

KANSAS FARMER

For the improvement  of the Farm and Home

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HUTCHINSON HAS GOOD WEEK

Show of Cattle and Hogs Best Ever Made at Fair

THE Kansas State Fair drew a week of ideal weather. There is nothing a fair management dreads more than bad weather during fair time. The grounds of the big Hutchinson fair were never more attractive in appearance. As a result of the abundant rains of August the grass was as green as in the spring and all the flowers and shrubs of various kinds were in fine condition and added much to the landscape features. The grounds are well laid out to facilitate the staging of a big fair. The arrangement of the various buildings and improvements makes it possible for visitors to study the different sections in regular logical order and there is seldom any serious congestion at any one point.

The new agricultural building is the one big improvement of the past year. It is a large brick and tile structure, floored with cement and exceptionally well lighted. It occupies a prominent place near the main entrance, and is the first building to attract attention as one approaches the grounds. At the time of this year's fair the military camp of a battalion of the Second Kansas Infantry occupied several acres just to the north of this building. Leading from the agricultural building east to the grandstand is a cement walk some forty or fifty feet wide. This forms the main thoroughfare, and on the big day—Thursday—was taxed to the limit by people passing from the agricultural building to other parts of the grounds. The eating places and many of the amusement concessions are located along the side of this broad walk.

The visitor naturally stops at this first prominent building on entering the grounds. While its primary purpose is to house agricultural exhibits of all kinds, it was used this year for several educational exhibits. The building was comfortably filled, and one was impressed with the appropriateness of the arrangement. The school exhibit of Reno County has for several years been an interesting feature of the state fair and this exhibit occupied a large space in the agricultural building. For the first time nearly every school in the county furnished an exhibit. Although fully twice as much space as usual was furnished to S. P. Rowland, superintendent of this department, he could not place all the material sent in. A study of the exhibit revealed the practical character of the school work done in this county.

The Arkansas Valley is noted for its fine orchards. No better apples are grown anywhere in the country than in this locality. One big Reno County exhibitor of fancy Jonathans in boxes had prominently displayed the statement that he had produced 150,000 bushels of quality apples this year. The Arkansas Valley growers were not without competition in the showing of apples and other fruit. In the apple section we noted that T. P. Van Orsdal, of Shawnee County, drew a number of blue ribbons on plate exhibits.

In the farm crops section of the agri-

cultural building there was a large display of agricultural products, although nowhere near as much as would have been shown if weather conditions had been more favorable during the early part of the season. Quite naturally wheat was especially prominent in this section. There were twenty-five samples in the half-bushel class, all but two being hard winter wheat. A twenty-five-dollar prize was up for the best bushel of winter wheat and this brought out ten high-quality entries. The man winning first in this class had never shown before, and prepared and entered this exhibit only at the earnest solicitation of some of his friends. He did not realize the quality of the wheat he had grown, and it almost took his breath away when he learned he had won the grand prize for the best bushel of hard winter wheat shown.

Ordinarily there are a good many collective county exhibits at this fair, but this year only four were shown. The space allotted to these exhibits was of such a character as to enable the exhibitors to put them up in an even more attractive manner than at the Kansas Free Fair, where the four exhibits entered had been shown the week previous. The men in charge of the Jewell County exhibit had apparently profited by their Topeka experience and put their exhibit up in such fine shape that they were able to win out over the Leavenworth County exhibit, which took first place the week before. Franklin County was awarded third place, and Jefferson fourth.

There were very few exhibits of corn. Corn is unusually late this year, and this probably accounts in some measure for the small showing. Liberal prizes are offered for the various sorghums, both grain and forage. The southwest part of the state is exceptionally well adapted to growing these crops, and we were disappointed that large exhibits of

kafir, milo, and feterita were not shown. There were some very creditable samples of the sorghums on exhibition, but in view of their importance such exhibits should have been the outstanding feature of the agricultural section.

Fully one-fourth of the agricultural building was occupied by an educational display made by the Federal Department of Agriculture. This covered practically every activity of this department of our Government. There were models of different kinds of roads, models of farm buildings of various kinds, forestry products, and many educational charts of special importance at the present time because of the necessity for conserving our food resources to the fullest extent possible. This exhibit represented an immense amount of planning and labor and visitors lingered long as they passed up and down the aisles.

The live stock department of this fair was better filled than at any previous exhibition. The cattle show was probably the best ever made at Hutchinson. In fact in some ways the Hereford show was stronger than any exhibition of this breed ever made anywhere in Kansas. It was not especially in numbers that it excelled other Kansas shows. There were 114 animals of the Hereford breed in the competition. The entries were so uniform in quality and fitting that in some of the classes where the numbers ranged from eight to fifteen it was difficult for the bystanders to tell which was the tail end of the class after the judge had arranged them in the order of their merit. The Texas and Mississippi exhibitors carried off a large portion of the first place awards. Four of the championships went to Merkel, of Texas, and the other two to the Mississippi herd. There were also strong herds shown from Kansas, Missouri and Oklahoma. A tent was provided for showing cattle, but in the Hereford classes it was several times necessary

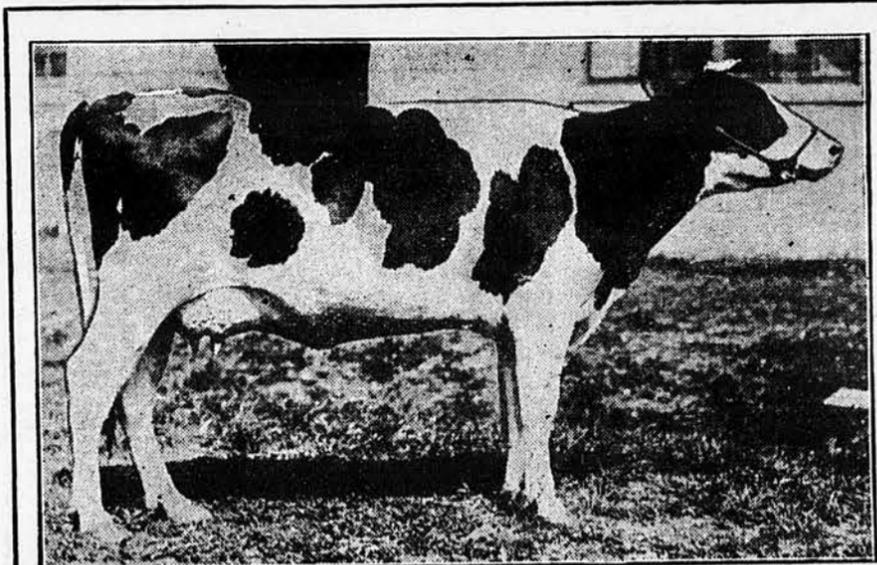
to get the animals out in the clear in order to have enough room.

Eight herds of Shorthorn cattle were shown, being practically the same show as at Topeka the week before. Kansas, Iowa, and Nebraska furnished the competing herds in this breed. As in the Herefords, there was an absence of any tail-end exhibits. The first and second places were fairly well distributed among the different herds, which is an indication of the uniform quality of the show. Achenbach Brothers, of Kansas, and Albert Hultine made the Polled Durham show. These herds are well matched and have met in the show ring many times. These hornless Shorthorns are increasing in popularity, and in all probability it will not be many years until they will rank with the Shorthorns in the number of exhibitors showing at our big fairs. The herds of H. & G. Croft, of Bluff City, Kansas, and Swiggart & Son, of Salisbury, Missouri, battled for the honors in the Galloway section. These two exhibitors have long been recognized as close to the front in the breeding and showing of these shaggy, black, beefy cattle so well adapted to range conditions. In these herds this year were found some as well fitted animals of the breed as have ever been shown.

Four well-balanced herds represented the Angus breed, one each from the states of Kansas, Nebraska, Oklahoma, and Texas. It was not so many years ago that it was necessary to go to some of the states farther east in order to see a show of really high-class Angus cattle. Times have changed, however, as was evidenced by the character of the animals shown at this fair. There were some changes in the judgments of the Kansas Free Fair where the same herds had competed the week before. The Texas entry which won the junior and grand championship at Topeka had to be content with the junior championship at Hutchinson, the grand championship being awarded to the aged cow, Twinburn Pride 5th. The Cowden herd, of Texas, however, carried off seven first prizes and three championships.

Two very good hog barns have been built at Hutchinson since last year, and a much larger hog show could have been comfortably handled. There were in all about 540 hogs on exhibition. The strongest showing was made by the Duroc-Jersey breed. We noticed several new names among the exhibitors winning blue ribbons, among these being B. R. Anderson, of McPherson, and W. W. Trumbo, of Peabody. Mr. Trumbo succeeded in getting first on his boar, Constructor Junior, and also reserve junior championship. The names of the exhibitors and the awards of the live stock show are given in full on another page of this issue.

The poultry department, which will have a choice location in one of the ornate buildings of Electric Park, Kansas City, during American Royal week, already has sufficient entries to fill the capacity, and probably the number of entries from any one exhibitor will be limited. Uniform coops are provided.



NELLIE SEGIS PONTIAC, GRAND CHAMPION HOLSTEIN COW AT TOPEKA AND HUTCHINSON.—SHOWN BY THE GALLOWAY-MESSER FARM, WATERLOO, IOWA

FARM POWER

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



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THE simplest and easiest manner for storing perishable products such as potatoes and other root crops, fruits, etc., is to build a concrete storage cellar. This year more than ever before it is imperative from the standpoint not only of the grower but of the country at large, that every farmer provide suitable storage facilities on the farm for fruits and vegetables.

\$700,000,000 Wasted Annually

That's the enormous amount in actual money that is wasted in the United States—foodstuffs, farm produce, etc. It is a conservative estimate. Thousands of dollars of waste in the potato crop alone can be saved by providing suitable storage. The tremendous annual loss in vegetables and fruits cannot continue now that the country is aroused to the importance of food conservation.

Concrete Storage Cellar

The advantage of a concrete storage cellar to the farmer is that the crop can be marketed when prices are right. To the nation it means the conservation of food that heretofore has been thrown on a glutted market at harvest time. Keep enough produce for home use and have a large quantity to market later or when prices are higher and the country needs it. When stored in a concrete cellar apples and potatoes can be kept in good condition from one season's end to the beginning of the next. Now is the time to build a concrete storage cellar and no better material can be found than

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IN 1915 and 1916 tractor plowing demonstrations were conducted during the month of July at Hutchinson, Kansas. At these demonstrations hundreds of acres of wheat land were plowed earlier and deeper than usual. A number of men who furnished land for the demonstrations wished to have it written into the agreement that it should be plowed to a specified depth in excess of the depth they ordinarily plowed their land.

It is of considerable interest to learn how this land responded to this work in such a season as 1916 and 1917. In August, A. L. Sponsler, secretary of the Kansas State Fair, was asked about the condition of the wheat on this land. He replied by stating that he had observed the wheat growing on the land in the demonstration fields and noted that it had produced a better growth on this deep early plowing than average wheat in the county. It had come on in good shape in spite of the dry fall and winter, stood all the punishment to which wheat is subjected, and made a fine yield. While Mr. Sponsler did not have detailed threshing reports, his estimate was that the wheat on this land had yielded at the rate of about thirty bushels to the acre. Following this statement from Mr. Sponsler, a more careful canvass was made of the wheat fields within a radius of ten miles of Hutchinson and this revealed the fact that the wheat on the land used for the plowing demonstration last year had produced five bushels more to the acre than wheat had averaged in this area. This is strong evidence in favor of deep, early plowing for wheat. Year in and year out, wheat on such plowing will produce larger yields than on land less carefully prepared.

American Tractors in France

In the tremendous European struggle that has just ended its third year, it is interesting to know that agriculture has come to occupy its "place in the sun," as the old saying goes. Americans have been under the impression that all the people of Europe were engaged chiefly in manufacturing guns, making munitions and such materials as destroy human lives and cause devastation.

But such is not the case, for France as well as the other countries during this time have also devoted their time to tilling every available spot of land for the production of more foodstuffs, and they have not adopted the methods which are gradually disappearing, namely, the horse and horse-drawn plow, but they have adopted the tractor, and the American tractor at that.

This interesting picture illustrated herewith shows the American-made tractor in the French fields with German prisoners at work. The same machine is popular in the United States, where it is well known in practically every farm community.

With cheerful philosophy and sober industriousness the German prisoners in France are settling down to making the best of things. From the standpoint of the government and those who direct the nation's energies in wealth produc-

tion, the important thing about prisoners is the work they can do. In France, a careful system has been evolved to sort out every kind of artisan, craftsman and laborer and assign him where his abilities are most in demand. The farm laborer has been sent to the farming districts, the stone mason and the carpenter to the towns and villages in need of reconstruction. France has been singularly fortunate in that most of her prisoners are Germans, who are among the best all-round workers in the world. A large number of German prisoners have had a technical training or possess special skill in addition to the patient, plodding, persevering temperament born of centuries of Teuton domination over the people.

Keep Wheels Aligned

Unquestionably, there is not a motorist in the land who is not desirous of obtaining the greatest possible service out of his tires, and especially is this true of the "average" car owner, writes Albert Marple in the current issue of American Motorist. Yet it is conservatively estimated that at least half of the cars on the roads these days have wheels that are more or less out of alignment—a condition which tends to shorten tire life.

In the majority of the cases where the wheels are out of alignment it is probable that the car owners are not aware of the fact; in others the owners may believe that the wheels are slightly out of line, but they do not wish to go to the expense and trouble of having them straightened, while there are some instances where the owners do not "give a rip," as the saying goes, whether the wheels are "in" or "out," so long as their cars run and the guaranteed mileage is secured out of the tires.

There is probably no abuse to which the casing can be subjected that will prove so injurious to it as will the very act of running it on a wheel that is out of alignment. The experienced motorist knows that when the tire that is "out" is run a certain grinding action is set up between the casing and the road surface which in time produces excessive wear and tear.

V. M. Emmert, agricultural agent of McPherson County, tells of finding a man using a dust collector on the air intake of his tractor. In three hours' work he collected a handful of dust. Think what it means to the efficiency of an engine and the time that it will last, to keep all of this dust out of the carbureter and cylinders.

In using a pit silo, the most important question to consider is how to get the silage out of the pit. A cheap derrick may be constructed to take care of this if but one silo is to be filled. A pulley attached to this derrick pulls up a large iron bucket. The derrick is so constructed that it will deposit the bucket in a wagon or a trough outside of the silo. If several silos are grouped together an overhead track similar to that used for hay may be built.



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NON-PARTISAN LEAGUE

"Farming the farmers" has been a popular pastime for a good many years. There is now being exploited in Kansas a movement known as the Non-Partisan League. The promoters of this new project are learning, however, that Kansas farmers are blessed with a good bump of caution and do a little thinking and investigating for themselves before falling for the clever scheme of these organizers from other states. Our advice to Kansas farmers is to steer clear of this movement which can only result in weakening the influence of the two splendid farmers' organizations now so effectually representing farm activities in the state.

The man at the head of the Non-Partisan League is accused by the leading papers of the Northwest of being an I. W. W. and even worse. It is stated that he attended an I. W. W. convention in Kansas City in July. He has succeeded in getting about two million dollars of money from farmers of the Northwest, and it is claimed that this is deposited in his own name and subject to his draft only. One of the smooth-tongued organizers for this movement called on Maurice McAuliffe, president of the Farmers' Union, lately. We should have enjoyed being present at this interview. The Farmers' Union of Nebraska, through its executive committee, has gone on record against the visit of this organizer, Mr. McAuliffe wrote a most forceful editorial warning Farmers' Union members of the state against the movement. He takes the stand that the league is in reality a movement to destroy the really effective farmers' organizations now in existence and refers at some length to the Farmers' Alliance, which was destroyed through the attempt to turn it into a political organization. Mr. McAuliffe said in part:

"If the founders and promoters of the Non-Partisan League have no purpose in view but to get the farmers organized politically to control the legislature, why didn't they go to work in South Dakota or Minnesota? The farmers of either of the above states are as much or more in need of legislative reforms than are the farmers of Kansas. And by the way, Kansas farmers have been doing fairly well along legislative lines.

"The founders of the Non-Partisan League are not working for the welfare of the farmers—the very opposite is true. They are working for the destruction of the farmers' organizations that are now endangering the well being and safety of the commercial autocrats who are waxing fat by bleeding both consumers and producers.

"It looks to me very much as though the fellows who came to Kansas from Minnesota or Dakota or any of the other states to promote a farmers' political organization here in Kansas have an immense amount of gall and nerve.

"If the farmers of Kansas want to form a political organization they have sense enough and ability here at home to do it without the assistance of a lot of important promoters who are working for the money they can get out of it.

"This Minnesota gentleman who called on me told me that the Non-Partisan League was going to put 100 organizers to work in Kansas right away, and I suppose they are all smooth guys that have no interest in the Kansas farmers other than to get \$16 initiation fee and \$2.50 subscription to a paper out of each one of them they can get to join the league."

We feel that Kansas farmers are justified in making the most careful investigation before going into this political organization and paying the \$16 initiation fee demanded. Far better rally to the support of the existing organizations.

LICENSING PACKING HOUSES

The Food Administration has announced the following conference with

the live stock representatives September 5 and 6 that plans will be made for supervising the packing industry through a system of licensing until the close of the war. Such control cannot increase the amount of live stock in the country, but the Government should be able to learn whether there have been unnecessary expenses in distributing meat products. We hope something definite will develop as to the real causes of the violent fluctuations in live stock prices on our central markets.

With the Government in charge, packing house operators most assuredly cannot undertake to influence the prices paid for live stock without being found out. Live stock men have for years felt certain that a few concerns were in a position to control prices, and have complained bitterly of this condition. It has been stated that there will be no attempt made to regulate live stock prices, but federal control of the packing industry will certainly have some influence on the price situation. It ought to result in greater uniformity of prices. A real supervision will either convict or exonerate the packers of the charges that have been made and may result in some real reforms in the future methods of handling the business of slaughtering and distributing meat animals.

COST OF WHEAT PRODUCTION

What does it actually cost to grow wheat? The cost of producing any crop is variable due to uncertainties of the season, so the results based on a single year's figures are often misleading. Prof. L. E. Call, of the Agricultural College, has done some figuring on the cost of growing wheat, and we submit his results, bring them up to date by increasing the cost of seed up to \$2.50 a bushel, which was the prevailing price this season. The items are as follows: Plowing, \$1.38 an acre; harrowing, 33 cents; double disking, 73 cents; drilling, 37 cents; seed, \$2.50; twine, 25 cents; harvesting, 54 cents; shocking, 24 cents; stacking, 84 cents; threshing, 78 cents; hauling crop to market, 42 cents; interest on investment, \$2.40; taxes, 25 cents—a total of \$11.04. The total return from a fourteen-bushel crop under the Government guarantee of two dollars a bushel would be \$28. This leaves a net return of \$16.96 an acre.

Can we not have some figures from farmers who have kept accurate accounts of the cost of growing and marketing wheat?

Some people are saying that wheat is being withheld from market because farmers are dissatisfied with the Government price. Whatever the cause, very few mills are being able to secure enough wheat to operate on full time. Undoubtedly there are farmers who cannot break even in selling their wheat at the price fixed by the commission. The cost of producing the most expensive bushel, however, cannot be taken as a measure in fixing a price on the whole production. It is a most novel experience to know exactly what wheat will bring for a considerable period ahead and this knowledge undoubtedly accounts in a considerable measure for the slowness with which wheat is moving to market. Knowing that it will bring just as much in a week or a month as at the present time, it is but natural to delay marketing until the most convenient time. A big acreage of wheat is being sown and due to shortage of labor it is calling for the most strenuous effort to get the work done properly and at the right season. The thing most to be feared is a freight congestion later in the year. The railroads have greatly increased the freight movement through co-operative efforts in routing cars and getting maximum loading, but notwithstanding their most strenuous efforts, we are likely to have a serious freight tie-up this winter. We are mobilizing great armies in our many and widely distributed training camps, and enormous quantities of military supplies

must be kept moving. Cold weather always reduces the efficiency of motive power. We may face a most serious condition in a few months and be unable to market products and get needed supplies because of lack of cars and transportation facilities. Due to these facts, it would seem the part of wisdom to figure as far ahead as possible on the handling of either products sold or purchased which require railroad transportation.

Prof. George E. Bray, industrial engineer in the extension division of the Agricultural College, died September 1 in a Minnesota hospital, after a brief illness. He had been connected with the college for a number of years. In his work in the home study correspondence courses Professor Bray became well known throughout the country as the first man in the United States to introduce correspondence shop courses of study in the state and federal prisons. The home-made drier for fruit and vegetables, plans of which were given in KANSAS FARMER of June 23, was the product of Mr. Bray's energy and ingenuity. This simple but effective drier was designed and thoroughly tested by Mr. Bray and given to the public just before his fatal illness. When the news of Professor Bray's death came, one of his fellow workers, who for years had been closely associated with him, said this:

"Those of us who knew Professor Bray intimately feel that his splendid personality and sterling qualities influenced for good hundreds of men and women with whom he came into contact. His written work will continue to be of high value, but after all perhaps his greatest service was a result of his direct contact with men and women."

Next week the American Royal Stock Show will be held in Kansas City, Missouri, at Electric Park. This show will be an exhibition of the four breeds of beef cattle only: Shorthorns, Herefords, Angus and Galloway. Horse shows will be given evenings, and there will be a poultry show. The superintendent of the poultry department has already engaged three judges of national reputation. It is hard to become reconciled to an American Royal away from the stock yards. We hope some definite arrangement can be made for housing this great exhibition of live stock so that it can truly represent these interests in the great Southwest.

Beginning with the present college year, Dr. J. D. Walters, of the Kansas Agricultural College, becomes professor emeritus and retires from active class work after a continuous service of forty-one years. Doctor Walters enjoys the unique distinction of knowing personally every member of forty-odd classes that have graduated from the institution during his long period of service. He came to the Agricultural College during the trying times of its early career and has always acted as a constructive, stabilizing force in its remarkable growth and development during these years. Faculty, graduates, former students, and all who have ever been connected with the institution and who learned to know and appreciate Doctor Walters, will rejoice in this honor conferred upon him by the Board of Administration. We do not expect him to go into seclusion now that he has been relieved from active service. He will undoubtedly give occasional lectures in the department of architecture, and he can be depended upon as ever to sympathetically meet and advise undergraduates or greet the returning alumnus.

DAIRY CATTLE AT HUTCHINSON

There were eighty-five cattle in the barn devoted to the showing of dairy animals at the Kansas State Fair. This is probably the strongest dairy cattle show ever made at Hutchinson. Here also there were some changes made from the

Topeka placings. The Chestnut bull which won his first great victory by being made the grand champion at the 1915 show in Topeka, which was the biggest show of dairy cattle ever made in Kansas, was compelled to take third place in class at the Kansas State Fair. He had won the championship in Topeka against the same entries, but at Hutchinson he showed very lame and probably for that reason did not impress the judge as he would if he had been in perfect condition. The Jerseys shown by the White City Jersey Farm, of Tulsa, Oklahoma, aroused the admiration of every lover of dairy cattle. Henry Stebbins, the manager of this farm, deserves a great deal of credit for his constructive work in building up this herd to its present high standard of excellence. After the awards had all been made, the judge remarked that this farm had shown only one weak entry. Of the three aged cows shown, each one had a blue ribbon to its credit as a result of this year's showing, each time the award being made by a dairy cattle judge of high standing. The same uniformity appeared in some of the heifer classes where several entries were made. The other Jersey cattle shown were from working herds. Some of them showed good Jersey type, but they could hardly compete with animals so carefully selected and polished up for the show as were the entries of the White City Jersey Farm. Judge Graves, who placed the awards, has been himself a breeder of Jersey cattle for a great many years, and he took pains to explain to some of these beginners in the breed the points they should look for in selecting their animals, and even went to the extent of telling exactly what kind of a herd sire should be used on females of such type as they were showing. Beginners in a new breed of stock should be very appreciative of such consideration on the part of a judge. The only Ayrshires shown were those entered by William Galloway. The feature of the Ayrshire show was the presence of J. G. Watson, the field representative of the Ayrshire Record Association. Mr. Watson is a great booster for this breed. He assisted in showing the cattle and was on hand for most of the week, talking up his chosen breed at every opportunity.

The usual carnival company occupied a prominent place on the Hutchinson grounds. The Governor made a short speech to the people in the grandstand following his review of the troops, but the noise in the motordrome nearby was so great that many people had difficulty in hearing him. While the prominence given such amusements might be criticized, the management of the Kansas State Fair deserves great credit for the amusement and entertainment features given in front of the grandstand in the afternoon and evening. During the races a skilled acrobatic company furnished entertainment between heats. There was something going on all the time. Each afternoon the National Guard battalion gave an exhibition drill, and on Tuesday they were formally reviewed by the Governor and his staff. Some very fine aeroplane flights were given during the afternoons of each day. The evening performance consisted of one of the most spectacular pyrotechnic displays ever given in Kansas. This consisted of a representation in fire of the destruction of a village in France, all sorts of modern warfare imitations being demonstrated. There were aeroplanes shooting bombs of fire, and as a grand finale the United States was brought into the game and the Allies won out in the mimic warfare which was so vividly portrayed. The day attendance at the fair was rather disappointing to the management, but there could be no such complaint of the grandstand attendance for the evening performance. The seats were crowded to their fullest capacity and people seemed to feel that they had received the worth of their money.

SUCCESSFUL BEE CLUB

Aim of Club is to Make Better Beekeepers of its Members

By J. H. MERRILL, K. S. A. C.

DURING the winter of 1916-17 the Lyon County Boys' and Girls' Bee Club was organized by Charles A. Boyle, district club leader, and Hubert L. Popenoe, agricultural agent for this Kansas county.

Mr. Boyle's purpose in organizing the club was not to increase the number of beekeepers but to make better beekeepers out of those already possessing bees. Instead of having one or two neglected and almost forgotten boxes of bees hidden away somewhere under a tree, it was planned to give these bees a new home, decent treatment, and make them pay their own way, thus justifying their existence.

Modern equipment was one of the first things to be secured and the members soon found that more favorable prices were offered them when buying a number of articles than if purchased by individuals. Nearly all hive parts can be purchased much cheaper when secured as "in the flat" rather than when mailed together. Furthermore, there is a considerable saving in freight.

When it came to purchasing equipment it was found that this would be divided into two classes—one to include large articles to be used in common, and the other individual equipment which each club member should own.

In the first class were included text and reference books on beekeeping, as well as the leading magazines. The tools which were necessary for assembling hive parts were also included in this class. Some of the members were to raise extracted honey, and since an extractor was rather expensive for an individual club member to own, the club purchased the extractor and all equipment necessary for extracting.

Each club member was urged to subscribe to one bee journal and, if possible, secure a text book. Gloves, veils, smokers, hive tools, hives and hive parts—including supers, frames, sections, foundation, bee escape boards, and queen excluders—were secured by each member for his individual needs.

Since the object was to make better beekeepers rather than more beekeepers, it was planned to have each member make his start with a colony of bees, secured, if possible, from his parents. By so doing it was intended to make a practical demonstration, not only to his parents but to others, of just what could be accomplished by using modern methods and intelligent care in handling the bees.

The club opened in the spring of 1917 with twelve members. Four of these were obliged to discontinue but the other eight remained enthusiastic members throughout the season.

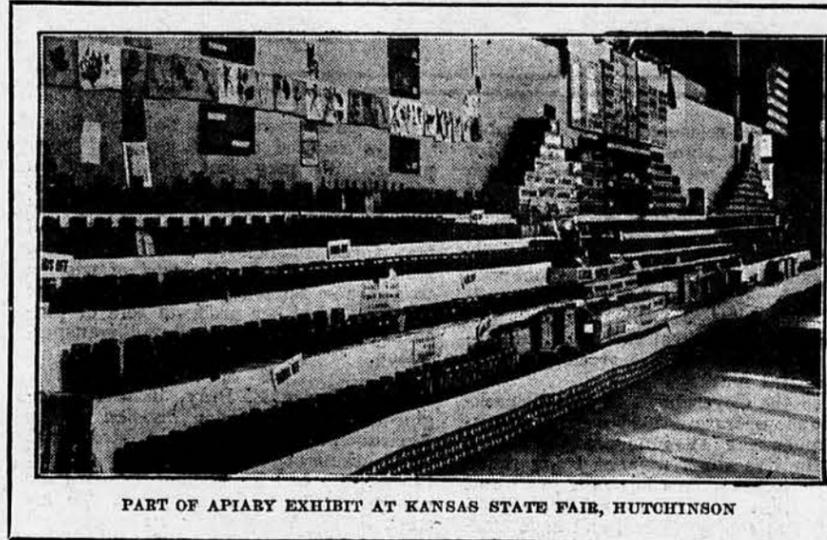
After organizing and registering, the policy which the club was to pursue was adopted. The amount of supplies which were to be used was estimated and the order placed.

In order that an exact rating should be given to each member, the hive with which he had started was examined and a value placed upon it. In making this examination the condition and strength of each colony, the race, age, and prolificness of the queen, and the condition of the hive and hive parts were all taken into consideration. If a colony was in an old box hive, which would later have to be changed to a better hive, it received a lower valuation than it would have had it been already in a modern hive.

After each colony had been appraised and its value recorded, the club was ready to begin work. Mr. Boyle and Mr. Popenoe demonstrated how the hive parts should be put together, how many nails to use and where they should be used, and how to paint them so as to have all a uniform color.

Those who were going to raise extracted honey learned how to make extracting frames and how to fasten in the wax foundation which was used to secure straight comb. Those who were interested in producing comb honey learned how to make the sections and how to fasten in the little sheets of wax or "starters."

Those who had colonies in old boxes were shown how to transfer them to modern hives with movable frames. After the bees are housed in their new homes they could be examined at any



PART OF APIARY EXHIBIT AT KANSAS STATE FAIR, HUTCHINSON

time because the frames in these hives could be removed at will.

As the work progressed new problems constantly presented themselves and Mr. Boyle and Mr. Popenoe were kept busy throughout the summer answering questions and solving problems.

After the honey season is over there is to be another valuation to determine the standing of each club member. Each contestant must submit an itemized account of all his expenses and receipts. Then his colonies will be examined along the following line: (1) The number of colonies; (2) the strength of each colony; (3) the number of bees in each colony; (4) amount of stores; (5) improvement in the race of the bees; and (6) possibilities of wintering.

The standing of each contestant is determined by adding the total receipts to the value of the colonies, minus the total expenses.

The interest and enthusiasm which the work has aroused can be shown in no better way than by quoting part of a letter from Mr. Boyle:

"Of the eight members who are continuing the work, three are living in towns and the other five on farms. Two of these living in towns depend entirely upon the flight of the bees from the home yard for the gathering of the crop while one has moved to the new swarm, cast off this spring, to the country for better bee pasture. The three living in towns have all worked for comb (section) honey, each having, at this date, July 24, one super of sections filled and the bees working on another.

"Two of the members living in the country have worked mostly for comb (section) honey and are meeting with fair success. One has put on a super of extracting frames with full sheets of foundation to give a trial.

"Farm work has prevented these boys from giving the bees the needed amount of care; however, as the bees gather and store the honey and the members see

these stores increasing, their interest has been greatly quickened.

"Those mentioned have had hives with movable frames and they have been able to make examinations when necessary. This has been a distinct advantage in many ways.

"The other three members have had hives, some with and some without frames, but in all these hives the combs have been built according to the fancy of the bees, which has resulted in crooked combs, making it impossible to examine the contents of the hive or know the condition of the queen or of the brood rearing except from external indications.

"Hives of ten frames with full sheets of foundation were put above those eight frame hives and the bees invited and expected to go up and occupy them for brood-rearing so that a queen excluder might have been placed between these bodies and the transfer made without much trouble.

"The bees thought differently and in each case they filled the hive body with fine new honey and have begun on other supers set above or under these full bodies. Some other plan must be adopted this fall or next spring for transferring these swarms.

"One of the boys has caught three stray swarms besides the smaller natural increase. The last one of the caught swarms was a very large one and came to him one Friday evening and was put into a hive body made of two supers nailed together and frames with full sheets of foundation given. In just eight days the swarm had the combs well drawn out and more than half filled with honey.

"In another place, one of the first swarms caught was put into a new hive body which the bees soon filled to overflowing; a new super was given them and they filled that, when another super was given and that is pretty well filled with nice white honey from sweet clover and alfalfa. Another swarm, much

later, was put into an eight-frame body, without frames or foundation, as no other hive was ready and before any help came the swarm had nearly filled the body with comb and honey, so a second eight-frame hive body, with full sheets of foundation, was given, and this is nearly filled at this time. We expect them to gather more from the alfalfa, as this crop is doing well in this locality.

"The crop already gathered, and the prospect of more this season, has so stimulated the boys that one has said he expects to increase to fifteen colonies next year and make that the maximum for his place.

"Another expects to sow more sweet clover for pasture, and his father says they will encourage him in making beekeeping a profitable part of the farm business.

"Another has the support of his parents in undertaking to develop this as a profitable side line to the general farm operations they have engaged in.

"It is the intention of many of these members to requeen most of the hives with pure Italian queens (untested) this fall. These will be secured from one of our best and most reliable breeders of the state. We feel that more can be accomplished by securing good stock in beekeeping just as in other lines of farm work. Another year many will try raising their own queens in some one of the various ways used by good beekeepers.

"With all these farm boys and girls there is a growing interest and a desire to do better beekeeping than has been done in their locality heretofore and see that the ability of the bee is used to aid them in securing more of nature's sweets for home use and then have some to sell.

"A fall farm products show is being planned for the early part of November, at which time we hope to be able to give additional evidence of the profitability of this particular activity for the farm boy and girl."

EDITOR'S NOTE.—Two members of this pioneer boys' and girls' bee club made exhibits at the Kansas Free Fair. The apiary department was in charge of J. W. Priddy, and he had arranged and shelved his exhibit of comb and strained honey and the different strains of bees in a tasteful manner. This is a department of the fair that could well be greatly enlarged. The extending of the club work among the boys and girls will serve to increase interest in bees and should result in the production of a great deal of this valuable food.

In the showing at Topeka, Tom Stratton, a member of the Lyon County Club, won the second prize of three dollars in cash on white comb honey. This prize was won in open competition with men from all parts of the state, the first place being given to O. A. Keene, secretary of the State Beekeepers' Association. Edward Palmer, the other Lyon County Club member, won second place on white strained honey.

Spencer A. Lloyd, an Iola boy, presented an interesting exhibit in the apiary department, showing the different stages in the filling of the comb with honey, beginning with the empty comb and finishing with the comb filled and capped.

The display of food products in which honey had been used instead of sugar for sweetening, interested many housewives, particularly at this time, in view of the high cost of sugar. Raisin pie, cookies, cake, jelly, conserve, preserves, and pineapple, peaches, and plums canned in honey, and honey tomato butter were among these foods.

The splendid results obtained by this Lyon County club should serve to interest other boys and girls in bee work. Those who become interested in bee work find it most fascinating as well as profitable. In order to be ready for next year's harvest of honey, the bees and the necessary equipment should be obtained this fall. We hope to hear of other bee clubs being organized over the state. Prof. J. H. Merrill, of the entomological department of the agricultural college at Manhattan, is in charge of the apiary instruction and will gladly furnish the necessary help to those who wish to take up bee work.



BEE CLUB MEMBERS MAKING FIRST SPRING EXAMINATION OF HIVES

COMMON-SENSE ROAD MAKING

*Type of Roads For
Different Sections
Depend on Kind And
Amount of Traffic*

IN THE people's pavilion at the Kansas Free Fair one day was devoted to the subject of roads. On several evenings of the week there were also given motion picture films on roads. Kansas now has a state highway department and plans are being made to bring about a more systematic handling of the road-building work of the state.

Among the numerous good talks made on Good Roads Day in the pavilion, was one by W. S. Gearhart, state highway engineer.

"The type or types of road best adapted to Kansas conditions," said Mr. Gearhart, "is receiving serious consideration in many sections of the state, and the county officials and the big public-spirited road enthusiasts are attacking this problem in earnest.

"When a comprehensive system of one hundred to two hundred miles of main roads are to be improved in a county at one time, the types can be selected on a scientific economical basis after a traffic census has been taken on the different roads and the population and the property valuation along each road are known.

"The cost of road service is the first cost, plus the maintenance cost, plus the interest on the money invested, divided by the number of users; therefore, if the type is properly adapted to the traffic, the cost of service will be approximately the same on all types.

Every type of road has a value, or ability to render service, and a corresponding cost. For instance, if the average annual cost of an earth road, including first cost, the maintenance cost and interest on the money invested is \$250 per year and it carries an average traffic of one hundred vehicles per day, then the cost to the county per user is \$2.50 per year.

"Assuming that the average annual cost of a gravel road, including first cost, the maintenance cost and interest on the money invested, is \$750, and it carries an average traffic of three hundred vehicles per day, the cost to the county per user is \$2.50 per year.

"Assuming that the average annual cost of a concrete or brick road, including first cost, the maintenance cost and interest on the money invested, is \$1,500, and it carries an average traffic of 600 vehicles per day, then the cost to the county per user is again \$2.50 per year.

"When each road in a system has been properly designed, one type is as good as another; that is, an earth road or gravel road in the right place is as good as a concrete or brick road where a concrete or brick road is required, and on account of the difference in cost, a great deal better than a concrete or brick road where only an earth or gravel road is needed.

"The type of road used in each case should be selected as we would plan a sewer or tile drain system; that is, by using the size of tile or type of road surface required in each place to perform the function demanded of it. No one would consider using all four-inch or all sixteen-inch tile in a drainage or sewer system, and for the same reason no one type of road should be selected for a whole system of roads, unless each road in the system will probably carry approximately an equal amount of traffic.

"Many economies can be effected by building a comprehensive system of roads at one time and there is the further advantage of getting the roads sooner and enjoying them longer, but unfortunately there has been little consideration of this method of road improvement in Kansas. The adoption of such a system would mean the improvement of about ten per cent of the roads in a county within a period of about five years.

"When the piecemeal, one-road-at-a-time method is adopted for the improvement of a few main roads, we have an entirely different problem and it is now evident that this system will be used to build the main through roads connecting



EXHIBIT OF KANSAS GOOD ROADS ASSOCIATION AT KANSAS FREE FAIR, TOPEKA, AND KANSAS STATE FAIR, HUTCHINSON

the principal cities and market centers in Kansas, and as soon as these roads are completed they will be required to carry an enormous automobile and motor truck traffic and the county that overlooks this fact and builds a type of road not suited to this heavy traffic is sure to have a sad expensive experience.

"When the average daily traffic does not exceed one hundred to two hundred vehicles per day, no type of road can be more economically constructed and maintained than an earth road and no other type of road responds to intelligent direction more quickly or more satisfactorily.

"In order to economically maintain any type of road it is necessary to cut down the hills, fill up the low places, provide adequate drainage, protect the side ditches and build the bridges and culverts of concrete or stone.

"Regardless of the type of road to be constructed, the road should be built to permanent grade and the permanent drainage structures built large enough to carry the water and wide enough to safely carry the traffic. These improvements are of the most permanent character and should be made whether the road is to be surfaced at this time or not, for they will give the best possible earth road for the money invested and such an earth road can be more economically maintained by continuous dragging than any other.

"A well-built gravel road is probably the best cheap surfaced road that can be constructed in Kansas at this time and with reasonable maintenance will economically carry an average daily traffic of from two hundred to three hundred vehicles per day.

"Practically every county in the state has deposits of gravel suitable for road purposes if properly used, but unfortunately this type of construction has received little or no consideration except in five or six counties. Most of the gravel obtained from the rivers and much of the pit gravel does not contain a sufficient amount of binder to hold particles together when placed in a road. To such gravel from 15 to 25 per cent of good binder clay should be added.

"When the average daily traffic on a road exceeds three hundred to four hundred vehicles, or when there is reasonable grounds to believe that in a short time after the road is completed, like on a cross-state highway, it will carry a traffic exceeding this amount, asphaltic concrete, Portland cement concrete, or brick roads generally will be most economical when the first cost, interest on the investment, maintenance cost and the character of the service rendered are considered.

"Fortunately, Kansas has a large number of cement and brick plants, an abundance of good sand and cherts, and a reasonable amount of gravel and limestone suitable for these types of construction.

"Nature has provided the materials and the legislature has enacted the necessary laws and now it is up to the people to finance the roads if they want to pull Kansas out of the mud."

While only one day was devoted to this important subject in the people's pavilion, there was an exhibit in the agricultural building which proclaimed the gospel of good roads in a most effective manner throughout the week. This exhibit occupied twenty-five or thirty feet of wall space and was in charge of J. Frank Smith, secretary of the Kansas Good Roads Association. This strong organization has a large membership and good financial backing. It has undertaken a comprehensive campaign of education on the roads question and through this exhibit was able to present in the most striking manner the fundamental facts of road building and the relation of good roads to general agricultural prosperity. In staging this exhibit Mr. Smith had the co-operation of the State Highway Department, the Topeka Chamber of Commerce, the Topeka Automobile Club, and the engineering department of the Agricultural College. A series of models showing different types of roads were shown as well as types of bridge construction. There were also numerous photographs, maps, and charts, and some striking lessons were pointed out by cartoons which occupied a prominent place on the wall space. Educational literature on roads was distributed to thousands of people each day. It was simply impossible for visitors to pass this exhibit without pausing to study it in detail. Mr. Smith and his assistants were kept busy from morning till night answering questions and discussing the many phases of this subject which touches most closely all the people of the state.

The cut on this page shows a portion of this exhibit. The Kansas Good Roads Association has offices in Topeka, and Mr. Smith will gladly answer all questions bearing on roads and especially the administration of the new road legislation. A copy of the pamphlet entitled 'The Road Builder' will be sent free to anyone making request.

The exhibit is being shown at the Kansas State Fair in Hutchinson.

Silo-Filling Hints

It will soon be time to fill the silo. Some are filling already. This is one of the hurry-up jobs of the year. Ev-

erything should be made ready for a continuous run when cutting starts.

The cutter should be put in first class shape, special attention being given to the knives and knife heads. An extra set of knives should be on hand. The blower, fan and knives should run at the rated speed. Poor joints and a leaky blower mean more power and clogging. The cutter bar should be in good condition and the knives and bar properly adjusted to each other. If any extras are likely to be needed for the corn binder, they should be on hand.

Authorities agree that the nearer ripe the corn is, if it contains enough water to make good silage, the sweeter the silage will be and consequently the more palatable; also the greater the amount of digestible nutrient it will contain. Roughly speaking, a majority of the ears should be dented. When large quantities are to be cut it is necessary to begin before the corn is at its best, otherwise the last cut will be too ripe.

Short-cut silage means greater silo capacity, less air space, and if the corn is a little dry, less likelihood of spoiling. Short cutting also means reduced capacity of the machine and more power. If the stalks are coarse and woody the waste is greater than in long-cut silage. In fine-stalked corn that is very green there is less difference between the long and short cut.

When corn is very dry from being over-ripe or frozen, it is often necessary to apply water to the silage in order to make it keep. Enough water should be applied to moisten thoroughly the whole mass. There is little danger of applying too much water.

Roughly speaking it takes one and a half to two horsepower gas for every ton per hour of green corn cut one-half inch in length and blown thirty feet high. From this it will be seen that to cut ten tons an hour one-half inch long and blow into a silo thirty feet high will require approximately a fifteen or twenty horsepower gas engine. If the same amount per hour is cut one-fourth of an inch long it will require considerably more power.

Ford County farmers are willing to increase the wheat acreage of the county if seed and labor for harvesting next year's crop are assured. Enough seed was grown in the eastern part of the county to seed that section, but five or six carloads of this wheat were shipped out of the county early. John V. Heppler, emergency demonstration agent of Ford County, is working with the bankers and elevator men in an effort to supply seed where it is needed.

Kansas Farmer Dairy Club

How to Keep Records

AS MANY of the Dairy Club members are just beginning their year's records, we are using a sample milk record on this page to show how these should be made out. The record for each calendar month should be kept on a separate blank, and the number of pounds given each day recorded in the space at the right of the proper date. Spaces are provided for both morning and evening milkings. The record shown began with the evening of April 11 and so the number of pounds given at the first milking was entered in the lower half of the space numbered eleven. Business men usually balance their accounts and close all records on the last day of each month, and this is a good practice for us all.

The total amount of milk for the month is found by adding the numbers set down each day. For the percentage of butter fat the test of the sample sent to Manhattan the fifteenth of the month is used. If a record begins after the fifteenth, the test for the next month is used. A test of 3 per cent would mean that each hundred pounds of your cow's milk contained three pounds of butter fat, or that 3 per cent of each pound of milk was butter fat. The word "per cent" really means hundredths, so we may say 3 hundredths just as well as 3 per cent. It is convenient to write this .03. The amount of butter fat in the milk your cow gives for the month is found by multiplying the total amount of milk by the test expressed in hundredths, pointing off in the result obtained as many decimal places as you have in both the numbers you are multiplying. For instance, if the total amount of milk for the month was 477 pounds and the test 3.8 per cent, the total butter fat would be .038 times 477 pounds or 18.126 pounds.

The record here shown is one of last year's and the weights are given in pounds and fourths or eighths of pounds. This year all members use a scale graduated to tenths of a pound so that the fractions may be written decimally, making the addition easier.

The sample bottle sent in will be returned to you from Manhattan, but all the tests are mailed to us and sent out from this office, reaching members about the last of each month.

All records must begin October 1. If your cow is not giving milk at that time, start the feed record then and the

milk record as soon as you begin saving her milk after she freshens. The feed record is kept in the same way as the milk record, each day's ration being recorded under the proper headings on the right of the date. If some of the record blanks sent you are of heavy paper and others of lighter weight paper, tack a heavy one up in the barn each month to use in jotting down weights of milk. The milk should always be weighed and the weights recorded immediately after milking. Use the light weight record blanks for mailing. This will save postage and the lighter weight blanks are more convenient to mail, as they can be folded.

Be careful to write your figures plainly and not so lightly that they will become indistinct before the end of the month. Make careful copies of your milk and feed records at the end of each month and mail one copy of each to the Kansas Farmer Dairy Club, care of KANSAS FARMER, Topeka, Kansas, and one to your banker. These copies for mailing should be made out in ink, as in folding and handling the records pencil marks become blurred and hard to read. The records for each month should be sent to us and to your banker not later than the tenth of the following month. If there is anything you do not understand, write us at once and get it straightened out. Let's be business men and women.

Why not plan to have the cows of the dairy herd freshen in the fall? The breeding of cows during September, October, and the first half of November is not good practice, because cows bred at that time freshen in June, July, or the first part of August. At this time poor pasture, heat and flies cause rapid falling off of milk flow. The best time to have cows calve is in October and November, as they will then give the largest flow when prices for milk products are highest and they are nearly dry when hot weather comes. To calve at this time, cows must be bred between December 20 and February 20.

A good prepotent bull always builds up the production capacity of a dairy herd. Bulls have been known to sire heifers that produced from 100 to 150 pounds more butter fat in a year than their dams. A pure-bred sire with good production records back of him is always cheapest in the end.



No More Trouble With Stubborn Shade Rollers —If you use Hartshorn's

Think of the many times that you have stood at the window pulling the shade up or down—trying to make it stop where you wanted it to stop and always missing the spot by three or four inches—Think of the times when the shade jerked out of your hand and snapped clear to the top of the window—And then the thousand and one times when it refused altogether to budge.

You would never have had such trouble if you had used

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They are made with a wonderful spring of the most finely tempered steel. It is this spring that makes them wear for years,—that makes them roll the shade up smoothly and let it down evenly.

Your shades will last much longer with Hartshorn Rollers than with the ordinary kind. They protect the shade from tearing, cracking and ravelling. Ask for this famous shade roller by name—and get it—not some cheap imitation.

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*"Fling out, fling out, with cheer and shout,
To all the winds, Our Country's Banner;
Be every bar and every star
Displayed in full and glorious manner."* —Cole.



*"Long may it wave
O'er the land of the free
and the home of the
brave"*

The big demand, the scarcity of good dyes and the high price of cotton have made it hard to secure flags. We have been fortunate enough to secure a few high-grade printed flags 3 feet by 5 feet with canvas heading and brass grommets, colors fast.

**You May Have One of These Flags If You Act Promptly
HERE IS OUR OFFER**

For only \$1.50 we will enter your subscription or extend your subscription for one year and send you this beautiful flag, postpaid. Price a flag of this size and quality. You will then appreciate our splendid offer.

**Don't Delay—Send Your Order NOW, Before It Is Too Late
FLAG OFFER BLANK**

Name..... R. F. D.....
Postoffice..... State.....
DESK D, KANSAS FARMER, TOPEKA

Kansas Farmer Dairy Club

Name of Contestant John Mann Name of Cow Ruby
Postoffice Dove R. R. D. 2 R. F. D. 2
For Month Ending April 30, 1916

Milk Record

DAY	TIME	DAY	Brought Forward	DAY	Brought Forward	DAY	Brought Forward	DAY	Brought Forward	
				77 1/4		249 1/2		425 3/8		
1	A M	8		12	22	13 1/4	20	13 1/4		
	P M			12		13 1/4		13 1/4		
2	A M	9		12	23	13 1/4	30	14		
	P M			12		12 3/4		11		
3	A M	10		11 3/4	24	13 3/4	31			
	P M			13 1/2		13 1/4				
4	A M	11	10	12 3/4	25	13 1/4				
	P M			13 1/4		11				
5	A M	12	10	12 1/4	26	12 3/4				
	P M			11 1/4		12 3/4				
6	A M	13	11 1/4	12	27	11				
	P M			11 1/4		11				
7	A M	14	11 3/4	10 1/4	28	13 3/4				
	P M			11 3/4		11 1/4				
Total Carried Forward			77 1/4	249 1/2			425 3/8			Total Milk 477 3/8
										Per Cent Butter Fat 3.8
										Total Butter Fat 18.14

SAMPLE MILK SHEET SHOWING HOW TO KEEP RECORD

READ KANSAS FARMER'S CLASSIFIED ADVERTISING PAGE FOR READY BARGAINS

EDISON'S VERY LATEST AMBEROLA!



NOT A PENNY DOWN!
The Wonderful New Phonograph with the Permanent Diamond Point

This is the famous Diamond Amberola, which, in numerous competitive comparisons, has won unanimous verdicts of superiority over well-known talking machines that sell at three and four times the price of the Amberola. These verdicts were rendered by thousands of phonograph experts and were absolutely

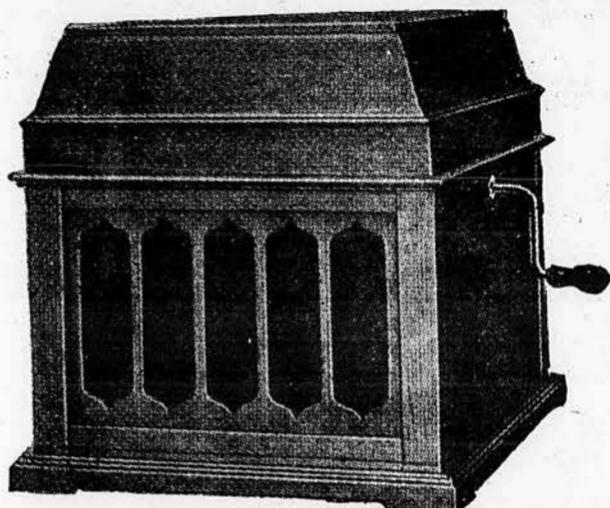
unprejudiced. The instruments were played behind a curtain and the curtain was not raised until after ballots had been taken. No one knew the names of the instruments. The only voted as to which tone was better, No. 1 or No. 2.

Your Home Needs Good Music

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Clearing Country Roads for Action

WAR has suddenly forced the farm to take rank with the packing house, the munitions plant, the steel mill and other industries, as a factor of supreme importance in the service of this country.

No manufacturer in these modern days, when time counts for so much, would think of establishing a factory out in the country without first determining the length of the haul and then reducing hauling time and cost of hauling power to the lowest point possible by removing the obstacles of bad roads. Supplies from the farm to millions of consumers at home and to our troops abroad must first travel over the country road.

Clearing the roads for action doesn't mean some other road; it means YOUR road, if your community is going to do its bit not only in war but in preparing for the greater activities of peace which are to come.

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- No Mud—No Dust
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By building hard and durable smooth concrete roads, time wasted in dust, ruts and mudholes may be used on the farm for crop production.

Be sure you know what a concrete road is. Concrete is made of portland cement, sand and pebbles or crushed stone. It is hard and durable, rigid and unyielding. Concrete is used in dams, factories, bridges, and big engineering works like the Panama Canal, requiring great solidity and strength.

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CONCRETE FOR PERMANENCE

FARM AND HERD.

W. R. Huston, of Americus, Kansas, who owns one of the great herds of Durocs in Kansas, reports his herd doing well. He has succeeded in building up a herd of choice individuals and the blood lines of his herd are the best of the breed. He has a choice lot of sows sired by Country Gentleman, one of the great boars of the breed and a son of the second prize aged boar at the Interstate Fair, Sioux City, Iowa; also a number by the great Crimson Wonder bred boar, Gold Medal. A feature of his herd at this time is the choice lot of young stock sired by Taylor's Model Chief, a winner at a number of the big fairs.

G. M. Shepherd, of Lyons, Kansas, was one of the successful showmen of high-class Duroc swine at the big fairs this year. Mr. Shepherd's herd boar, G. M.'s Crimson Wonder, sired the champion junior yearling boar at the Kansas State Fair, and Illustrator 2d was the sire of the champion futurity litter. Mr. Shepherd is the owner of one of the good herds of Kansas and a feature of the herd at this time is the splendid lot of spring boars that are ready for service that will make real herd headers.

L. W. Terwilliger, of Fernwood Farm, Wauwatosa, Wisconsin, reports their Holsteins doing well. Fernwood Farm is one of the noted dairy cattle farms in Wisconsin and foundation stock for many good herds in the Southwest are from this farm.

W. R. Huston, Americus, Kansas, is developing a splendid herd of Duroc swine. They are the Golden Model, Model Chief and Great Wonder families. This year Mr. Huston has raised fifty-six spring pigs that are outstanding, and a feature of the herd at this time is the choice boar pigs that will make real herd headers.

Arthur Anderson, of Clyde, Kansas, has announced a sale of pure-bred big-type Polands to be held October 13. A choice offering of big-type Polands will be catalogued for this sale. The offering will be in good breeding condition and will represent the best blood lines of the breed.

Henry Koch, of Edina, Missouri, owner of the famous White Oak Park herd of big-type Polands, reports his herd doing well. Mr. Koch has been breeding Polands for a number of years. His herd was started with the best big-type breeding and individuals that he could buy and all of his foundation stock was selected from famous big-type herds, regardless of price. By scientific breeding he has succeeded in building up a herd of big-type Polands that are famous

SAVES WOMEN'S STRENGTH

No stooping—no reaching over milk can with the Dairy Queen. Sold direct to you. And the price is right. Enclosed All-Gear Drive, No Chains; Close Skimming Sanitary Bowl, Easily Cleaned; Splash-Cling System, Light Running; Low-Down Tank—Simple, Durable, Sanitary. MONTHLY PAYMENTS, \$5 down—\$5 per month. Made in 350, 500, 650 and 900 lb. capacities. Write for free catalog. Makers of separators for 16 years Dairy Cream Separator Co. 1501 Washington St., Lebanon, Ind.



THE NEW 1918 MODEL \$39 AND DAIRY QUEEN 39 UP

GOING TO COLLEGE?

Our young readers who contemplate attending business college this fall or winter will find it to their advantage to write KANSAS FARMER for information that will be valuable to them.

It will cost you nothing but a postal card or a two-cent stamp to find out what our proposition is. Address **DESK D, KANSAS FARMER Topeka, Kansas**

for size and quality. The boars at the head of this herd are two of the great sires now in service. Missouri Jumbo weighs 1,100 pounds, has lots of quality and is a great breeder. Long Big Joe weighs 1,000 pounds, has a twelve-inch bone, and is very high quality and a great sire. The sows of the herd are a choice lot, sired by noted boars of the breed, and a great feature of the herds at this time is the outstanding lot of fall and spring boars.

The greatest mistake we make, next to feeding "scrub" cows, is the "scrub" feeding of good cows.



Sheep At Kansas Fairs

THERE have been much larger exhibits of sheep in Kansas than were made this year at the Kansas Free Fair and the Kansas State Fair at Hutchinson. In 1915 there were over 500 sheep shown at Topeka. In quality of exhibits, however, the sheep shown this year were well worthy of high commendation. The Agricultural College showed thirty-four head representing the four breeds, Hampshire, Shropshire, Southdown, and Horned Dorset. These animals were the cream of the college flocks and were well fitted for exhibition. The college entries won twenty-three first prizes and nine championships. This heavy winning by the college entries is no disparagement of the exhibits made by individual breeders. It is generally recognized that A. M. Pater-son, of the Agricultural College, is the best sheep man ever connected with the institution. In developing this new live stock industry we would not feel satisfied if our Agricultural College did not have the best representatives of these different breeds it is possible to obtain. Kansas is in the beginners' class in breeding and showing sheep, and it is fortunate that so capable a judge as W. L. Blizzard placed the awards at the Kansas Free Fair. The judging ring is a splendid place to learn when the work is done by a man who so thoroughly understands what constitutes true merit. The exhibitors all recognized Mr. Blizzard as a man understanding thoroughly the task he had to perform.

At the Kansas State Fair the following week there were 143 sheep shown, several flocks from that part of the state being entered in addition to the flocks shown at Topeka the week previous. This is the largest exhibition of sheep ever made at this fair and it attracted considerable attention. The Shropshires were judged by O. A. Homan, of Pea-body, and the remaining classes by C. L. Buskirk, of Newton, and Mr. Homan, jointly. The awards at these two fairs are given below:

KANSAS FREE FAIR
Exhibitors—Kansas Agricultural College, Manhattan, Kan.; Clarence Lacey, Meriden, Kan.; C. E. Woods, Topeka, Kan.; W. W. Waltmire, Peculiar, Mo.

SHROPSHIRE
Aged Rams—1, Kansas Agricultural College, without competition.
Yearling Rams—1, Kansas Agricultural College; 2, Lacey.
Ram Lambs—1, 3 and 4, Lacey; 2, Agricultural College.
Champion Ram—Agricultural College.
Aged Ewe—1, Agricultural College; 2 and 3, Lacey.
Yearling Ewe—1, Lacey; 2 and 3, Agricultural College.
Ewe Lamb—1, Lacey; 2 and 3, Agricultural College.
Champion Ewe—Agricultural College.
Get of Sire—1, Agricultural College; 2, Lacey.
Flock—1, Agricultural College; 2 and 3, Lacey.
Lamb Flock—1, Agricultural College; 2, Lacey.

HAMPSHIRE
Aged Ram—1, Agricultural College, without competition.
Yearling Ram—1 and 2, Waltmire, without competition.
Ram Lamb—1, Agricultural College; 2 and 3, Waltmire.
Champion Ram—Agricultural College.
Aged Ewe—1 and 2, Waltmire, without competition.
Yearling Ewe—1 and 2, Agricultural College; 3 and 4, Waltmire.
Ewe Lamb—1, Agricultural College; 2 and 3, Waltmire.
Champion Ewe—Agricultural College.
Get of sire, aged flock and lamb flock all were awarded to Waltmire without competition.

DORSETS
All entries in classes for this breed were awarded to the Kansas Agricultural College without competition.

SOUTHDOWN
Exhibitors—Kansas Agricultural College and W. W. Waltmire.
Aged Rams—1 and 2, Agricultural College; 3, Waltmire.
Ram Lamb—1, Agricultural College; 2, Waltmire.
Champion Ram—Agricultural College.
Aged Ewe—1, Waltmire, without competition.
Yearling Ewe—1 and 3, Agricultural College; 2, Waltmire.
Ewe Lamb—1 and 2, Agricultural College; 3, Waltmire.
Champion Ewe—Agricultural College.
Get of Sire—Waltmire, without competition.
Flock—1, Agricultural College; 2, Waltmire.

COTSWOLDS
All prizes for this breed were awarded to C. E. Woods, without competition.

KANSAS STATE FAIR
Exhibitors—John Coldwater, Chase, Kan.; Clarence Lacey, Meriden, Kan.; Kansas Agricultural College, Manhattan, Kan.; Dr. F. B. Cornell, Nickerson, Kan.; C. E. Woods, Topeka, Kan.; W. W. Waltmire, Peculiar, Mo.; J. L. Kyle, La Cygne, Kan.

SHROPSHIRE
Aged Ram—Agricultural College, without competition.
Yearling Ram—1, Agricultural College; 2, Lacey; 3, Coldwater.
Ram Lamb—1, Lacey; 2, Cornell; 3, Agricultural College.
Aged Ewe—1, Coldwater; 2, Agricultural College; 3, Lacey.
Yearling Ewe—1 and 3, Lacey; 2, Agricultural College.
Ewe Lamb—1, Lacey; 2 and 3, Agricultural College.
Flock—1, Lacey; 2, Agricultural College.
Pen of Three Lambs—1, Agricultural College; 2 and 3, Lacey.
Champion Ram—Lacey.
Champion Ewe—Coldwater.

COTSWOLDS
All awards in this section were made to C. E. Woods, without competition.

DELAINE MERINOS
All awards to Waltmire, without competition.

HAMPSHIRE
Aged Ram—1, Agricultural College; 2, Waltmire.

Yearling Ram—Waltmire, without competition.
Ram Lamb—1, Agricultural College; 2, Cornell; 3, Waltmire.
Aged Ewe—1 and 2, Waltmire; 3, Cornell.
Yearling Ewe—1 and 2, Agricultural College; 3, Waltmire; 4, Cornell.
Ewe Lamb—1, Cornell; 2, Agricultural College; 3, Waltmire.
Pen of Three Lambs—1 and 2, Cornell; 3, Waltmire.
Champion Ram—1, Agricultural College.
Champion Ewe—Agricultural College.
Association Special—Flock, Cornell, without competition.

OXFORDS
Aged Ram—1, Kyle; 2 and 3, Waltmire.
Yearling Ram—Waltmire, without competition.
Aged Ewe—1 and 3, Waltmire; 2, Kyle.
Ewe Lamb—1, Kyle; 2, Coldwater; 3, Waltmire.
Flock—1, Kyle; 2, Waltmire.
Pen (three lambs)—Waltmire, without competition.
Champion Ram—Kyle.
Champion Ewe—Waltmire.
Yearling Ewe, Association Special—Kyle, without competition.

SOUTHDOWN
Aged Ram—1 and 2, Agricultural College; 3, Waltmire.
Yearling Ram—Agricultural College, without competition.
Ram Lamb—1, Agricultural College; 2, Waltmire.
Aged Ewe—Agricultural College, without competition.
Yearling Ewe—1 and 2, Agricultural College; 3, Waltmire.
Flock—Waltmire, without competition.
Pen of Three Lambs, Champion Ram and Champion Ewe—Agricultural College, without competition.

DORSETS
All awards to Agricultural College, without competition.

FAT WETHERS AND LAMBS
All awards to Agricultural College, without competition.

Wheat and Live Stock

Kansas is now planning to put out ten million acres of wheat. At the present time the conditions seem exceptionally favorable for a big crop next year. There has been plenty of rain to soak up the soil and when wheat land goes into the winter with a reserve of moisture the chances are strongly in favor of its making a big yield.

The wheat-production mark set for Kansas by the National Council of Defense calls for a record-breaking crop. It means the planting of ten millions of acres of wheat, which is more than one-fifth of the total acreage the Council has allotted to the winter wheat states. A twenty-bushel yield, which is not by any means impossible, and a two-dollar price, would mean \$400,000,000 to Kansas for the wheat crop alone.

Let us not forget, however, the dairy cow and the live stock industry in talking and thinking of breaking all wheat-production records. Maximum live-stock production means even more to the state in establishing the permanent prosperity of our farmers than does a big wheat crop. We notice ex-Governor Hoard, of Wisconsin, has been doing some figuring along this line in which he compares what he gets from his alfalfa and dairy cows with the profits of wheat growing. He says that on his farm his seventy acres of alfalfa this year has yielded in two crops three and a half tons to the acre. He sold some of the first crop, which produced 2.2 tons to the acre, for \$16 a ton, or a total of \$35.20 an acre. The second crop yielded at the rate of one and a quarter tons to the acre, of which some was sold for \$17 a ton, making this return \$21.25 an acre, or a total for the two crops of \$56.45. Even with a twenty-bushel yield of wheat and a price of \$2.50 a bushel, the wheat crop would return but \$50 an acre, and there is still another crop of alfalfa to be harvested. Mr. Hoard maintains that with dairy products at their present prices they will return a good profit from feeding alfalfa hay at \$17 a ton.

We do not fully appreciate the fact that live stock converts into cash large quantities of feed and forage that cannot be used directly as human food. The dairy cow and all kinds of live stock help to build up the soil, which means increasing its capacity for producing crops. The important thing to consider is to have the best types of live stock for performing this work of converting feed into money. The experience through which we are now passing will probably result in bringing about a great improvement in the class of live stock fed.

It has been estimated that there are about twenty-two million dairy cows in the United States and the annual value of their products reaches the enormous sum of nearly one billion dollars. Only the corn crop exceeds the dairy products as a source of income to the farmers of the nation.

No man knows all there is to learn about farming. Let us learn all we can from each other.



Learn to Use Milking Machine

IF WE are to keep up our dairy production we must in some way overcome the serious shortage of labor which exists. Dairymen everywhere are complaining that it is almost impossible to get good dairy help. The situation will be even more serious in the course of a few months than it is now. No other class of farm labor is harder to get than skilled dairy labor. Unless the men milking cows can get along with less help than in the past, many of them will have to cut down their dairy herds. There is a limit to what one man can do.

The milking machine is offering what is apparently the only possible solution of this problem of labor shortage. The mechanical milker does not do away with all the hand labor of milking and handling cows, but it does make it possible for one man to milk from a third to a half more cows in the same time. While milking machines may have objectionable features, we believe that the mechanical milker is here to stay. We might just as well make up our minds first as last to accept the milking machine and take up seriously the task of learning how to successfully operate it.

Success with any new piece of machinery is largely a matter of learning how to use it. We had to learn how to use reaping machines, twine binders, and other improved farm machinery. The strongest kind of prejudice existed against the reaper when it first came out, and it was slow to take its place as a piece of necessary farm equipment. When the twine binder first began to be used, farm machinery companies had to keep a lot of experts in the field to furnish first aid to those who are learning how to use the binders. Now nearly every farmer understands thoroughly the mechanism of his improved farm machinery and can correct anything that goes wrong without sending to the factory for an expert. It will be the same with the milking machine. The success of the dairyman with this labor-saving device will depend in large measure upon his determination to master the details of this machine and learn to make it do its work just as he has learned how to operate other machinery.

Since it is certain that labor conditions will be worse instead of better next spring and summer, those who hope to keep up their dairy production will undoubtedly find it necessary to begin early to look into the possibility of cutting down the hand labor connected with handling a bunch of dairy cows. It will take some little time to become acquainted with the machine and it would be far better to begin when other work is not pressing as hard as it does during the season of field work.

Three-Day Butter Fat Contest

Premiums to the amount of \$150 were offered by the Kansas Free Fair in the three-day dairy production contest conducted during fair week. Last year thirteen cows were entered in this contest, all of them registered. This year only eight cows were entered. The contest is open to grade cows and it is not necessary that the animals competing in this classification be entered in the regular dairy cattle competition. Not an animal was brought in from any of the many good dairy herds around Topeka. Of course the shortage of labor is the

main reason for dairymen not entering this contest. It is also recognized that a cow cannot be expected to make as good a record at a fair as at the home barn, but putting on such a contest should be accepted as an opportunity to do something for the cause of promoting the dairy industry. It features the importance of dairying and helps to lead the public to a fuller realization of the place the dairy business occupies in the production of human food.

The exhibitors of registered herds were the only contestants. Three mature cows were entered, representing respectively the Holstein, Jersey and Ayrshire breeds. Three Holstein heifers under three years of age were in the competition and there were single entries only in the Ayrshire and Jersey heifer classes. The best record was made by the two-year-old heifer, Eudora Pontiac Colanthe, belonging to the Galloway-Messer herd of Waterloo, Iowa. This heifer won the KANSAS FARMER silver trophy cup which was won by the United States Indian School of Genoa, Nebraska, last year, the cow winning the cup at that time producing in the three days 111.6 pounds of milk and 5.29 pounds of butter fat. This herd was not shown at the Kansas Free Fair this year.

The trophy will be properly engraved and held for one year by the Galloway-Messer farm. It can only be permanently held by a contestant winning it three years in succession. We hope some Kansas dairymen will come to the front and win this cup next year. The records of the cows in this three-day butter fat test are given in the table on this page.

What Makes Yellow Butter?

Everybody likes yellow milk and butter but sometimes the color is absent. This absence is especially noticeable in butter. Chemists investigated the cause of this variation in color as long ago as 1830 but it remained for the dairy department of the Missouri College of Agriculture to determine the real source and nature of the natural color of dairy products. Three years of investigation not only showed the cause of the natural color but made clear the nature and source of the yellow color that is found in the body fat of cattle. The color in the tallow is exactly the same as that found in butter. Cows that give yellow butter have yellow body fat, while those which give a whiter butter have whiter body fat.

The coloring matter in both cases is carotin, so called since it was first found in carrots. The yellow color in milk and butter is not made by the animal, but comes from the feed. This coloring substance is found in all green leaves, which accounts for the yellow butter in summer. By continued feeding of feeds free from coloring matter it was possible, in the experiments conducted, to obtain white butter from a Jersey cow. As a result of the work a list of feeds that will give yellow butter and those that will not is available.

We notice that Nebraska farmers are planning to take advantage of the opportunity to buy high-grade calves at comparatively low prices in Wisconsin. Very good calves are being sold there at reasonable prices because of the high



HOW do you know
the wind is off the meadow?

"Your Nose Knows"

by the fragrance. Fragrance is Nature's most perfect expression of goodness—perfect because it appeals to you personally and is infallible. There is a definite personal appeal in the pure fragrance of the best tobacco—an appeal that carries Nature's guarantee of infallible goodness—and "Your Nose Knows."

Such an appeal you will always find in

Tuxedo

The Perfect Tobacco

Made of the most fragrant leaves of the tobacco plant—the tender Burley leaves, ripened in the Blue Grass sunshine of Old Kentucky—Tuxedo has a pure fragrance all its own—"Your Nose Knows."



Try this Test: Rub a little Tuxedo briskly in the palm of your hand to bring out its full aroma. Then smell it deep—its delicious, pure fragrance will convince you. Try this test with any other tobacco and we will let Tuxedo stand or fall on your judgment—

"Your Nose Knows"

The American Tobacco Co.



Feed the Fighters! Win the War!

Harvest the Crops! Save the Yields!

On the battlefields of France and Flanders the United States boys and the Canadian boys are fighting side by side to win for the World the freedom that Prussianism would destroy.

While doing this they must be fed and every ounce of muscle that can be requisitioned must go into use to save this year's crop. A short harvest period requires the combined forces of the two countries in team work, such as the soldier boys in France and Flanders are demonstrating.

THE COMBINED FIGHTERS IN FRANCE AND FLANDERS AND THE COMBINED HARVESTERS IN AMERICA WILL BRING THE ALLIED VICTORY NEARER

A reciprocal arrangement for the use of farm workers has been perfected between the Department of the Interior of Canada and the Departments of Labor and Agriculture of the United States, under which it is proposed to permit the harvesters that are now engaged in the wheat fields of Oklahoma, Kansas, Iowa, North Dakota, South Dakota, Nebraska, Minnesota, and Wisconsin to move over into Canada, with the privilege of later returning to the United States, when the crops in the United States have been conserved, and help to save the enormous crops in Canada which by that time will be ready for harvesting.

HELP YOUR CANADIAN NEIGHBORS WHEN YOUR OWN CROP IS HARVESTED

Canada wants 40,000 Harvest Hands to take care of its 13 Million Acre Wheat Field

One cent a mile railway fare from the International Boundary line to destination and the same rate returning to the International Boundary. High wages, good board, comfortable lodgings.

An Identification Card issued at the boundary by a Canadian Immigration Officer will guarantee no trouble in returning to the United States.

AS SOON AS YOUR OWN HARVEST IS SAVED, move northward and assist your Canadian neighbor in harvesting his; in this way do your bit in helping "Win the War."

For particulars as to routes, identification cards and place where employment may be had, apply to Superintendent of Immigration, Ottawa, Canada, or to

GEO. A. COOK, Canadian Government Agent, 2012 Main St., Kansas City, Mo.

PRODUCTION RECORDS OF COWS IN THREE-DAY TEST

	Pounds Milk	Pounds Butter Fat
COWS THREE YEARS OLD OR OVER—		
Flush Emma De Kol II De Kol—Holstein - - - -	90.2	2.672
Coleman & Son, Denison, Kansas.		
White Sox Queen—Jersey - - - - -	49.9	2.41
Fred T. Laptad, Lawrence, Kansas.		
Old Sarah of Scotland Farm—Ayrshire - - - -	29.4	1.079
William Galloway, Waterloo, Iowa.		
COWS UNDER THREE YEARS OLD—		
Eudora Pontiac Colantha—Holstein - - - - -	92.7	3.57
Galloway-Messer Farm, Waterloo, Iowa.		
Nellie Segis Pontiac—Holstein - - - - -	61	2.35
Galloway-Messer Farm, Waterloo, Iowa.		
Buffalo Ella II—Holstein - - - - -	38.7	1.92
Coleman & Son, Denison, Kansas.		
Idyl's Menlo—Jersey - - - - -	61.7	2.477
Fred T. Laptad, Lawrence, Kansas.		
Nora Spencer—Ayrshire - - - - -	64.1	2.488
William Galloway, Waterloo, Iowa.		

price of milk and other dairy products. The extension division of the Agricultural College of Nebraska reports that nineteen men have recently purchased 116 calves, being aided in their purchases by men of this division. They are still receiving inquiries and orders. The dairy division of the Kansas Agricultural College has been of the greatest service to dairymen of Kansas along

similar lines. In view of the fact that some dairymen were reported to be under the necessity of selling good cows, the dairy department of the Kansas Agricultural College offered to act as a clearing house between buyer and seller, the idea being that there were plenty of places in Kansas where these cows could be placed and there was no necessity for sending them to market or slaughter.

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HORSE AWARDS.

PERCHERONS.
Exhibitors—Edward Cooks & Sons, Freeport, Kan.; Gossard Breeding Estate, Preston, Kan.; J. A. Cowdrey, Lyons, Kan.; Cantwell Bros., Sterling, Kan.; A. P. Loomis, Diamond Springs, Kan.; A. A. Cuthbertson, Sterling, Kan.
Judge—George B. Ross, Sterling, Kan.
Aged Stallions—1, Gossard, Marmot; 2, Cowdrey, Tainter; 3, Loomis, Lphonusa.
Three-year-old Stallions—1, Cooke, Poincaine; 2 and 3, Cantwell Bros., Woodrow and Billy D.
Two-year-old Stallions—1 and 2, Cooke, Pluto and Cassabel.
Stallion Foals—1 and 2, Loomis, Darco and Defiance; 3, Cantwell, Barney.
Champion Stallion—Marmot.
Aged Mares—1 and 3, Gossard, Keota Fair Maid and Satisfette; 2 and 4, Loomis, Jugalo and Dove.
Three-year-old Mares—1, Gossard, Gazella, without competition.
Two-year-old Mares—1, Gossard, Karcottle; 2, Loomis, Francine.
Yearling Mares—1, Loomis, Auline, without competition.
Aged Foals—1, Cuthbertson, Baroness 2d, without competition.
Champion Mare—Keota Fair Maid.
PERCHERON SOCIETY OF AMERICA SPECIALS.
Stallion Three Years Old and Over (bred and owned by exhibitor)—1, Cantwell, Woodrow; 2, Cooke, Poincaine.
Stallions Under Three Years (bred and owned by exhibitor)—1, Cooke, Kasabel; 2 and 3, Loomis, Darco and Defiance.
Reserve Champion—Cooke, Kasabel.
Mare Under Three Years Old (bred and owned by exhibitor)—1 and 2, Loomis, Francine and Alline; 3, Cuthbertson, Baroness 2d.
Product of Mare—1, Cooke, produce of Zella; 2, Loomis, produce of Jugalo.
Best Three Mares (owned by exhibitor)—1, Gossard; 2, Loomis.

BELGIANS.

All prizes in Belgian classes were awarded to David Cooper & Sons, of Freeport, Kan., without competition.

JACKS AND JENNETS.

Exhibitors—Cantwell Bros., Sterling, Kan.; W. D. Shore, Simpson, Kan.; E. E. Cowdrey, Hutchinson, Kan.
Judge—George B. Ross, Sterling, Kan.
Aged Jack—1, Cantwell Bros., Clover Leaf King; 2, Cowdrey.
Two-year-old Jacks—1, Shore, Ben Buster; 2, Cantwell Bros., King George.
Yearling Jack—1, Cantwell Bros., Billy Sunday, without competition.
Aged Jennets—1 and 2, Cantwell, Kansas Squaw and Clover Leaf Maid.
Two-year-old Jennets—1, Cantwell, Clover Leaf Blossom.
Yearling Jennet—1 and 2, Cantwell Bros., Clover Leaf Kate and Sister May.
Champion Jack—Ben Buster.
Champion Jennet—Clover Leaf Blossom.

CATTLE AWARDS.

ABERDEEN ANGUS.
Exhibitors—L. K. Kershaw, Muskogee, Okla.; Sutton & Porteous, Lawrence, Kan.; D. K. Robertson & Son, Madison, Neb.; William Lundgahl, Manhattan, Kan.; G. F. Cowden & Sons, Midland, Texas.
Judge—L. McWhorter, Alledo, Illinois.
Aged Bull—1, L. K. Kershaw, Black Capper of Loaside; 2, Sutton & Porteous, Elato of Five Gates.
Two-year-old Bulls—1, Cowden, Prizemere; 2, Kershaw, Inverne of Rosemere; 3, Sutton & Porteous, Quo Vadis IV; 4, Robertson & Son, King of Twinburn 4th.
Senior Yearling Bull—1, Robertson & Son, Barbarian of Twinburn; 2, Kershaw, Philomena Pride.
Junior Yearling Bull—1, Cowden, Bendew; 2, Lundgahl, Black Quinto L; 3, Sutton & Porteous, Blackbird Heatherson; 4, Robertson & Son, Eathonian; 5, Kershaw, Red Hur E; 6, Sutton & Porteous, Gay Lad C 2d; 7, Robertson & Son, King of Twinburn 6th.
Senior Bull Calf—1 and 3, Cowden & Son, Elondo and Blackcap Bueno; 2, Robertson, Porteous, Cyrene.
Junior Bull Calf—1, Cowden & Son, Blackcap Bowden C; 2 and 4, Kershaw, Muskogee 29th and Ben Hur 2d of Long Dell; 3, Robertson & Son, King of Twinburn 8th; 5, Sutton & Porteous, Black Alister.
Senior Champion and Grand Champion Bull—Prizemere.
Junior Champion Bull—Barbarian of Twinburn.
Aged Cows—1, Kershaw, Twinburn Pride 5th; 2 and 4, Robertson & Son, Gay Rose R and Blackbird 101; 3, Cowden & Son, Blackbird of Quietdale.
Two-year-old Heifers—1 and 3, Cowden & Son, Blackbird Junior 7th and Blackcap McHenry 181st; 2 and 5, Robertson & Son, Key of Twinburn and Twinburn Blackbird 4th; 4, Kershaw, Blackbird 185.
Senior Yearling Heifer—1, Cowden & Son, Myra of Topeka; 2, Kershaw, Muskogee Rose 2d; 3, Robertson & Son, Twinburn Blackbird 6th.
Junior Yearling Heifer—1, Kershaw, Muskogee Donna 3d; 2, Robertson & Son, Key of Twinburn 2d.
Senior Yearling Heifer Calf—1 and 2, Cowden & Son, Myra C 3d and Kaecana; 3, Kershaw, Muskogee Eline; 4, Sutton & Porteous, Heatherson Pride; 5, Robertson & Son, Twinburn Blackbird 10th.
Junior Heifer Calf—1, Sutton & Porteous, Miss Heatherson; 2, Kershaw, Muskogee Donna 4th; 4, Robertson & Son, Twinburn Queen 7th; 4, Cowden & Son, Bonita C.
Senior and Grand Champion Female—Twinburn Pride 6th.
Junior Champion Female—Myra of Topeka.
Aged Heifers—1, Cowden & Son; 2, Kershaw; 3, Robertson & Son.
Young Heird—1, Robertson & Son; 2, Kershaw.
Calf Heird—1, Cowden & Son; 2, Sutton & Porteous; 3, Kershaw; 4, Robertson & Son.
Get of Sire—1, Robertson on get of Valla's Knight; 2, Kershaw, on get of Black Emerson; 3, get of Wakarusa Heatherson 6th.
Product of Cow—1 and 4, Cowden & Son; 2, Robertson & Son; 3 and 5, Kershaw.

SHORTHORNS.

Exhibitors—William Herkelmann, Elwood, Iowa; Howell Rees & Sons, Pilegr, Neb.; John Regier, Whitewater, Kan.; H. Pritchard, Walnut, Iowa; A. L. Harris, Osage City, Kan.; H. H. Holmes, Topeka, Kan.; Rapp Bros., St. Edwards, Neb.; H. Homan & Sons, Peabody, Kan.
Judge—Ed Patterson, Bunceon, Mo.
Aged Bull—1, Herkelman, Cumberland Standard; 2, Holmes, Clipper Brawith.
Two-year-old Bulls—1, Rees & Sons, Violet's Dale; 2, Rapp Bros., Thaxton Master.
Senior Yearling Bulls—1, Holmes, Viscount Stamp, without competition.
Junior Yearling Bulls—1, Herkelman, Cumberland Goods; 2 and 4, Rapp Bros., Omega Secret and Pride's Renown; 3, Rees & Son, Ruberta Goods Model; 5, Harris, Commander.
Senior Bull Calf (thirteen shown)—1, Pritchard, Dale's Reliance; 2, Holmes, Count Valentine; 3, Rees, Brawith Goods; 4, Pritchard, Dale's Guardeer; 5, Rapp Bros., Omega's Honor; 6, Herkelman, True Goods; 7, Regier, Eldelstein.
Junior Bull Calf—1, Pritchard, Dale's Viscount; 2, Holmes, Red Gauntlet; 3, Herkelman, Prince Cumberland; 4, Harris, Prince Valentine 5th.
Senior and Grand Champion Bull—Violet's Dale.
Junior Champion Bull—Dale's Reliance.
Aged Cows—1, Rees, Soncie Goods; 2, Herkelman, Collynie Rosewood; 3 and 6, Holmes, Honor Maid and Empress; 4 and 5, Harris, Crystal Maid and Roseleaf.
Two-year-old Heifers—1, Rees, Lady Violet 8th; 2, Herkelman, Village Venice; 3, Holmes, Fancy Tweedle; 4, Harris, Sunflower Lady.
Senior Yearling Heifer—1 and 2, Herkelman, Gypsy Maid and Lady Sultan; 3, Rees, Rosaline Goods 2d; 4, Pritchard, Dale Rosebud; 5, Holmes, Riverside Princess.
Yearling Heifers—1 and 3, Rapp Bros., Barmpton Flower and B. utterfly Lady; 2, Pritchard, Victoria 73d; 4 and 7, Holmes, Hallwood Gold Drop

5th and Ashwood Keepeaks; 5, Rees, Gay Lady; 6, Herkelman, Lady Cumberland.
Senior Heifer Calf—1, Rapp Bros., Village Violet; 2 and 4, Rees, Good Maile and Lady Ruberta; 3, Pritchard, Myrtle 3d; 6, Regier, Call Eighth; 6, Regier, Dale Victor.
Junior Heifer Calf—1 and 3, Pritchard, Victoria 74th and Dale Baigle; 2 and 4, Rapp Bros., Barmpton Flower 2d and Village Secret; 5, Herkelman, Lady Millard; 6, Holmes, Honor Maid 2d; 7, Harris, Roseleaf.
Senior and Grand Champion Cow—Rees & Son, Lady Violet 8th.
Junior Champion Cow—Rapp Bros. on Barmpton Flower.
Get of Sire—1, Rapp Bros., get of Village Pride; 2, Rees Bros., get of Ruberta's Goods; 3, Pritchard, get of Dale Clarion; 4, Herkelman, get of True Cumberland 3d; 5, Holmes, get of Prince Val 4th; 6, Regier, get of Dale's Emblem.
Product of Cow—Herkelman, produce of Lady Violet 5th; Pritchard, produce of Rosebud; 3, Rapp Bros., produce of Barmpton Lady 3d; 4, Harris, produce of Roseleaf.
Aged Heird—1, Rees; 2, Herkelman; 3, Holmes.
Young Heird—1, Rapp; 2, Pritchard; 3, Herkelman; 4, Rees, Holmes.
Calf Heird—1, Pritchard; 2, Rapp; 3, Holmes; 4, Rees; 5, Herkelman; 6, Regier.

POLLED DURHAMS.

Exhibitors—Achenbach Bros., Washington, Kan.; Albert Hultine, Saronville, Neb.; Joseph Baxter, Clay Center, Kan.
Judge—Ed Patterson, Bunceon, Mo.
Aged Bull—1, Baxter, Select Goods, without competition.
Two-year-old Bulls—1, Hultine, Roselawn Marshall, without competition.
Senior Yearling Bull—1 and 3, Achenbach Bros., Sunny Sultan and Intensified Sultan; 2, Hultine, Royal Goods.
Junior Yearling Bull—1, Hultine, Double Goods, without competition.
Senior Bull Calf—1 and 2, Hultine, Christmas Goods and Orange Bud.
Junior Bull Calf—1, Hultine, Royal Goods, without competition.
Senior and Grand Champion Bull—Roselawn Marshall.
Junior Champion Bull—Sunny Sultan.
Aged Cows—1 and 3, Achenbach Bros., Sultana and Minute 3d; 2, Hultine, Winsome; 4, Baxter, Scottish Betty.
Two-year-old Heifers—1, Achenbach Bros., Sultana Frances; 2, Hultine, Cyrene 2d.
Senior Yearling Heifer—1 and 3, Achenbach Bros., Fatima and Felice; 2, Hultine, Gloster Princess; 4 and 5, Baxter, Scottish Sultana and Sissy Calf.
Junior Yearling Heifer—1, Hultine, Select Fern; 2, 3 and 4, Achenbach Bros., Sultana Carmine, Sultana Thankful and Sultana Martha.
Senior Heifer Calf—1 and 2, Hultine, Gloster Countess 2d and Sultana 3d; 3, Achenbach Bros., Minute 5th.
Junior Heifer Calf—1, Achenbach, New Year's Gift; 2, Baxter, Little Betty.
Senior and Grand Champion Female—Sultana.
Junior Champion Female—Fatima.
Aged Heird—Hultine, without competition.
Young Heird—1, Achenbach; 2, Hultine.
Calf Heird—Hultine, without competition.
Get of Sire—1 and 3, Achenbach Bros., get of Meadow Sultan and Intense Sultan; 2 and 4, Hultine, get of Roselawn Marshall and Select Goods.
Product of Dam—1, Achenbach Bros., produce of Thankful 3d; 2, Hultine, produce of Fern Goods; 3, Baxter, produce of Jesse Kingsley 2d.

HOLSTEIN-FRIESIANS.

Exhibitors—Galloway-Messer Farms, Waterloo, Iowa; Albechar Holstein Farm, Independence, Kan.; J. M. Chestnut & Sons, Denison, Kan.
Judge—C. T. Graves, Maitland, Mo.
Aged Bull—1, Galloway, King Segis Ormsby; 2, Albechar, Sir Juliana Grace De Kol; 3, Chestnut, Johanna of Bonheur; 4, Galloway, Korndyke Ormsby.
Senior Yearling Bull—1, Chestnut, 2, Albechar, Albechar Juliana Dorindo De Kol; 3 and 4, Galloway, Segis Lad Pontiac Korndyke and King Ramona Blanco Ormsby.
Junior Bull Calves—1 and 2, Galloway, Prince Korndyke Segis Ormsby and Prince Bangor; 3 and 4, Chestnut.
Senior Champion Bull—King Segis Johanna Ormsby.
Junior and Grand Champion Bull—Prince Korndyke Segis Ormsby.
Aged Cows—1, Galloway, Jewel Walker Gerben of Cedar Side; 2 and 4, Albechar, Princess Alta Gerster De Kol and Johanna Lilly; 3, Chestnut, Beatitude Wayne De Kol.
Two-year-old Heifers—1 and 2, Galloway, Nellie Segis Pontiac and Eudora Pontiac Colantha; 3, Chestnut, Buffalo Ella II; 4, Albechar, Martia McKinley Hengerveld.
Senior Yearling Heifers—1, Albechar, Hengerveld Gerster Beauty De Kol; 2, Galloway, Delphia Segis Mercedes; 3, Galloway, Jewel Walker Segis Pontiac; 4, Albechar, Agnes Pontiac Clothilde.
Junior Yearling Heifers—1 and 3, Galloway, Eudora Maid Pontiac Ormsby and Ormsby Buffalo Mercedes II; 2, Chestnut, Lena McKinley Segis; 4, Albechar, Helena Ophelia Pontiac De Kol.
Senior Heifer Calves—1 and 2, Galloway; 3, Albechar; 4, Chestnut.
Junior Heifer Calves—1 and 2, Galloway; 3, Albechar; 4, Chestnut.
Senior and Grand Champion Cow—Nellie Segis Pontiac.
Junior Champion Female—Eudora Maid Pontiac Ormsby.
Aged Heird—1 and 2, Galloway; 3, Albechar; 4, Chestnut.
Young Heird—1, Galloway; 2, Chestnut; 3, Albechar.
Calf Heird—1, Galloway; 2, Chestnut; 3, Albechar.
Get of Sire—1, 2 and 3, Galloway, King Segis Pontiac Combination, King Segis Johanna Ormsby and Hengerveld King.
Product of Cow—1 and 3, Galloway, Eudora Maid of Pontiac II and Daisy Mercedes Johanna Ormsby; 2, Albechar, Hengerveld Gerster De Kol.

JERSEYS.

Exhibitors—G. F. Braden, White City Jersey Farm, Tulsa, Okla.; C. B. Palmer, Marion, Kan.; W. O. Matthews, Hutchinson, Kan.
Judge—C. T. Graves, Maitland, Mo.
Aged Bull—1, White City Farm, Noble's Handsome Prince, without competition.
Two-year-old Bull—1, Palmer, Monaldu's Eminent, no competition.
Senior Yearling Bull—1, White City Farm, Majesty's You'll Do; 2, Matthews.
Junior Bull Calf—1, White City Farm, Twice You'll Do.
Junior Bull Calf—1, White City Farm, Phillip's Noble.
Senior and Grand Champion Bull—Noble's Handsome Prince.
Junior Champion Bull—Majesty's You'll Do.
Aged Cow—1, 2 and 3, White City Farm, Ozouf Farm Princess, Noble's Cocotte, and Invicta; 4, Matthews, Lucelle Dana.
Two-year-old Heifers—1, White City Farm, Dame Togo of Windsor Place, without competition.
Senior Yearling Heifers—1, White City Farm, Lady of Windsor Place, without competition.
Junior Yearling Heifers—1, 2 and 3, White City Farm on Distinction's Princess, You'll Do Champion Queen and Golden Noble's Cocotte; 4, Matthews, Jersey Belle.
Senior Heifer Calves—1, 2 and 3, White City Farm, You'll Do Gamboge Dorine, Rosobud's Fairy and You'll Do Fredilla.
Junior Heifer Calves—1 and 2, White City Farm, Virginia Rosobud and Georgia You'll Do.
Senior and Grand Champion Cow—Ozouf Farm Princess.
Junior Champion Cow—Distinction's Princess.
Get of Sire—White City Farm, get of You'll Do Champion.
Product of Cow—White City Farm, produce of Ozouf Farm Princess.
Aged Heird, Young Heird and Calf Heird—White City Farm, without competition.

GALLOWAYS.

Exhibitors—H. G. Croft, Bluff City, Kan.; O. H. Swiggart & Son, Salisbury, Mo.

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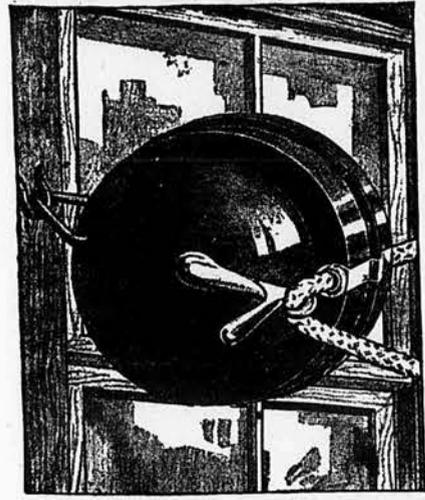
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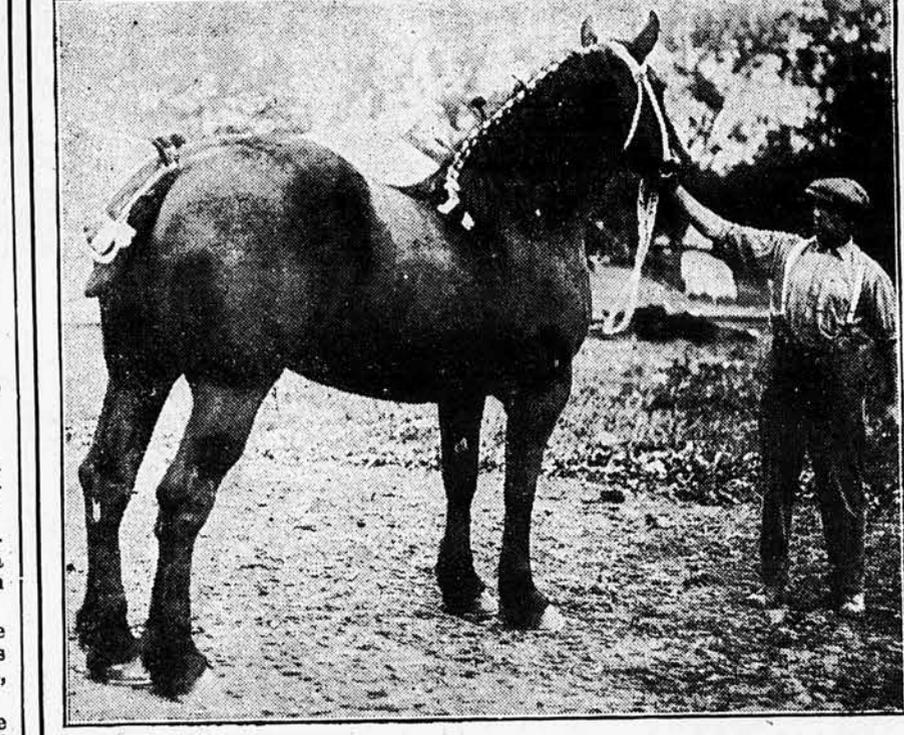
Aged Bull—1, Croft, A Carnot, without competition. Senior Yearling Bull—1, Croft, Rex of Green Bush; 2, Swiggart, Stanley's Baron. Junior Yearling Bull—1, Croft, 2, Swiggart, Green 1st and Evora 2d of Salisbury; 2, Swiggart, Evora 1st. Senior Bull Calf—1, Croft, Frolic of Green Bush; 2, Swiggart, Lord Stanley. Junior Bull Calf—1, Croft, Elrod; 2, Swiggart, Lord Second. Aged Cow—1, Croft, Carlotta of S. F.; 2, Swiggart, Little May. Two-year-old Cow—Croft, Meadow Queen. Senior Yearling Heifer—1, Croft, Evaline of Green Bush. Junior Yearling Heifer—1, Croft, Gwendolyn Third of Green Bush. Senior Heifer Calf—1, Swiggart, Pride 17th; 2 and 3, Croft, Vina 3d of Green Bush and Vina of Wonder. Junior Heifer Calf—1, Croft, Sylvia; 2, Swiggart, Rose 2d of Avondale. Senior and Grand Champion Bull—A Carnot. Junior Champion Bull—Evora 2d of Salisbury. Senior and Grand Champion Cow—Carlotta of L. F. Junior Champion Cow—Gwendolyn 3d of Green Bush.

HEREFORDS. Exhibitors—Henry M. Halff, Midland, Texas; C. M. Largent, Merkel, Texas; La Vernet Stock Farm, Jackson, Miss.; Klaus Bros., Bendena, Kan.; M. D. Pike, Weatherford, Okla.; Goernandt Bros., Aurora, Kan.; Jesse Engle & Sons, Sheridan, Mo.; Carl Miller, Belvue, Kan.; W. I. Bowman & Co., Ness City, Kan. Judge—W. J. Brown, Fall River, Kan. Aged Bulls—1, Halff, Beau Homer; 2, Bowman, Sampson; 3, Goernandt, Polled Homer; 4, Bowman, Lawrence Fairfax; 5, Klaus, Beau Onward. Two-year-old Bulls—1 and 4, Davis, Vernet Prince 36th, Vernet 31st; 2, Largent, Shadeland Lad 2d; 3, Halff, Beau Homage; 5, Miller, Larry; 6, Pike, Britton Fairfax; 7, Bowman, Lord Generous. Senior Yearling Bulls—1 and 2, Largent, Rhone Lad and Gay Lad Jr.; 3, Engle, Beau Blanchard 25th; 4, Davis, Vernet Prince 43d; 5, Halff, Winner H 2d; 6, Klaus, Beau Onward 52d. Junior Yearling Bull—1, 4, 6 and 7, Largent, Prince Fairfax, Burnett Fairfax, Dale Fairfax, Beau Fairfax; 2, Miller, Mischief Mixer 7th; 3, Halff, Beau H 625th; 5, Engle, Beau Blanchard 33d. Senior Calf—1 and 2, Engle, Beau Blanchard 53d and Beau Blanchard 52d; 3, Davis, King Vernet 2d; 4, Pike, Vernet Fairfax; 5, Klaus, Beau Onward 64th; 6, Halff, Sagamore 65th; 7, Largent, Rhone Lad 2d. Junior Bull Calf—1, Largent, Kleburg Lad; 2 and 4, Halff, Hero H 702 and Homer H 707; 3, Vernet, Vernet Prince 57th; 5, Bowman, Generous Garfield; 6, Miller, Echo Lad 79th; 7, Klaus, Beau Onward 68th. Senior and Grand Champion Bull—Vernet Prince 36th. Junior Champion—Prince Fairfax. Aged Cows—1, Largent, Rosy Britisher; 2, Vernet, Manles Lass 38th; 3 and 5, Halff, Emma Bell and Dove; 4, Pike, Delliah; 6, Klaus, Miss Onward 23d; 7, Bowman, Charlotte. Two-year-old Heifer—1 and 5, Largent, New Year Joy and Beauty Fairfax; 2, Vernet, Vernet Princess 36th; 3, Halff, Silver Bell; 4, Klaus, Miss Onward 33d; 6, Pike, Lady Hever; 7, Miller, Simple Ten. Senior Yearling Heifer—1, Largent, Shadeland's Jewel 2d; 2 and 3, Davis, Vernet Princess 38th and Vernet Princess 41st; 4, Pike, Carl G's Lass; 5, Klaus, Miss Onward 34th; 6, Halff, Miss Dove; 7, Pike, Miss Fern. Junior Yearling Heifer—1 and 6, Halff, Belle H 625 and Heroine H 608; 2, Largent, Dollie Fairfax; 3 and 7, Engle, Belle Blanchard 32d and 31st; 4, Pike, Baby Briton; 5, Miller, Echo Lass 12th. Senior Heifer Calf—1, 2 and 3, Engle, Belle Blanchard 43d, 44th and 61st; 4, Largent, Margaret Fairfax; 5 and 6, Halff, Heroine H 608 and Hero's Dove; 7, Pike, Prosperity. Junior Heifer Calf—1 and 6, Davis, Princess Comfort 12th and La Vernet 9th; 2, Engle, Belle Blanchard 49th; 3, Halff, Belle H 704th; 4, Miller, Echo Lass 120th; 5, Halff, Heroine H 704th; 7, Largent, Rosa Fairfax. Senior Champion Female—Rosa Britisher. Junior and Grand Champion Female—Shadeland's Jewel 2d. Aged Heifer—1, Largent; 2, Davis; 3, Halff; 4, Pike; 5, Klaus. Junior Heifer—1, Largent; 2, Engle; 3, Halff; 4, Davis; 5, Miller; 6, Pike. Calf Heifer—1 and 2, Engle; 3, Halff; 4, Largent; 5, Davis; 6, Miller. Get of Sire—1 and 4, Largent, get of Gay Lad 16th and Baby Doll Fairfax; 2, Davis, get of Point Comfort 14th; 3, Engle, get of Beau Blanchard; 5, Halff, get of Beau Donald 10th. Produce of Cow—1, Largent, produce of Dove; 2 and 4, Engle, produce of Petrolia 12th and Silver Tip; 3, Pike, produce of Lady Briton; 5, Halff, produce of Jewel Spencer 8th.

SWINE AWARDS. **DUROC-JERSEYS.** Exhibitors—Howell Bros., Herkimer, Kan.; W. R. Crow & Sons, Hutchinson, Kan.; W. W. Otey, Winfield, Kan.; G. M. Shepherd, Lyons, Kan.; Perfection Stock Farm, Union, Okla.; W. W. Jones, Clay Center, Kan.; W. W. Zink, Turin, Kan.; R. L. Hurst, Bolekow, Mo.; B. R. Anderson, McPherson, Kan.; W. W. Trumbo, Peabody, Kan. Judge—E. Z. Russell, Omaha, Neb. Aged Boars—1, Howell Bros., Elk Colonel; 2 and 3, Crow; 4, Otey. Senior Yearling Boar—1, Crow, Potentate; 2, Zink; 3, Crow. Junior Yearling (six shown)—1, Anderson, Royal Grand Wonder; 2, Howell; 3, Shepherd; 4, Perfection Stock Farm. Junior Boar Pig (eight shown)—1, Shepherd, Crimson Gano; 2, Howell; 3, Crow; 4, Jones. Senior Boar Pig (four shown)—1, Trumbo, Constructor Jr.; 2, Shepherd; 3 and 4, Crow. Senior Champion Boar—Potentate. Junior Champion Boar—Crimson Gano; reserve, Constructor Junior. Grand Champion Boar—Potentate. Aged Sows (six shown)—1, Perfection Stock Farm, Graduate Queen; 2, Crow; 3 and 4, Hurst. Senior Yearling Sow—1, Perfection Stock Farm, Defender Queen; 2, 3 and 4, Crow. Junior Yearling Sow (twelve shown)—1, Hurst, Colonel's Dream; 2, Crow; 3 and 4, Shepherd. Senior Sow Pig (ten shown)—1, Zink; 2, Shepherd; 3, Anderson; 4, Hurst. Junior Sow Pig (eighteen shown)—1, Crow, Futurity Girl; 2, Zink; 3, Crow; 4, Shepherd. Senior and Grand Champion Sow—Perfection Stock Farm, Graduate Queen. Junior Champion Sow—Zink. Aged Herds—1, Crow; 2, Perfection Stock Farm; 3, Crow; 4, Hurst. Young Herds—1, Shepherd; 2, Crow; 3, Howell; 4, Zink. Get of Sire (eleven entries)—1, Shepherd, G. M.'s Crimson Wonder; 2, Perfection Stock Farm; 3, Crow; 4, Howell. Produce of Sow (ten entries)—1, Shepherd, produce of Golden Girl Again; 2, Howell; 3, Shepherd; 4, Crow.

POLAND CHINAS. Exhibitors—B. E. Hodson, Ashland, Kan.; Phil Dawson, Endicott, Neb.; A. J. Erhart & Sons, Ness City, Kan.; E. R. Meyers, Hutchinson, Kan.; W. E. Epley, Diller, Neb.; V. O. Johnson, Aulie, Kan.; Olivier & Sons, Danville, Kan.; C. B. Palmer, Marion, Kan.; Deming Ranch, Oswego, Kan.; Wichita Live Stock Remedy Co., Wichita, Kan. Judge—J. P. Bennett, Lee's Summit, Mo. Aged Boars—1, Hodson, McGath's Big Orphan; 2, Wichita Live Stock Remedy Co., A. Big Wonder. Senior Yearling—1, Dawson, Nebraska Bob; 2, Palmer, King Dudley; 3, Johnson, Fashionable Price. Junior Yearling (eight shown)—1, Hodson, What's Wanted; 2, Dawson, Jumbo Chief; 3, Erhart, Erhart's Big Chief; 4, Meyers, Jumbo Bob. Senior Boar Pig—1 and 2, Deming Ranch; 3, Erhart; 4, Dawson. Aged Sows (five shown)—1 and 3, Deming Ranch, Big Mal and Expansion Beauty; 2, Dawson, Uhlau Mow's Lady; 4, Erhart, Major's Mayflower. Senior Yearling Sow—1, Dawson, Robina 4th; 2, Palmer, Loly Wonder; 3 and 4, Deming Ranch. Junior Yearling Sow (nine shown)—1 and 4, Deming Ranch; 2, Erhart, Big Beauty; 3, Epley, Nebraska Belle. Senior Sow Pig (fourteen shown)—1, Dawson; 2, Olivier; 3, Erhart; 4, Deming Ranch. Junior Sow Pig (fourteen shown)—1, Olivier; 2, Erhart; 3 and 4, Deming Ranch. Senior and Grand Champion Sow—McGath's Big Orphan. Junior Champion Boar—Long Bob. Senior and Grand Champion Sow—Robina 4th. Junior Champion Sow—Uhlau Columbia. Aged Herds—1, Dawson; 2 and 3, Deming Ranch; 4, Palmer. Young Herd (bred by exhibitor)—1, Olivier; 2, Deming Ranch; 3, Epley; 4, Erhart. Get of Sire—1, Deming Ranch, Long What's Wanted; 2, Erhart, Big Hadley Jr.; 3, Olivier, A Wonderful King; 4, Epley, Expansion Long. Produce of Sow—1, Erhart, Lady Jumbo Equal; 2, Deming Ranch, Receiver's Maid; 3, Olivier, Logan's Price; 4, Epley, Mammoth Lady.

CHESTER WHITES. Exhibitors—Coleman & Crum, Danville, Kan.; Arthur S. Mosse, Leavenworth, Kan.; F. C. Gookin, Russell, Kan.; W. W. Walmire & Sons, Peculiar, Mo.; E. J. Smiley, Perth, Kan. Judge—E. Z. Russell, Omaha, Neb. Aged Boars (three shown)—1, Coleman & Crum, Pride of Aall; 2, Mosse; 3, Gookin. Senior Yearling Boars (four shown)—1, Coleman & Crum, Veto; 2, Walmire; 3, Gookin; 4, Mosse. Junior Yearling Boars (three shown)—1, Mosse, Don Wonder; 2, Coleman & Crum; 3, Walmire. Senior Boar Pigs (four shown)—1, Coleman & Crum, Smiley's Kind; 2, Walmire; 3, Mosse; 4, Gookin. Junior Boar Pigs (ten shown)—1, Mosse, Don Royal; 2, Smiley; 3, Mosse; 4, Walmire. Senior and Grand Champion Boar—Veto. Junior Champion Boar—Smiley's Kind. Junior Champion Sow—Smiley's Kind. Aged Sows (six shown)—1, Walmire; 2, Mosse; 3, Coleman & Crum; 4, Mosse. Senior Yearling Sows (two shown)—1 and 2, Gookin. Junior Yearling Sows (three shown)—1, Smiley, Echo's Fancy; 2 and 3, Walmire & Sons. Senior Sow Pigs (five shown)—1, Walmire, Ruby Wonder; 2, Smiley; 3, Mosse; 4, Walmire. Junior Sow Pigs (seven shown)—1, Coleman & Crum; 2, Mosse; 3, Walmire; 4, Coleman & Crum. Senior and Grand Champion Sow—Tip Top. Junior Champion Sow—Ruby Wonder. Aged Herds—1, Mosse; 2, Walmire. Young Herds—1 and 3, Walmire; 2, Coleman & Crum.



GAZELDA, GRAND CHAMPION PERCHERON MARE AT TOPEKA AND AT HUTCHINSON. SHOWN BY GOSSARD BREEDING ESTATES, PRESTON, KANSAS

BERKSHIRES. Exhibitors—Sutton & Porteous, Lawrence, Kan.; R. C. Obrecht, Topeka, Kan.; Kansas Agricultural College, Manhattan, Kan. Judge—E. Z. Russell, Omaha, Neb. Aged Boar—1, Obrecht, Pathfinder 3d. Junior Yearling Boar—1, Sutton; 2, Agricultural College; 3 and 4, Obrecht. Junior Boar Pigs—1 and 3, Sutton; 2, Agricultural College; 4, Obrecht. Aged Sows—1, Sutton, Classy Stumpy; 2, Sutton. Senior Yearling Sow—Sutton. Junior Yearling Sows—1 and 2, Sutton; 3 and 4, Obrecht. Senior Sow Pig—1, Sutton; 2, Obrecht. Junior Sow Pig—1 and 4, Agricultural College; 2 and 3, Sutton. Senior and Grand Champion Boar—Pathfinder 3d. Junior Champion Boar—Sutton. Senior and Grand Champion Sow—Sutton, Classy Stumpy. Junior Champion Sow—Sutton, Charmer's Duchess. Aged Heifer—1, Sutton; 2, Obrecht. Young Heifer—1 and 3, Sutton; 2, Agricultural College; 4, Obrecht. Get of Sire—1, Obrecht; 2, Sutton; 3, Agricultural College. Produce of Sow—1 and 3, Obrecht; 2 and 4, Sutton.

HAMPSHIRES. Exhibitors—George W. Ela, Valley Falls, Kan.; Scudder Bros., Doniphan, Neb.; W. O. Matthews, Hutchinson, Kan.; Ernest Kirby, Union, Okla. Judge—E. Z. Russell, Omaha, Neb. Aged Boars—1, Scudder, General Jones; 2, Matthews, Tom Kirby. Senior Yearling Boar—1, Scudder, America. Junior Yearling Boar—1, Ela, Halcyon Cody; 2 and 3, Scudder. Senior Boar Pigs—1, Scudder, Platte River; 2 and 3, Scudder. Junior Boar Pigs—1 and 3, Matthews; 2 and 4, Scudder. Aged Sows—1, 2 and 3, Scudder, Scudder's Ellen 2d, Opal, and Lorene. Senior Yearling Sow—1, 2 and 3, Scudder, Alfalfa Queen, Edna Girl, and unnamed. Junior Yearling Sows—1, 2 and 3, Scudder, Nancy, Allen Lady and Allen Lady 4th. Senior Sow Pigs—1, Scudder, Smooth Girl; 2 and 3, Scudder. Junior Sow Pigs—1, 2 and 3, Scudder. Senior and Grand Champion Boar—General Jones. Junior Champion Boar—Platte River. Senior and Grand Champion Sow—Scudder's Ellen 2nd. Junior Champion Sow—Smooth Girl. Aged Heifer—1, 2 and 3, Scudder. Young Heifer (bred by exhibitor)—1 and 2, Scudder. Get of Sire—1 and 2, Scudder; 3, Matthews. Produce of Sow—1 and 2, Scudder; 3, Matthews.

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Get of Sire—1, Walmire; 2, Mosse; 3, Walmire; 4, Coleman & Crum.

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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 60,000 farmers for 5 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.

AGENTS WANTED.

MAN TO WEAR FINE SUIT, ACT AS agent; big pay, easy work. Banner Tailoring Co., Dept. 738, Chicago.

HELP WANTED.

WANTED—MARRIED MAN WITH A small family to work on farm by month. Steady work year round. J. M. Miller, Rte. 1, Elmdale, Kansas.

WANTED—MEN-WOMEN, 18 OR OVER. Government jobs, \$100 month. Big opportunity for farmers. War necessitates hundreds appointments. Write for list positions. Franklin Institute, Dept. G-82, Rochester, N. Y.

CATTLE.

120 HEAD OF HIGH GRADE HOLSTEIN cows and heifers, priced for quick sale. H. F. McNutt, Oxford, Wisconsin.

FOR SALE—DOUBLE STANDARD Polled Durham bulls. Write for description and price. C. M. Albright, Route 2, Overbrook, Kansas.

NINE HEAD HIGH GRADE HOLSTEIN cows due to calve in October. They are bred to a registered bull whose nearest two dams average over 900 pounds butter. R. E. Stuewe, Alma, Kansas.

FOR SALE—VERY CHOICE HIGH-GRADE Holstein calves, either sex, three to six weeks old, at \$20 per head, crated for shipment. Or if you want dairy cattle of any age, I will buy them at a commission from the best herds in Southern Wisconsin. Albert M. Hanson, Whitewater, Wisconsin.

HIGHLY BRED HOLSTEIN CALVES, either sex, 15-16th pure, from heavy milkers, five to seven weeks old, beautifully marked, \$23, crated and delivered to any station, express charges paid here. Send orders or write. Lake View Holstein Place, Whitewater, Wisconsin.

DOGS.

TRAINED BEAGLES, RABBIT HOUNDS, foxhounds, coon, opossum, skunk dogs, setters, pointers, house, farm dogs. Ferrets. Catalog 10c. Brown's Kennels, York, Pa.

TRAINED RABBIT HOUNDS, FOX hounds, coon, opossum, skunk dogs, setters, pointers, ferrets. List free. Violet Hill Kennels, Hanover, Pa.

FULL BLOOD RUSSIAN WOLF HOUND pups, six months old. White with lemon markings. \$15 each. Irish stag pups, \$10 each. Geo. E. Hineman, Dighton, Kansas.

AIREDALES AND COLLIES—GREATEST of all pups. Grown dogs and brood matrons. Large instructive list, 5c. W. R. Watson, Box 128, Oakland, Iowa.

FOR SALE—HIGH CLASS FOX AND coon hounds. The kind that can deliver the goods. Bred tight and broken right. If you want a good one, write me. Price reasonable. A. F. Sampey, 317 E. Mt. Vernon St., Springfield, Missouri.

TREES, SEEDS AND PLANTS.

FULCASTER SEED WHEAT FOR SALE, \$2.50 per bushel. Sacks extra. J. C. Starr, Vinita, Oklahoma.

PURE-BRED HIGH-YIELDING TURKEY red hard seed wheat, cleaned and graded, at \$3.00 a bushel. Ferdinand Hubka, Vinita, Kansas.

TREE PLANT THIS FALL. NEVER A better time. Save money and get our terms. Write today for fruit book and information about growing fruits. Buy direct—it pays. Headquarters for well selected seeds. Box No. R, Wichita Nurseries & Seed House, Wichita, Kansas.

BUSINESS CHANCES

FREE FOR SIX MONTHS—MY SPECIAL offer to introduce my magazine, "Investing for Profit." It is worth \$10 a copy to any one who has not acquired sufficient money to provide necessities and comforts for self and loved ones. It shows how to become richer quickly and honestly. Investing for Profit is the only progressive financial journal and has the largest circulation in America. It shows how \$100 grows to \$2,200. Write now and I'll send it six months free. H. L. Barber, 431, 28 W. Jackson Boulevard, Chicago.

MISCELLANEOUS.

1,024 YEARS AMERICAN HISTORY, 80c postpaid. Elias Pelton, Hudson, Kansas.

ONE NEW ALMO FARM ELECTRIC 60-light plant, cheap. Kern & Mead, Great Bend, Kansas.

HONEY.

HONEY—NEW CROP. SEND FOR PRICE list. Bert W. Hopper, Rocky Ford, Colo.

HOGS.

CHESTER WHITES—MAY PIGS AT farmers' prices. Gust Claussen, Bunker Hill, Kansas.

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EVERBEARING, \$2 PER HUNDRED; common varieties, \$1 per hundred. Choice thrifty stock. State inspected. Pedigreed. J. A. Dowden, North Bend, Neb.

POULTRY.

WHITE ROCK EGGS, \$4 PER HUNDRED. Nora Lamaster, Hallowell, Kansas.

POULTRY WANTED.

PROFITABLE EASY MARKETING. Coops and cases loaned free. Daily remittances. Poultry and eggs wanted. The Copes, Topeka.

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SHETLAND PONIES, ALL AGES AND colors. Priced to sell. C. H. Clark, LeCompton, Kansas.

SELLING OUT. EXTRA GOOD REGISTERED black Percheron, \$500; bay Belgian, \$350; two black jacks, \$350 and \$500. All sound and guaranteed. Lewis Cox, Concordia, Kansas.

THE STRAY LIST.

TAKEN UP—ON THE 5TH DAY OF September, 1917, by Mike Paul, of Marienthal, Kansas, one gray mare, weight 1,100 pounds; wire cut on both front feet. Dean Trueblood, County Clerk.

REAL ESTATE.

OWNER OFFERS STOCK AND DAIRY ranch in prosperous Southwest Kansas. Land of opportunity. Terms, S. W., care Kansas Farmer.

NORTH CENTRAL KANSAS, OSBORNE County seed, grain and stock farms, \$20. Best wheat and corn land, \$35 to \$50. "Here is the place." J. F. Baum, Natoma, Kansas.

FARMS AND FARM LANDS FOR SALE. All kinds of soils; rain-belt, dry farming or irrigable. Lands five miles or less from railroad. H. M. Madison, General Farm and Immigration Agent, San Antonio & Aransas Pass Ry., San Antonio, Texas.

Real Estate For Sale

10,000 ACRES of good grazing land, well watered, for \$3 to \$5. All crops good. No drought, no hot winds. Grass for cattle and corn for hogs. Best country in the world to live and make money.

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FOR SALE

Or Exchange for Kansas Property 220 acres of rice and timber lands six miles south of Stuttgart, Ark. Address owner, JOHN W. HARBESON, Tonganoxie, Kansas

180 A. Meadow, 7 miles R. R. town, this county. Level, no rocks; no overflow; every acre tillable; made 200 tons No. 1 baled hay this season; hay \$15 per ton here now. \$28 per a. Terms, E. Z. terms.

SOUTHERN REALTY CO., McAlester, Okla.

202 ACRES BOTTOM FARM Highly improved, 6 1/2 miles of Lyons, Kansas; 175 a. under cultivation, 25 a. alfalfa, 25 a. timothy, 50 a. wheat, 75 a. in corn balance timber; 3/4 mile of school. Price to sell at \$20,000.00. For particulars write F. M. Buchheim, Real Estate, 521 West St., Topeka, Kansas.

BEAUTIFUL SHAWNEE COUNTY KANSAS FARMS NEAR TOPEKA

160 a. farm, \$80; 160 a. farm, \$65; 43 a. farm, \$3,800. Can fit you out in any size farm desired. E. Z. terms.

J. E. THOMPSON (The Farmer-Land Man) Tecumseh, Kansas

STATEMENT OF THE OWNERSHIP and management of Kansas Farmer, published weekly, at Topeka, Kan. For October 1, 1917. Required by the Act of August 24, 1912.

State of Kansas } ss.
County of Shawnee } ss.
Before me, a notary public in and for the state and county aforesaid, personally appeared W. J. Cody, who, having been duly sworn according to law, deposes and says that he is the manager of Kansas Farmer and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management of the aforesaid publication for the date shown in the above caption.

President—E. Z. terms, Topeka, Kan.
Business Manager—W. J. Cody, Topeka, Kan.

Publisher—The Kansas Farmer Company, Topeka, Kan. (A corporation.)
Names and addresses of stockholders holding 1 per cent or more of total amount of stock:

T. A. Borman, Topeka, Kan.
M. A. Low, Topeka, Kan.
S. H. Pitcher, Topeka, Kan.
John R. Mulvane, Topeka, Kan.
E. W. Rankin, Topeka, Kan.
O. W. Devine, Topeka, Kan.
C. C. Younggreen, Topeka, Kan.
E. T. Guymon, Hutchinson, Kan.
W. C. Richardson, New York, N. Y.
W. J. Cody, Topeka, Kan.
W. F. Evans, St. Louis, Mo.
Dean R. Low, Bartlesville, Okla.
F. W. Barteldes, Lawrence, Kan.
A. T. Reid, Topeka, Kan.

Known bondholders, mortgagees, and other security holders, holding 1 per cent or more of total amount of bonds, mortgages, or other securities:

None.

(Signed) W. J. CODY,
Business Manager.

Sworn to and subscribed before me, this 21st day of September, 1917.

S. H. PITCHER,
Notary Public.

(Seal.) My commission expires March 17, 1919.



We desire to make this department just as helpful as possible, and believing that an exchange of experiences will add to its value, we hereby extend an invitation to our readers to use it in passing on to others experiences or suggestions by which you have profited. Any questions submitted will receive our careful attention and if we are unable to make satisfactory answer, we will endeavor to direct inquirer to reliable source of help. Address Editor of Home Department, Kansas Farmer, Topeka, Kansas.

"It takes a heap-o' livin' in a house 't make it home. A heap o' sun and shadder; an' yer sometimes hev 't roam. Afore yer reely 'preciate the things yer lef' behind 'em hunger for 'em somehow with 'em allus on yer mind. It don't make any difference how rich yer git ter be. How much yer chairs and tables cost, how great yer luxury. It ain't 'home' to yer, though it be the palace of a king. Until somehow yer soul is sort of wrapt 'round everything."

Government Denies Rumor

Rumors that the American Government intends to attempt to appropriate the foods which the housewives of this country have canned, dried, and preserved during the summer, have emanated from unauthentic sources.

In a communication received from the United States Department of Agriculture by Edward C. Johnson, dean of the division of extension of the Kansas Agricultural College, the authorities state emphatically that no such course has ever been contemplated by the Government. On the contrary, both the Department of Agriculture and the Food Administration are strongly urging the housewives to can and preserve all surplus fruits and vegetables in order that the households themselves may have a cheap and plentiful supply of food. There is no truth in the widely circulated statement that the Government expects to take food from any family.

State Fair Club Exhibits

A prominent place was given to the boys' and girls' club department at the Kansas State Fair. This showing of club work at the big fairs is a new departure. A splendid beginning has been made, and we will expect this department to become one of the strong features in the years to come. Otis E. Hall, state club leader, of the extension division of the Agricultural College, was superintendent of this section. The idea of canning surplus products for home use has been one of the important features of the club work. Canning exhibits constituted a large part of the showing made. These exhibits were arranged on shelves running up in the form of steps. A number of Mother-Daughter canning clubs were entered at the Hutchinson fair. Twenty-four mother-daughter teams were represented by the Fair Oak Club, of Rice County, which had on exhibition 269 pint jars of the various products. This club was a close second to the exceptional exhibit made by the Bonner Springs Mother-Daughter Club, this club having gone to the expense of shipping its exhibit to the Hutchinson fair after winning the club honors at Topeka the week before. The contest for club honors between these two contestants was so close that the judge finally decided to divide the money, giving \$50 to the Bonner Springs club and \$25 to Fair Oak. The sewing work of the girls in Class A attracted a great deal of attention. There were twenty-seven school dresses tastefully displayed on the walls in this department. In all there were in the neighborhood of 180 entries in the sewing classes. The conditions governing the entries in the boys' and girls' club department were given in full in describing this exhibit at the Kansas Free Fair, these two fairs each putting on this club work for the first time this year. There was very little duplication of exhibits at these two fairs. The boys and girls that made the fine showing at Hutchinson were from the section of the state naturally tributary to that fair, and the exhibits at Topeka came from the northern and eastern parts of the state. The awards follow:

CANNING CLUBS

Boys and Girls' Products—1, Maude Jacques, Strong City; 2, Marcella Whitcomb, Cottonwood Falls; 3, Margaret McClintock, Wichita; 4, Merle Bell, Lyons; 5, Mabel Lewis, Strong City.

Mother-Daughter Products—1, Mrs. Alice Sells, Maple Hill; 2, Mrs. Clyda Greene, Bonner Springs; 3, Mrs. Hubert L. Popenoe, Emporia; 4, Mrs. Thomas Marks, Emporia; 5, Mrs. Fred McClintock, Wichita.

Mother-Daughter Club Honors—1, Bonner

Springs Club, Wyandotte County; 2, Fair Oak Club, Rice County.

CORN-GROWING CONTEST
Eastern Kansas, Ten-ear Exhibit—1, Durward Hawkins, Jarbalo; 2, Harvey Peterson, Maple Hill; 3, Rupert Pickett, Hymer; 4, James McClelland, Maple Hill; 5, Frances Cotton, Maple Hill.

Western Kansas, Ten-ear Exhibit—1, Francis L. Reed, Lyons; 2, Ivan S. Johnson, Hutchinson; 3, Carl Mauser, Geneseo; 4, Marion H. Adams, Lyons; 5, not claimed.
Single Ear Exhibit—1, Carl Mauser, Geneseo; 2, Durward Hawkins, Jarbalo; 3, Rupert Pickett, Hymer; 4, Marion H. Adams, Lyons; 5, not claimed.

GARDEN CLUBS
Tomatoes—1, Marvin S. Johnson, Hutchinson; 2, Bruce Smith, Colony; 3, John D. Voorhees, Emporia; 4, Katie E. Ehart, Easton; 5, not claimed.

Potatoes—1, Clarence Duffin, Leavenworth; 2, James D. Carsten, Jennings; 3, Floyd Pliner, Jarbalo; 4, Donley Johnson, Alma; 5, James McClelland, Maple Hill.

Mixed Vegetables—1, Madeline Ledbetter, Parsons; 2, Eva Mae Hyde, Maple Hill; 3, Henry Couley, Colony; 4, James McClelland, Maple Hill; 5, not claimed.

Garden Club Honors (special prize \$25)—High School Garden Club of Manhattan, Merle Collins in charge.

SEWING CLUBS
Class A—1, Nellie Whitcomb, Cottonwood Falls; 2, Garnett Carpenter, Fredonia; 3, Phyllis Burtis, Fredonia; 4, Elva Frather, Randall; 5, Laura Clayton, Admire.

Class B—1, Avarel Ellis, Lyons; 2, Cleo Veal, Maple Hill; 3, Hilma Elledge, Garden City; 4, Orppa Railing, Ford County; 5, Julia Martin, Admire.

Sewing Club Honors (special prize \$25)—Ionia Sewing Club of Jewell County.

FIG CLUBS
Poland-Chinas—1, Howard Palmer, Marion; 2, Marmion McWilson, Rice.

Crisp Cornmeal Cake

1 cupful milk
1/2 cupful white cornmeal
1/2 teaspoonful salt

Mix ingredients and heat slowly until the boiling point is reached. It is not necessary to stir. Spread on a shallow buttered pan to a depth of about one-fourth of an inch. Bake in a moderate oven until crisp.

Zuni Indian Bread

1 cupful white cornmeal
1 cupful yellow corn meal
1 cupful water
1 teaspoonful salt
1/2 teaspoonful cayenne
1 cupful chopped suet

Mix all well together, form into rolls about five inches long, roll in greased paper, and bake in a moderate oven one hour. Serve hot. The habit among the Indians was to roll these cakes in the husks of corn, a method which is sometimes followed by campers.

Poor Man's Biscuit

1 pint cold water
1/2 teaspoonful soda
1/2 teaspoonful salt
1 tablespoonful sugar
1 tablespoonful lard
2 cupfuls flour
1 rounding teaspoonful baking powder

Roll out or drop from spoon.—Mrs. C. B. MARTIN, Route 2, Pittsburg, Kansas.

"I would rather be able to appreciate things I cannot have, than to have things I am not able to appreciate."

Wonderful Egg Producer

Any poultry raiser can easily double his profits by doubling the egg production of his hens. A scientific tonic has been discovered that revitalizes the flock and makes hens work all the time. The tonic is called "More Eggs." Give your hens a few cents worth of "More Eggs" and you will be amazed and delighted with results. A dollar's worth of "More Eggs" will double this year's production of eggs, so if you wish to try this great profit maker, write E. J. Reefer, poultry expert, 4636 Reefer Bldg., Kansas City, Mo., who will send you a season's supply of "More Eggs" Tonic for \$1 (prepaid). So confident is Mr. Reefer of the results that a million dollar bank guarantees if you are not absolutely satisfied your dollar will be returned on request and the "More Eggs" costs you nothing. Send a dollar today or ask Mr. Reefer for his free poultry book that tells the experience of a man who has made a fortune out of poultry.—(Adv.)

36 POUND NEW FEATHER BED \$9.50 AND PAIR G.L.B. PILLOWS
All New, Live, Clean, Sanitary Feathers. Best grade feather proof ticking. Satisfaction guaranteed. Write for catalog.
CAROLINA BEDDING CO., Dept 190 Greensboro, N. C.



Treatment of Cholera

THE past few weeks have brought a number of inquiries in regard to fowl cholera and the methods of control. This is one of the diseases that is decidedly rare. It appears only in cases of extreme filth or where carried by some diseased bird or animal. It is one of the most dangerous of all poultry diseases and when well established in a flock a cure is well nigh impossible. Especially is this true where the birds have free range. It is very contagious and may be carried from flock to flock by birds, dogs, cats, or on the feet of the poultryman. Blood spilled from an infected bird or the flesh of a dead bird eaten by other fowls will cause the disease to spread so that it is necessary to carefully gather all such and burn them. All litter in the houses where diseased birds have been should be gathered and burned, then all houses and runs should be thoroughly disinfected and the disinfection repeated every time a sick bird is discovered.

The usual symptoms of this disease are a droopy, listless attitude of the fowl. It will stand around all hunched up, wings drooped, head down, eyes nearly if not quite closed. Comb and face will be very pale. There will be an unquenchable thirst. The sick fowl will often drink until the water will run from the mouth when the head is lowered. The crop will be distended and the bird becomes very thin and weak. Often in the last stages of the disease the bird will fall when endeavoring to walk. There is always diarrhea accompanying the trouble. The voidings are frequent and watery, often appearing frothy. There is often a spasm at the last in which it is not uncommon for the fowl to cry out as if in great pain.

No definite cure can be given for the trouble. Unless the affected bird is of great value, thump it on the neck with some blunt instrument, thus breaking its neck without spilling any of the blood, and burn the carcass. When the disease is discovered in the first stages, give a few drops of creolin in the drinking water—just enough to color the water slightly. One-tenth of a grain of corrosive sublimate to a quart of water is also beneficial. Thoroughly disinfect all quarters and runs.

Unfortunately anything that causes bowel trouble and death is called by many cholera, and any simple remedy that caused a cure is thereafter called a cholera cure. Many irregularities will cause bowel trouble, such as smutty grain, filthy places in which to gather feed, semi-decayed meat—in fact, anything that tends to disturb digestion. Lice when present in large enough numbers will by their irritating presence cause the mucous membranes to become unhealthy and give off a watery discharge. As these conditions if neglected cause death, the verdict is cholera.

In cases of common diarrhea a few drops of camphor on a spoonful of sugar dissolved in the drinking water will usually affect a cure. A dose of epsom salts dissolved in the drinking water or given in a wet mash will usually remove the offending matter from the digestive tract and give relief. In all such cases a thorough search should be made to discover the cause.—N. L. HARRIS.

Green Feed for Poultry

When chickens have access to growing green stuff, they eat a great deal less grain, stay in better physical condition, lay more and better eggs, and work longer and live longer.

In order to get these benefits outside of the summer or growing season, we would especially recommend this year that the poultry runs or a patch of ground near the poultry house be seeded somewhere between the first and fifteenth of September with winter rye or possibly wheat.

With favorable conditions sown thus early there should be a heavy mat of green food a month later or about the time other green stuff is killed by frost.

Between October 15 and April 15 there is nothing green that grows that chickens like better than growing rye or wheat. It is a better and safer food

than sprouted oats and infinitely less trouble.

Sowing later than September 15, except perhaps along the southern tier of counties, is useless as it will not make enough growth to stand chickens pasturing on it. Also, if its other beneficial quality is to be of value, namely purifying the soil, then there should be a chance for a rank growth.

The baby chick business is growing in this state. Mr. Flueheart, of the Flueheart Hatchery, made us a call last week. He reports a good business the past year. In most cases where those making a business of selling day-old chicks have advertised, they have been unable to meet the demand. Shipping eggs for hatching purposes is a very unsatisfactory business. The express companies and parcels post carriers are so careless in handling the eggs that many good eggs are spoiled if not broken. This dissatisfaction is not experienced where day-old chicks are sold. When you buy a chick there is no three weeks' wait to see what you have. It is also more satisfactory to the seller, as he has no settings to replace because of poor hatches from one cause or another. The day of the community hatchery is not far off. One man giving his entire time to the care of a large incubator can do better work as well as hatching chicks more economically than where every person tries to hatch just a few. In every neighborhood some man or woman will be glad to take the eggs from an entire community and incubate them. A small charge per egg will be made, all unhatched eggs being returned to the owner. At present prices it costs from four to six cents to hatch chicks with the small incubators. This does not count the hatches that are ruined by the person who is so busy that the machine is forgotten. The man who is in the business can hatch for less money and make a good profit.

Cull Stock and Save Feed

In traveling over the state of Indiana during the summer, a member of the poultry division of Purdue University came to the conclusion that the average poultry flock of the state could be culled with profit. He found in many flocks quite a number of superannuated old hens that ate expensive feed and did not lay enough eggs to pay the feed bill. These old hens are in the same class with the boarder cow. In feeding the flocks it seems the common practice to cut down on the feed. The better and more profitable plan would be to cull out the undesirable flock and feed well the productive fowls.

The pullet year is the most profitable part of the fowl's life. Only the exceptional hens can be kept through a second winter at a profit unless they have additional value as breeders. Hens on the farm now over two years old should be consumed at home or sold. If the farmer doubts his ability to distinguish a hen's age, he can put one hog ring on the right leg of each bird as she ends her pullet year. This is inexpensive and easy of identification.

If feed is scarce as well as expensive, then it will pay to sell all the young roosters that won't make money and all the stunted, undersized and slow-growing pullets. Anything that will not lay or grow profitably should be sold, leaving their feed for poultry that is more profitable.

The females that have just finished their first year should be sold as soon as they quit laying, unless for some reason or other a few must be kept as next year's breeders. The Purdue Experiment Station has found that if October 1 be the date for culling, 95 per cent of the birds that had been poor layers would be pretty well moulted and show the yellow color in beak and shanks. The good layer would either not have started moulting or would be ragged, but in good vigorous condition with all her beak, shank and skin color "laid out" and absent. The early moult was the poor layer and will seldom get back into laying before the late moult and then not until near Christmas time.

COMBINATION FINE STOCK SALE

Wichita, Kans, Oct. 9 to 12

At the Divers Barn on West Douglas Avenue During the Second Week of the INTERNATIONAL WHEAT SHOW

Tuesday, October 9th

We Will Sell at Auction

125 Head Shorthorn Cattle

Including Ten Pure Scotch Bulls, Twenty Scotch Tops, Five Double Standard Bulls, Fifty Scotch and Scotch-Topped Cows and Calves. One cow by Imp. Cup Bearer, the greatest prize winning Shorthorn bull. Forty-five yearling and two-year-old heifers.

This Offering Includes Special Bull Attractions.

WEDNESDAY, OCTOBER 10

S. T. Tuttle & Son, of Caldwell, Kansas, make a dispersal sale of their entire herd.

165 — SHETLAND PONIES — 165

Thirty-five Stallions from yearlings to aged horses. 130 Mares and Colts.

FRIDAY, OCTOBER 12

Fifty Second Hand Autos—All Makes and All Sizes.

A. A. STRATFORD, CLERK.

Lafe Berger, Boyd Newcomer, H. S. Burgis, Auctioneers.

F. S. KIRK, Manager

500 East Douglas Avenue

Wichita, Kansas

Jersey Cattle Sale

OCTOBER 9, 1917, AT HOLTON, KANSAS

On account of insufficient equipment and feed, I have decided to sell my entire herd of Registered Jersey Cattle. About eighteen head of milkers or heavy springers; eight heifers from babies to yearlings; also the proven breeding bull, Castor's Victor Lad, a great grandson of Golden Fern's Lad. Many noted bulls represented in this sale. We have quality and production combined. On account of shortness of time for preparation, opportunity surely lies with the purchaser. Stock will be only in good working condition, not highly fitted. Will meet you at depot with car to farm and return. Write for catalog at once or send bids to

THEODORE HAAG, OWNER, - HOLTON, KANSAS
H. F. ERDLEY, SALE MANAGER

SCHOOLS AND COLLEGES

GOVERNMENT SCHOOL

The Kansas Wesleyan Business College holds an appointment by the United States Government to teach Morse and Radio Telegraphy. This honor is a fitting recognition of the efficient work of this school.

The War Department furnishes us all needed additional equipment to handle the great classes of young men and women now enrolling.

Graduates are guaranteed immediate appointment with the Signal Service or, if preferred, with the railroads.

Write at once for catalog.

The Kansas Wesleyan Business College, Salina, Kansas

Stickler's Banks And Railroads

Demand Our Graduates

Graduates guaranteed positions and furnished employment to defray expenses while attending.

119 East Eighth St., Topeka

LEARN TELEGRAPHY

Young men and women attend on credit. A practical school with railroad wires. Owned and operated by the A. T. & S. F. Ry. EARN FROM \$5 TO \$165 PER MONTH. Write for catalog. SANTA FE TELEGRAPH SCHOOL
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Business College
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814 Students from 16 States. College. Academy. Domestic Science. Business. Music. Piano Tuning. Art and Expression. For catalog write Pres. E. E. Pihlblad. Mention course.

Learn Auctioneering at World's Original and Greatest School and become independent with no capital invested. Every branch of the business taught in five weeks. Write today for free catalog.

JONES NAT'L SCHOOL OF AUCTIONEERING
34 N. Sacramento Blvd. Chicago, Illinois
Carey M. Jones, President.

HOLSTEIN CATTLE.

SUNNYSIDE HOLSTEINS
"Echo Segis Fayne," our great herd sire, for sale to avoid inbreeding. He is a grand individual, only 3 years old, and by King Fayne Segis Clothilde, brother to Segis Fayne Johanna, the world's 50 pounds butter in seven days cow. Price \$700. Also yearlings and bull calves sired by Echo Segis Fayne, for sale. SUNNYSIDE STOCK FARM, John Montle, Prop., U. S. P. O. Derby Line, Vt.

Southard's Monarch Herefords

SELL AT

Comiskey, Kan., Saturday, October 6

(The Day Following the American Royal at Kansas City)

125-----HEAD-----125

One hundred cows and heifers, fifty with calves at side and fifty bred heifers. Twenty-five very choice young bulls all of breeding age that will exert a beneficent influence in the herds to which they are taken.

The calves are sired by and the heifers bred to such bulls as the mighty MONARCH, KING FARMER, LOUIS FAIRFAX, BRIGHT DOMINO, NERO FAIRFAX, AND OTHER NOTED SIREs.

In this sale you will have a chance to buy cattle with pedigrees as good as can be written and individuality as good as you can find.

A great chance to buy real foundation stock tracing to and representing the most noted American and English Herefords,
J. O. Southard, Comiskey, Kansas

KANSAS HAMPSHIRE SWINE BREEDERS' ASSOCIATION SALE

VALLEY FALLS, KANSAS, FRIDAY, OCTOBER 12, 1917

Sale Under Cover at Fair Grounds.

SIXTY HEAD OF BOARS, SOWS AND GILTS

including

Prize-Winning Pig of Halcyon Hampshire Pig Club

The boys of the Halcyon Pig Club will sell a choice lot of spring gilts in this sale.

AUCTIONEERS

Col. Thos. E. Deem, Cameron, Mo. Col. F. B. Wempe, Frankfort
 Col. John R. Triggs, Valley Falls Col. Frank Blako, Valley Falls
 Chas. T. Gephart, Clerk, Valley Falls, Kansas

MAIL BIDS will be given careful attention if sent to either of the auctioneers, or E. C. Stone, in care of Secretary Ela.

GEO. ELA, SALES MANAGER, VALLEY FALLS, KANSAS

Sutton & Porteous Angus Sale

Thursday, October 4, At Farm

Lawrence, Ks.

78 HEAD

Angus
Cattle

Sixteen Bulls of serviceable age

Twenty-six Bred Heifers

Thirty-six Cows with calves at foot or heavy in calf

All the best families represented—the Blackbirds, Ericas and Prides. Our whole show herd goes in the sale. Twenty-seven championships won by our herd last year. Send for catalog today, mentioning Kansas Farmer.

SUTTON & PORTEOUS - - LAWRENCE, KANSAS
 Auctioneers—Cooper and Brady

POLLED DURHAM CATTLE.

FOR SALE—A few choice young bulls, sired by Chief, a son of True Sultan. Priced to sell.
 D. C. VAN NICE - RICHLAND, KANSAS
 (On Mo. Pac. Ry., 17 miles S. E. of Topeka.)

POLLED DURHAM CATTLE

Seventeen head of well bred Polled Durham and Shorthorn Cattle to be sold at public sale, October 12, 1917. Write for catalog.

MRS. EMMA HUNDLEY
 Bogard, Missouri
 Route 2

Breeders' Directory

RED POLLED CATTLE.

Mahlon Greenmiller, Pomona, Kansas.

ANGUS CATTLE.

D. J. White, Clements, Kan.
 DORSET HORN SHEEP
 H. C. LaTourette, Route 2, Oberlin, Kan.

HORSES AND MULES.

PERCHERONS—BELGIANS—SHIRES
 2, 3, 4 and 5-yr. stallions, ton and heavier; also yearlings. I can spare 75 young registered mares in foal. One of the largest breeding herds in the world.
 FRED CHANDLER, R. 7, Charleston, Ia. Above Kansas City.

Choice Young Belgians, English Shires, Percherons, also Coach stallions, also mares. Many first prizes. Long time 6% notes. Illinois Horse Co., Good Blk., Des Moines, Ia.

Barn Full of Percheron Stallions and Mares. Twenty-five mature and aged jacks. Priced to sell. AL. E. SMITH, Lawrence, Kansas.

AUCTIONEERS.

Jas. T. McCulloch Live Stock Auctioneer. I make sales anywhere. Write for date. CLAY CENTER, KANSAS

Live Stock and Real Estate Auctioneer. Fifteen years experience. Write for terms. Thos. Darcey, Hutchinson, Kansas.

CHESTER WHITE HOGS

FOR SALE
 Spring Pigs in Pairs and Trios Not related, from my undefeated show herd 1916. Ship at weaning. Send for prices and show record. COLEMAN & CRUM, Danville, Kansas.

Clinton County Chesters

Booking orders for spring pigs of National Swine Show blood lines. Fall and spring pigs at bargain prices.
 J. H. McANAW - CAMERON, MISSOURI

John D. Henry, of Leocompton, Kansas, reports his big-type Polands doing fine. A feature of his herd at this time is a number of outstanding boars by Big Wonder, also a lot of good ones by Mammoth Orange and Price Wonder.

SHORTHORN CATTLE.

ABBOTSFORD SHORTHORNS

Eighteen young bulls for sale. A few of them about ready for service. Priced to sell. The kind that always please.

D. BALLANTYNE & SON, Herington, Kan.

Sycamore Springs Shorthorns

Master of Dale by the great Avondale heads herd. A few young Scotch bulls and bred heifers for sale.

H. M. HILL - LAFONTAINE, KANSAS

Sunflower Herd of Shorthorns

A few good cows and heifers for sale, also choice bull calves. Come and see my herd.

A. L. HARRIS - OSAGE CITY, KANSAS

SHADY LAWN SHORTHORNS

At head of herd, Kansas Archer 440809 by Mistete Archer. For sale, fifteen choice young bulls from spring calves to yearlings. Come and see our herd.

F. H. HULL & SONS - EUREKA, KANSAS

Doyle Spring Shorthorns

Bulls twelve to fifteen months old, sired by Orange Marshall and Star Goods.
 DOYLE SPRING STOCK FARM
 Peabody - Kansas

ALYSDALE HERD OF SCOTCH SHORTHORNS

Prince Valentine 4th and Clipper Brawith in service. Orange Blossom on October 9. Queen of Beautys and Violets. Choice young stock for sale.

H. H. HOLMES, Route 28, Topeka, Kansas

Pearl Herd Shorthorns

Valiant 346162 and Marengo's Pearl 391-962 in service. Young bulls up to 10 months old for sale. Reds and roans, in good thrifty condition and the making of good useful animals. Inspection invited.

Can ship on Rock Island, Union Pacific or Santa Fe Railway.

C. W. TAYLOR - ABILENE, KANSAS

GALLOWAY CATTLE.

GALLOWAY BULLS

SIXTY yearling and two-year-old bulls, strong and rugged; farmer bulls, have been range-grown. Will price a few cows and heifers.

E. E. FRIZELL, Frizell, Pawnee Co., Kansas

GUERNSEY CATTLE.

GUERNSEY BULLS.

Buy a grandson of Imp. May Royal, whose dams are granddaughters of Imp. Masher Sequel. One to seven months old. ADAMS FARM, Gashland, Mo., 12 miles from K. C.

Theodore Haag, of Holton, Kansas, has announced a sale of high-class Jersey cattle to be held at Holton on October 9. Twenty-five head of choice Jerseys of record breeding will be catalogued for this sale and the offering will include representatives of the best families of the Jersey breed.



PERCHERON STALLIONS

FOR SALE THIS FALL AT REDUCED PRICES

Two yearling colts; two 2-year-old colts; two 3-year-old colts; two 4-year-old colts, and one herd stallion. All sound and registered in Percheron Society of America. Blacks and bays. If sold this fall I will cut the prices. Also five registered Shorthorn bulls, reds and roans. Come and see me.

J. C. PARKS - HAMILTON, KANSAS

MODERN HEREFORDS

HAZFORD PLACE

Home of the Grand Champion BOCALDO 6TH, assisted by CALDO 2D, PUBLICAN 4TH AND BEAU BALTIMORE.

All our show cattle our own breeding. Inspection of farm and breeding herd invited. A few choice young bulls reserved to head high-class pure-bred herds now ready for inspection and sale.

William Condell, Herdsman. ROBT. H. HAZLETT, EL DORADO, KANSAS

SHEEP.

A LIFETIME EXPERIENCE proves the Rambouillet the best sheep for Kansas. Stock for sale. E. D. KING, Burlington, Kansas.

DOYLE PARK SHROPSHIREs

Sixty Registered Shropshires—Thirty ewes and ewe lambs, thirty rams and ram lambs. Lambs sired by our undefeated ram, Ohio and Michigan, 1916.

HOMAN & SONS - PEABODY, KANSAS

200 - RAMS - 200 REGISTERED SHROPSHIREs
 Our flock was awarded 20 prizes at 1917 Iowa State Fair. Weight and wool always win. Rams and ewes for sale. C. W. & Frank Chandler, Kellerton, Ia.

FOR SALE—Registered Shropshire ram lambs and yearlings.

W. T. HAMMOND, PORTIS, KANSAS

OXFORD DOWN RAMS AND EWES

Bred from my \$300 imported ram. WM. EMPLE - AMSTERDAM, NEW YORK

SAPPHIRE (BLUE) HOGS

SAPPHIRE (BLUE) HOGS
 The quickest pork producer known. Breeding stock for sale. L. E. JOHNSON, Waldron, Harper County, Kansas.

HAMPSHIRE HOGS

HALCYON HERD HAMPSHIRE HOGS. Best breeding, best type. Stock for sale. GEO. W. ELA, Valley Falls, Kansas

Francis & Fritts, of Paola, Kansas, have announced a sale of registered and high grade Jersey cows, the sale to be held September 29.

FARM AND HERD.

The Nebraska Holstein Breeders' Sale, to be held at South Omaha, Nebraska, October 16, under the management of Dwight Williams, promises to be one of the big sale events in Holstein circles this fall. Seventy head of high quality Holsteins, backed by production records, will be catalogued, and the consigners are as follows: University of Nebraska, Lincoln; Indian School, Genoa; D. E. C. Brown, Fullerton; Leroy Ball, Albia; W. J. Jenkinson, Monroe; D. M. Hildebrand, Seward; J. E. Bunte, Cortland; B. B. Davis, Omaha; Nelson Bros., Stromsburg; W. M. Condon, Humphrey; Little & Little, Clarks; C. J. Furry, Franklin; Dwight Williams, Omaha; J. B. Branson, Lincoln; Dr. Hubert Work, Pueblo, Colo.

W. J. Harrison, of Mayflower Stock Farm, Axtell, Kansas, reports his Duroc herd doing well. Mr. Harrison is building up one of the best Duroc herds in the state. He has just added the junior champion sow at the Topeka Free Fair to his fine herd of sows. A feature of his herd at this time is the choice lot of spring pigs, including some outstanding boars.

DR. J. H. LOMAX

Poland China Sale

Leona, Kansas, Oct. 4, 1917

55 Choice High Quality 55

Big Type Polands

Our offering consists of nine fall boars, sixteen spring boars, sixteen fall gilts and fourteen spring gilts. They are sired by such boars as Big Bob King 78296, Master Orphan 76818, and Dean's Big Timm 82230. They are out of B Wonder, Big Hadley's Likeness, Big Ben, Chief Jumbo, Model Big Bob, A Wonder Price, Expansion's Son, and Goliath dams. It will be one of the best offerings sold this season. They have the size, quality and breeding. Send for catalog at once. Address

Dr. J. H. LOMAX
STATION B. ST. JOSEPH, MISSOURI

O. W. Devine Representing Kansas Farmer.

POLAND CHINAS

POLAND CHINAS.



Faulkner's Famous Spotted Polands

The world's greatest pork hog are raised exclusively on

HIGHVIEW BREEDING FARMS

The largest registered herd of old, original, big-boned, spotted Polands on EARTH. Spring Pigs Now Ready to Ship, Pairs and Trios No Kin.

H. L. FAULKNER - BOX D - JAMESPORT, MISSOURI

Spotted Poland Chinas

Thirty spring boars, thirty spring gilts. Sired by Billie Sunday, Calville Giant and Perfect Judge. Sows by Brandywine, Budweiser, Old Clipper and Spotted Giant. Priced to sell.
J. O. RILEY & SON - CAINSVILLE, MO.

DEMING RANCH QUALITY

BIG-TYPE POLAND CHINA HOGS.
See our show herd at Topeka, Free Fair, Kansas State Fair at Hutchinson, and Oklahoma City. Fifty spring boars for sale. Six hundred head in herd to select from.
H. O. Sheldon, Herd Manager
OSWEGO, KANSAS.

TOWNVIEW HERD BOARS

Ten big stretchy fellows farrowed in June. Every one a good one. Two choice fall yearlings. I ship my boars and gilts any place on approval. They make good. Prices are right.
CHAS. E. GREENE, Peabody, Kan.

OLD ORIGINAL SPOTTED POLANDS

Stock of all ages, 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

FAIRVIEW POLAND CHINAS.

Heavy-boned March pigs, either sex. Eighty to select from. Prices reasonable. Write us your wants.
P. L. WARE & SON - PAOLA, KANSAS

OLD ORIGINAL SPOTTED POLANDS

March and April pigs for quick sale.
H. A. or Paul H. Mattox, Burlington, Kansas
Langford's Spotted Polands.—Last call for early spring boars. Yours for good hogs—
T. T. Langford & Sons, Jamesport, Missouri.

POLAND CHINA HOGS 150 HEAD IN HERD

Breeding stock for sale. Immune. Satisfaction guaranteed. Come and see me.
V. O. JOHNSON - AULNE, KANSAS

POLAND CHINAS

For Sale—Ten fall yearling gilts, bred for September farrow to Dalebanks Hadley and King Jumbo; twenty-five spring boars ready for service; twenty-five spring gilts open. One hundred and fifty head registered hogs in my herd. Write today what you want.
E. L. BARRIER - EUREKA, KANSAS

Henry's Big Type Polands

March and April pigs, sired by Big Wonder, first in class at Topeka; Mammoth Orange and King Price Wonder. Immune.
JOHN D. HENRY, LECOMPTON, KANSAS

POLAND CHINA HOG SALE

At Clifton, Kansas
SATURDAY, OCTOBER 13

TWENTY-FIVE HEAD SPRING BOARS AND GILTS
THE TOPS FROM MY HERD

Twelve Spring Boars
Thirteen Spring Gilts

These pigs are by Special by Blue Ribbon Quality by Taxpayer 2d and out of my best herd sows. They are not fat, but in good condition. Send for catalog and come to my sale. Farmers and breeders can buy useful breeding stock.

ARTHUR ANDERSON
Clyde - - - - Kansas

White Oak Park Polands

Outstanding herd boar prospects by 1,100-pound Missouri Jumbo 210461 and 1,000-pound Long Big Joe 227387, twelve-inch bone. Dams popular big-type breeding. If you want boars that will mature to 1,000 to 1,100-pound hogs, I have them. Big high-quality fellows. Fall boars farrowed August and September, spring boars February and March. Will record in buyer's name. All immune.
Henry Koch, Edina, Missouri

Jones Sells On Approval

Large-type spring boars and gilts of fashionable blood lines at reasonable prices. Herd immune.
W. W. Jones, Clay Center, Kan.

FARM AND HERD.

There will be a combination commission sale at Wichita, Kansas, during the second week of the International Wheat Show. About 125 Shorthorn cattle will be sold on Tuesday, October 9. This sale will include ten straight Scotch bulls, all of them good individuals and very fashionably bred; also twenty Scotch top bulls and five double-standard bulls. The cows and heifers are good individuals, some of them pure Scotch and practically all of them with five or more Scotch tops. The cattle were bred in Iowa, Kansas and Oklahoma. Twenty-eight herds are represented. On Wednesday, October 10, S. T. Tuttle & Son, of Caldwell, Kansas, make a dispersal sale of their entire herd of Shetland ponies, including thirty-five stallions from yearlings to aged horses, and 130 mares and colts. On Friday, October 12, fifty second hand automobiles will be sold.

F. P. Wilson & Son, of Doyle Park Stock Farm, Peabody, Kansas, report their Shorthorn herd doing fine. This firm owns one of the high class herds of Shorthorn cattle in Kansas. They have the popular blood

HOLSTEIN SALE

Union Stock Yards, South Omaha, Nebraska

October 16, 1917

Fifteen Nebraska breeders will consign

SEVENTY HEAD OF QUALITY HOLSTEINS

FOURTEEN BULLS AND FIFTY-SIX COWS AND HEIFERS
All are guaranteed breeders and free from tuberculosis.

There will be three young bulls from dams with A. R. O. records above 30 pounds, besides several young daughters of 30-pound bulls and forty cows that are bred to 30-pound bulls.

A BIG FEATURE of this sale is a yearling bull whose dam and sire's dam average 35.06 pounds butter in seven days.
Write for catalog.

DWIGHT WILLIAMS, SALES MANAGER
103 Bee Building Omaha, Nebraska

HOLSTEIN CATTLE.

CLYDE GIROD, At the Farm
HOLSTEIN FRIESIAN FARM, TOWANDA, KANSAS
BREEDERS OF PURE-BRED HOLSTEINS

We offer special attractions in choice young bulls, ready for service, both from tested and untested dams, at prices within reason. Let us furnish you a bull and improve your herd.

IT WILL PAY YOU TO SEE OUR OFFERING
of high grade young cows and heifers, all springers, in calf to pure-bred sires, large developed females, good udders, nicely marked and the right dairy type at prices that challenge comparison for Holsteins. A visit to our farm will convince you. Keep us in mind before purchasing. Wire, write or phone us.

GIROD & ROBISON - - - - TOWANDA, KANSAS

HOLSTEIN CATTLE.

F. W. ROBISON, Cashier Towanda State Bank
HOLSTEIN FRIESIAN FARM, TOWANDA, KANSAS
BREEDERS OF PURE-BRED HOLSTEINS

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GIROD & ROBISON - - - - TOWANDA, KANSAS

MAURER'S HOLSTEIN FARM

Is offering anything you might desire in pure-bred and high-grade Holsteins of exceptional merit. They are the RIGHT KIND and at the RIGHT PRICE.

For further particulars wire, phone or write.
T. R. MAURER & COMPANY - - - - EMPORIA, KANSAS



HOLSTEINS AND GUERNSEYS

High grade cows and heifers, carloads or less. Calves crated and shipped anywhere, price \$20.

F. W. WALMER
Way Side Stock Farm - Whitewater, Wis.

FOR SALE

Registered Holstein Heifer Calves, 3 to 5 months old. Bull Calves, 1 to 2 years old. A. R. O. backing. Also milk cows.
BOCK'S DAIRY, Route 9, Wichita, Kansas.

Segrist & Stephenson, Holton, Kan. Breeders exclusively of pure-bred prize-winning record-breaking Holsteins. Correspondence solicited.

Butter Bred Holsteins

Buy your next bull calf from a herd that won the butter test over all breeds.
J. P. MAST - - - - SCRANTON, KANSAS.

DUROC JERSEYS.

15 Duroc Spring Boars

Sired by Illustrator O'Rion 3d and Fancy Victor and out of my best herd sows. They are real herd prospects, selected from 91 pigs raised. Write today if you want a good spring boar.
John W. Petford
Route 1 Saffordville, Kansas

IMMUNED DUROCS

With size and bone. Bred sows and males a specialty. 150 early pigs; pairs and trios, no kin. All immuned. Satisfaction guaranteed. C. G. Ditmars & Co., Turney, Mo.

WOOD'S DUROCS

Boars, sows and gilts. Best lines of breeding.
THE WOOD DUROC FARM
F. F. Wood Wamego, Kansas

DUROC BOARS

Thirty-five spring boars by G. M.'s Crimson Wonder, Crimson Wonder Again Jr., Critic D, and Great Wonder, out of my best herd sows. Priced to sell. Come and see my herd.
G. M. Shepherd, Lyons, Kansas

FORTY DUROC-JERSEY BOARS

Cholera immuned, of rare breeding and excellent individuality. Sired by Gold Medal 176231, R. L.'s Model Chief 105673, Taylor's Model Chief 126455. Order yours now. Our prices are reasonable.
W. R. HUSTON - AMERICUS, KANSAS

HARRISON'S DUROCS

Pure-bred Duroc boars.
W. J. HARRISON - AXTELL, KANSAS

Royal Grand Wonder Durocs

The first prize junior yearling at Kansas State Fair heads my herd. A few choice March boar pigs for sale. Come and see my herd.
B. R. ANDERSON, R. 7, McPherson, Kansas
lines and their herd is made up of a choice lot of individuals. A feature of their herd at this time is the choice lot of young stock, including a number of outstanding bulls sired by Orange Marshall and Star Goods.

GOLDEN BELT HOLSTEIN HERD

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

HOLSTEIN CALVES

Very high grade heifer calves, five weeks old, nicely marked, \$25 each delivered to your station. We can supply you with registered or high grade Holsteins, any age or number, at reasonable prices. Clover Valley Holstein Farm, Whitewater, Wisconsin.

CHOICE HOLSTEIN CALVES

Twelve heifers and two bulls, 15-16ths pure, beautifully marked, five weeks old, from heavy milkers, at \$20 each. Safe delivery and satisfaction guaranteed.
FERNWOOD FARM, WAUWATOSA, WIS.

Braeburn Holsteins

Always A. R. O. Bull Calves, better than the common run. Just now a few females to make the herd fit the stables.
H. B. COWLES
608 Kansas Avenue Topeka, Kansas

AYRSHIRE CATTLE.

SOUTH FARM AYRSHIRES

300 HEAD.
75 Animals Imported from Scotland. 143 cows have qualified for advanced registry. Males and females for sale.
SOUTH FARM
WILLOUGHBY - - - - OHIO

JERSEY CATTLE.

120 Jersey Cows and Heifers

Pure-bred and high grade. Forty bred yearlings, superior individuals, all from profitable dams, now for sale.
J. W. BERRY & SON, Jewell City, Kansas

Registered Jersey Bulls, butter-bred, from high producing cows. Photo furnished. Maxwell's Jersey Dairy, Route 2, Topeka, Kan.

REDHURST JERSEYS

Will Be Sold at Public Auction October 1. We have thirty cows in the Register of Merit, and many others that will qualify. This is the best lot of producers to be sold this year. Don't fail to write B. C. Settles, Sales Manager, Palmyra, Missouri, for large catalog which will be ready about September 20.
Redmon & Son - Tipton, Mo.

REGISTERED JERSEYS.

Cows, Heifers and Calves. Good breeding. Good individuals. Must reduce herd. Price reasonable.
C. F. PFEUTZE
Route 4 Manhattan, Kansas

Your tractor is only as good as your engine ←

Correct lubrication will extend the life of the tractor as well as insure the maximum power delivery of your engine.

If unsuitable oil is used, you are inviting premature depreciation of the whole tractor. In other words, the investment of a few dollars a season in a lubricant manufactured especially for tractor service will add to the profits on a season's crop. High priced oils do not necessarily mean they are suitable tractor lubricants.

We Recommend for Cylinder Lubrication of Tractors

STANOLIND **Gas Engine Tractor Oil**

WHERE KEROSENE FUEL IS USED

It is an oil of great durability and maintains the correct viscosity under extreme heat conditions. It lubricates thoroughly even the remotest reciprocating surfaces, reducing friction to a minimum.

It is equally efficient for stationery gas engines as well as for lubricating the bearings of all types of harvester machinery and heavy gearings of tractors.

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WHERE GASOLINE FUEL IS USED

WHERE HIGH SPEED CONDITIONS OBTAIN, REGULAR
POLARINE GRADE IS RECOMMENDED

NOTE—Our recommendations are based on extended and exhaustive tests under actual field conditions.

Write to our nearest agency for specific recommendation of correct lubrication of your tractor.

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Manufacturers of Special Lubricating Oils for Leading Engine Builders and Industrial Works of the World.