

KANSAS FARMER

FOR THE IMPROVEMENT



OF THE FARM AND HOME

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Commencement At K. S. A. College

For forty-seven years the Kansas State Agricultural College has been serving the people of the state in educational ways. It has had a varied history. Established in the stress of the Civil War, when men's minds and hearts were engrossed with what seemed to them more vitally important questions than education, it had a small beginning, although it was fortunate in having had its way paved by another institution which it absorbed. With poor equipment and less sympathy from the people who then had but hazy ideas of what an agricultural college should be or what it might become, its first years were devoted to a considerable extent to a continuation of the work that had been begun by its predecessor.

Ten years later it was thoroughly reorganized upon an industrial basis, and prominence was given to agriculture and the mechanic arts, to foster which the institution had been established. This marked the second epoch in its history. Other important events were the creation, by acts of Congress in 1887, of the Experiment Station, about which there existed ideas that were as indefinite as had been those about the college itself, and the passage of the famous Morrill Act.

Beginning in a pioneer land under stress of great combat and with ideas as to its purpose and usefulness but poorly defined, this college has increased in size and strength, until now it is reckoned first of its kind in the world. In its growth it had two important battles to fight. One was to get away from the old methods of education in which all students were given the same training and all fitted for the same work in life. The other was to blaze a way toward the new education which has for its object the training of the whole man so that he may use his eyes and his ears and his hands as well as his memory. Its struggles have been many and its triumphs great.

The fourth great epoch-making period in the history of this institution was marked by the advent of the present administration, which placed in charge men who had been thoroughly trained for their work and who brought with them well defined and clear cut ideas as to how to carry it forward. While the State Agricultural College has been recognized for years as a power for good in the training of the young men and young women of the land for future usefulness as good citizens and productive elements in our economy, there has still clung to it a little touch of the old traditions and methods from which it is now able to free itself. Recently the course of study was so arranged that it was possible for a student to spend two years in the institution without getting anything of agriculture, domestic science, the mechanic arts or other features for which the institution distinctly stands. With the advent of the present administration all this has been changed, and the student enters now directly from a district school into classes where he gains instruction in these studies for which the college exists and for which the student goes to Manhattan.

Statistics show that a very large percentage of the young people, even in the most cultured of the states of the Union, receive little of instruc-

Interesting Epoch in the World's Greatest Agricultural College

tion in schools beyond what is given them in the primary grades. The new course of study at Manhattan is so arranged that whether the student shall complete the required course and graduate or whether he shall be less fortunate and stay only a few months, he shall have had something of a training in those branches which are distinctive of the institution and which are so closely allied with the dominant industries of the state.

The new administration also has expanded the idea embodied in the word extension, and has perfected plans by which the college shall be carried to the hearts and homes of those citizens of Kansas who are unable to leave their work and sit in its classes, to a greater extent than was ever possible before and, it is believed, to a greater extent than is being done by any other institution.

While the Agricultural College enrolls approximately 2,500 young men and young women in its several

courses of study each year, and while this aggregates an enormous number during the life history of the institution, it still remains true that without the extension department of work the numbers of citizens of the state who would come directly under its tuition and influence would be but small. With this department of activity the number is immensely increased in the 282 farmers' institutes over which the college now has supervision and to which belong 12,000 members. With the greatly enlarged scope of work planned by the college authorities, this number will be doubled or trebled.

The college also reaches the people of the state in various other ways, all of which are to their advantage. Prominent among these is its publication of the bulletins of the Experiment Stations and the conduct of demonstration work by a corps of trained experts who devote their entire time to the welfare of the agricultural in-

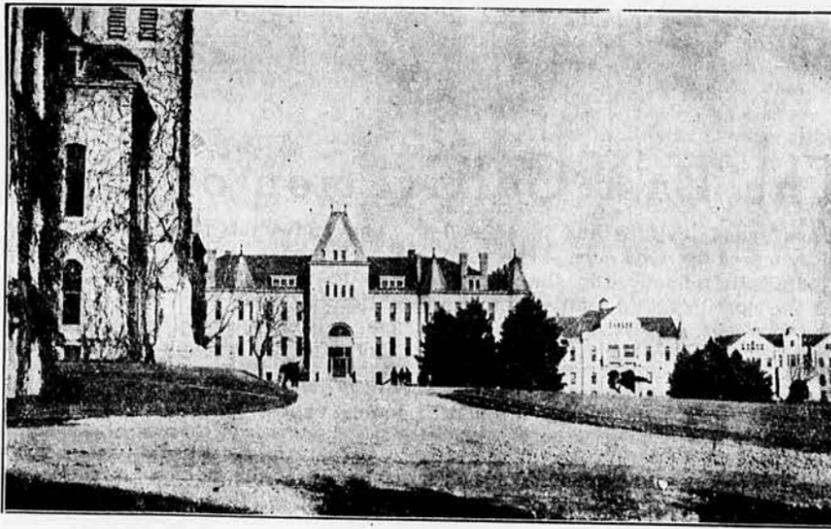
terests of the state at large. In this demonstration work is included the improvement of farming methods and growing crops for pure seed on both county and private farms; the work of expert orchardists and entomologists in the spraying and caring for the orchards and gardens of the state; the work of other trained experts in the construction of dairy barns and silos and the instruction of their owners in the best methods of dairy practice; the skilled advice of an expert highway engineer who devotes his time to the instruction of county and municipal officers in the building of roads and bridges, drains and sewers, and last but not least the sending out all over this broad state of trained women experts who conduct movable schools in cooking and sewing, and thus hold institutes of domestic science whose value to the homes of the state cannot yet be estimated.

The work of the college years culminates in Commencement, when the institution is able to send out the graduates who are samples of its work in the making of men and women. The forty-seventh annual Commencement of this institution was held on June 16, and the event was characterized by the large number of its graduates, the immense crowds in attendance, the beautiful weather and the perfect manner in which the exercises were conducted. Certificates in Domestic Science were granted to 62 young ladies and special certificates in domestic science for teaching were granted to nine other young ladies. Certificates in Agriculture were given to 18 young men and in Military Science and Tactics to six others.

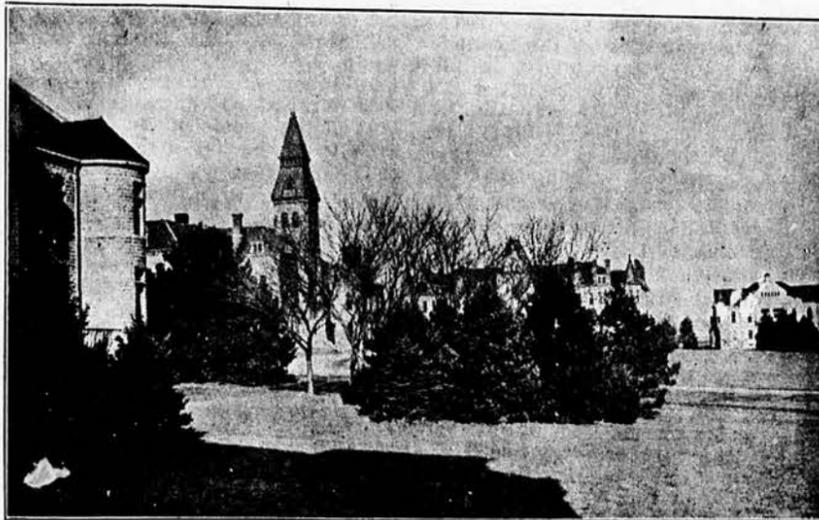
The degree of Bachelor of Science was conferred in the Division of Agriculture upon 8 agriculturists, 13 agronomists, 5 animal husbandmen, 6 dairy husbandmen and 7 veterinarians. In the Division of Engineering the Bachelor's Degree was conferred upon 10 mechanical engineers, 15 electrical engineers, 7 civil engineers, 3 architects and 1 printer. In the Division of Domestic Science and Arts 51 young ladies received the Bachelor's Degree in Domestic Science; while in the Division of General Science the graduates numbered 15. In addition to these the degree of Master of Science in Mechanical Engineering was conferred upon one bachelor graduate and in Bacteriology and Agronomy upon one. The total number of degrees conferred was 143 and of certificates 95.

The annual address was given this year by Hon. Willis L. Moore, Chief of the United States Weather Bureau, whose subject was, "The Wonders of the Air." If there is anything that Kansas people might be supposed to be interested in it is the weather conditions and what produces them, and Chief Moore certainly could not have asked for a more attentive audience. In describing the work of his great department, Professor Moore took oc-

The road selected at Garden City was a part of the Santa Fe road leading south from the station. The work was begun at the foot of the sand hills on the southern side of the Arkansas River. From the starting point the grade rose about 6 per cent, or perhaps a little more, for a distance of about 500 feet, and then ran level for some distance. To give this heavy



Anderson Hall, Chemistry, Agriculture and Horticultural Buildings at the Kansas State Agricultural College.



View on the campus of the Kansas State Agricultural College showing some features in landscape gardening.

(CONTINUED ON PAGE TWO)

Government Roads in State of Kansas

grade a hard surface was of the utmost importance, because it was impossible with the funds available to reduce the grade, and a change of location was out of the question.

About 300 yards east of the road a deposit of gypsum clay was found and uncovered, and from this pit were taken 68 cubic yards. It was abandoned because of the heavy sand between the pit and the road, and for the additional reason that the sand could be stripped from a gypsum deposit near the road and material obtained there more cheaply. This pit was immediately on the roadside and promised sufficient material for the completion of the contemplated section. It proved a wise decision to use this pit, for it was found that it improved in quality as the excavation became deeper. It showed greater tenacity and bonded much better than that from the first pit.

Because the road was practically level in the cross section, no preparation at all was made in the subgrade, except to stake out the center and side lines in order to guide the teamsters in hauling. The proposed width was 12 feet of clay, and for this width a full load was dropped on either side of the center and a half load in the middle between the sideloads. The whole was spread as evenly as possible by hand and hauled over as fast as it was spread. All weak and defective places were re-enforced as soon as they appeared, and the proper crown was formed as the work proceeded. An effort was made to add the clay to a depth of about 9 inches and a width of 12 feet, but, since there were no shoulders and since 12 feet made too narrow a road, the material was allowed to spread to 14 feet, so that the clay tapered off 12 inches on the sides. In this simple manner the entire section of 765 feet was constructed. The operation so far consisted simply in hauling gypsum clay and spreading it evenly on the road in a straight line and to an even depth and width. During this time the public was allowed undisturbed use of the road, and was even invited to use it for the purpose of packing the surface.

After this packing was accomplished, fortunately a very heavy rain fell and effectually saturated the clay and the sand beneath it. The road was then harrowed with a toothed harrow to break all the lumps on the surface and to prepare it for the sand which was next to be added. For the

One of the things that impresses the visitor to Kansas, who comes from the older corn growing states, is the small amount of cultivation that is given to that crop in this state. The Illinois farmer thinks nothing of cultivating his corn four or five times, while the Kansas farmer does not need to spend so much time in his field. Great interest has been manifested in this crop of late, and several things have developed from it.

The corn shows have been of immense value to city people as well as farmers, and all have learned the worth of good seed. Not all, however, have learned the fact that good seed

Commencement at K. S. A. College

(CONTINUED FROM PAGE ONE)
casion to pay a high tribute to Congressman Charles F. Scott of Kansas, who in his capacity as Chairman of the Congressional Committee on Agriculture, had been able to do more for the agriculture of the United States, and especially for the corn belt states, than any other man who ever sat in the halls of Congress.

Following the exercises of Commencement there was given a banquet to the Alumni, Faculty and invited guests which was prepared by the Domestic Science Department and which amounted to an innovation. Heretofore, there have been held triennial banquets by the Alumni Association, generally on the evening of Commencement Day. At this banquet, which was held at the noon hour, there were seated 210 people, all of whom had deep interest in the college and through this a mutual interest in each other. It amounted to a family reunion, and was presided over by the President, who acted as Toastmaster in a most happy manner. In the

How the Government Instructs the Farmers by Object Lessons

BY W. L. SPOON, CIVIL ENGINEER

sanding a heavy two-horse turning plow was used and the sand was back-furrowed up to the clay on both sides. A common drag was then used to pull the sand upon the clay and the harrow was used to mix them. Finally, after several draggings and harrowings, the road was left for travel. After one year the same road was visited and was found to be as firm and hard as macadam. The people are so well pleased that they have continued the construction entirely across the sand southward for a distance of 17 miles.

Cost.

At Dodge City a part of the Minnesota road was selected. This road, like the one at Garden City, was south of the Arkansas River in the sand hills. The sand here made so serious an obstacle that the road was little used, and travelers preferred to go a mile or more out of the way to avoid it. A search for clay revealed, near the middle of the section to be improved, a deposit of sediment from an irrigation ditch. This deposit was about 18 or 20 inches thick and extended over an area of 3 or 4 acres. It was decided to use this material, because it was the only thing at hand. Accordingly it was plowed as deep as two horses could pull the plow. It was then found to be dry enough to granulate perfectly, and consequently it was in fine condition for loading into wagons and spreading on the road. The loading was done by hand and common farm wagons were used. For the wagon boxes the material used was 2 by 4-inch scantling for the bottom and 1½ by 10-inch planks for the sides; all were 11 feet long. Two by 6-inch scantling is perhaps better for the bottoms than the dimensions given above, because this size requires less handling.

The preparation of the subgrade was made in advance of the clay hauling and was done in the following manner: Unlike the work at Garden City, a subgrade of definite form and width was prepared. During the construction there was no rain and dust formed an inch or more deep. Into this a large amount of sand was harrowed, and the road was finally covered with a

layer of sand in preparation for rain. When the rain came the sand was completely absorbed by the clay and an additional application was required to overcome the tendency to stick. This was added after each rain and worked in as opportunity allowed. The clay also cracked quite deeply when it dried out, and to meet this contingency more sand was added and worked into the cracks with the drag. Shoulders were plowed up on either side in the same manner as at Garden City, and sand was pulled upon the clay with a two-horse grader. A large grader was also used to dress the road and to pull sand upon the clay; but still better was the drag scraper for sanding the clay. This method proved the most satisfactory of all. By this means all high places on the roadside were graded, and the sand thus obtained was used to cover the clay. The use of the drag scraper was found far more expeditious than hand work. No roller was used on this work, but the travel was so distributed as to roll every portion of the road evenly.

The road has shown its ability to withstand travel and has converted what was formerly a little-used road into one of the most heavily traveled roads leading into Dodge City. It has clearly demonstrated the value of a good road. Formerly the farmers who had to travel along it were seriously considering the advisability of selling their farms and going where the roads were better. Now they easily haul 60 bushels of wheat with a two-horse team. In fact, the usual benefits which are brought about by good roads were quick to follow the successful outcome of this work inaugurated by the Office of Public Roads.

The following is a summarized statement of the work on the two roads just described and the cost of the different operations:

Garden City, Kan., Santa Fe road; date of construction, October 12 to 20, 1908.	
Dimensions of road:	
Length of road, feet.....	765
Width of road, including ditches, feet.....	30

Width of part clayed, feet...	12
Depth of clay, inches.....	9
Work of construction:	
Clay hauled, cubic yards...	256
Surface clayed, square yds.	1,020
Cost of construction:	
Stripping clay in pit.....	\$7.17
Plowing up clay in pit.....	210.50
Loading clay by hand into wagons.....	33.00
Hauling clay to road.....	39.50
Spreading clay on road....	10.00
Sanding, harrowing and finishing road.....	2.33
Total.....	102.50
Cost of clay on road per cubic yard.....	.40
Cost per square yard of part clayed.....	.10
Rate per mile.....	707.45
Dodge City, Kan., Mineola road; date of construction, October 22 to December 10, 1908.	
Dimensions of road:	
Length of road, feet.....	9,750
Width of road, including ditches, feet.....	30
Width of clay, feet.....	14
Depth of clay and sand composition, inches.....	11
Work of construction:	
Earth excavated, cubic yds.	2,539
Clay hauled, cubic yds.....	3,703
Surface clayed, square yds.	15,167
Cost of construction:	
Foreman for work.....	\$51.50
Filling from barrow pit....	9.00
Excavation (2,539 square yards).....	387.69
Shaping subgrade (15,167 square yards).....	70.00
Plowing up clay.....	54.875
Loading clay by hand.....	470.00
Hauling clay to road.....	608.38
Spreading clay on road....	93.00
Harrowing and mixing clay and sand.....	6.00
Sanding road and building shoulders.....	107.685
Dressing road with grader.	27.00
Work on bridge, timber, etc.....	59.53
Repairs, water boy and sundries.....	3.75
Livery for experts.....	49.00
Miscellaneous.....	100.00
Total.....	2,097.41
Cost of road per square yard of clay.....	.138
Rate per mile.....	1,135.83

The Last Cultivation of Corn

without good culture and good soil will not produce good corn. The yield is materially influenced by the amount and the quality of the cultivation the plant receives. An excellent practice is to harrow the field after the corn has been planted but before the young plants have grown to any height, in order to destroy the young crop of weeds. This will have to be followed of course by cultivation, and with the modern two-row cultivators is not so serious a matter.

The universal practice is to lay corn by at a certain period of its growth, without giving it further attention. Good work, however, demands that later attention be given in some fields or in some seasons. This may be done by cleaning out the rows with a five-toothed cultivator, with the double shovel plow or even with a small harrow. Either of these serve to break the crust that may have formed after the last rain, and destroy the weeds which have started. Much

of the crab grass and cockleburrs can be cleaned out in this way and the next year's labor will not be so heavy. If the ground was plowed deeply before the corn was planted, the surface cultivator is believed to be the best for Kansas conditions, as it will destroy the weeds, create a soil mulch and not interfere with the root growth of the corn plant. Corn needs its lateral roots to brace itself against the wind, as well as to absorb plant food and moisture from the soil. Working it through by deep cultivation destroys the root system between the rows, and compels its readjustment between the hills.

confidence in the continued usefulness of the Agricultural College and Experiment Station, and a belief in its future. Backed as he is by the men who head the various departments, and whose equals are hard to find, President Waters has reason to look forward to the most loyal support of the people of the state in the great work he has undertaken.

The success of this institution means much to Kansas. Her dominant industry has always been agriculture and probably always will be. Her position among her sister states is due to the success of the farmers who have carved a state from the great American Desert, and in doing this have trained themselves to a high degree of efficiency and progressiveness. Such a college as this could not exist in many of the states of the Union because the citizenship would not need or demand it. Peculiar conditions have combined to produce the Kansas Agricultural College, and its future will depend upon the men who are selected to control its various departments.

It was a pioneer among all institutions in this country in developing personal interest in home making. The Department of Domestic Science has seemed to outgrow other departments of the college and is now housed in one of the largest structures on the grounds, yet it has not grown faster than the need for it, nor as fast as our modern conditions will demand. Home making should always have been an important feature of farm life, as it has been in some few other phases of our modern civilization, but it has never reached the point which its importance demands and which it now bids fair to reach under the impetus given it by the Agricultural College of Kansas.

If there is any one place in Kansas that is representative of the state; if there is any one place that is typical of the people; if there is any one place that illustrates the progress made here from savagery to civilization, or if there is any one place that forecasts the future of this great commonwealth, that place is to be found on the campus of the Kansas Agricultural College.



KANSAS FARMER

EDITORIAL



THE USES OF STATE FAIRS.

Too many people fail to appreciate the real value and importance of the modern state fair because of the history and reputation of older fairs managed under old methods. The modern state fair is a new institution which has sprung into existence almost entirely within the last ten or fifteen years. It has for its object the placing of a state on exhibition and the teaching of the people through object lessons.

Too often the state fair is thought of by the average citizen in much the same light as is the circus. It is thought to have been gotten up and managed by a group of men whose prime object is to make money. To these people its only value lies in its quality as a show. Those who attend the modern fairs such as have reached prominence in the corn belt states, have learned something different. The show feature is always present, and those who seek entertainment or excitement can easily get their money's worth. The fair, however, is much more than this, and its real value lies in the educational influence it has upon those who attend.

The citizen who derives the greatest benefit and enjoyment from a state or county fair is he who makes an exhibit of his live stock or farm produce. It is he who learns that there are many more advantages to be derived from a state fair than merely excitement or entertainment, and it is he who ought to learn that there are a great many advantages to be derived from making exhibits other than those represented in the premium list. It is true that the premiums are always an incentive, and it is also true that the money received by those who win prizes very frequently compensates them for an extra time or labor they may have invested in the preparation of their live stock or farm products for exhibition. The greatest benefit that can be derived from a fair is derived from the exhibitor who makes up his mind early in the season to become such and who spends that season in preparation. He will give his crops or his live stock or poultry much better care than he would if he were not planning to exhibit. In doing this he not only produces better animals, grains or grasses, than he would otherwise have done, but he produces a better man than he would otherwise have been. By this attendance he secures an opportunity to talk with other exhibitors and learn about their exhibits and the methods which produce them. In doing this he exchanges ideas with his fellows, and in this exchange there is no robbery, because both are the gainers. Seeing is believing, and in no place can one see so much that interests him in his business, in his social and business life, as he can at a well regulated state fair. The man who attends this state fair reaps large benefits for the small expenditure of time and money it has cost him. The man who exhibits at a state fair is doubly benefited.

It is estimated that at least two-thirds of a tree is wasted in our present system of lumber manufacturing, and the Department of Agriculture has taken up a study of how to save the enormous waste of our forest products by devising methods of making cheaper print paper; the distillation of wood alcohol from stumps; the manufacture of turpentine from sawdust and other waste and the preservation of standing timber from damage by insects and fungus diseases. To aid in the accomplishment of this, the department has established, in connection with the University of Wisconsin, a Forest Products Laboratory which is thoroughly equipped with men and means.

The Crop Reporter, published by the Department of Agriculture, gives a map showing the wheat condition of the United States. This shows that the general condition of wheat in Kansas to be 13 per cent below the 10 year average on June 1. That for Nebraska 21 per cent below, South Dakota, 2 per cent below, while Oklahoma is 5 per cent above and Texas 27 per cent above, though the latter state has but a small area in wheat.

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IS CANADA BETTER?

The efforts of the Canadian government and railroad officials to induce American farmers to immigrate to the great wheat lands of the Saskatchewan and Manitoba are proving successful and these farmers are going in thousands. It is the old story of the Eldorado, the lure of the unknown, the hope for better things just beyond. Conditions of pioneer life, of severe climatic conditions, of isolation and hardship are overlooked in the inspection of the glowing pictures of wealth in that land which are conjured up by the imagination, aided by the seductive literature of the colonization agent.

The fever of migration is very "catching." It infects many and is difficult of cure. Like the treatment of other infections there is sometimes vastly more in prevention than in cure.

This wanderlust is a disease which cannot be quarantined against nor is a spray effective, but it may be successfully controlled by a little hard thinking. If the blizzards which are said to be manufactured at Moose Jaw, and the short cropping seasons which limit agriculture to a few cereals are no deterrent, then the hardships of pioneer life and the stubborn fact that these Canadian farms cost as much as do better ones in the United States may do so.

The Canadian wheat fields are held up as the promised land of the poor man, the land in which he can secure a farm by his own labor and with but little expenditure of money. This is true, but he can do the same right here in Kansas. The cost of the farm in the one case is no greater than in the other. New lands in the irrigation regions are calling for occupants upon the most liberal terms, while in the older states to the eastward it is said to be possible to buy improved farms for about the cost of the buildings on them, and on terms to suit.

It will cost years of strenuous effort to build a farm in the Canadian wheat lands, and these years must be spent in privation and hardship. The same effort put forth in Kansas will accomplish like results, and meanwhile the farmer can get a living and his children a school.

The aviation meeting at Topeka which was announced to take place during "Merchants' Week," was long drawn out. Continuous rains and adverse weather conditions compelled Aviator Mars to postpone his flights from day to day, but with the clearing of the skies on Friday he got busy and afforded the citizens of Kansas their first opportunity to see an airship in flight on their own soil. It may not be generally known that the engines used in airships are unable to develop the same amount of power in wet weather as they do in dry. Though the wait was a long one, the crowds in attendance on the days of the flight were very large and very much pleased.

WHAT MIGHT BE.

The conservation of our agricultural resources has had no more active champion than Prof. Cyril G. Hopkins of the University of Illinois. Professor Hopkins has been earnest in his appeals to the farmers of the country, and particularly to those of his own state, to devote special attention to the conservation of the fertility of the soil. In some ways he has taken an extreme position and this has brought forth discussion and in some cases antagonism. Generally speaking his position is a sound one and he has thousands of disciples who follow his teachings carefully. In his earnestness to advance his doctrines and teachings he has sometimes seemed to become somewhat pessimistic, and this is illustrated by the following statement which is credited to him by the daily press. It carries with it a warning and is worthy of perusal and reflection:

"History tells us that Roman agriculture declined until a bushel of seed brought only four bushels in the harvest—declined until the high civilization of the Mediterranean countries passed into the dark ages which covered the face of the earth for a thousand years, until the discovery of a new world brought new supplies of food, renewed prosperity, and new life and light to western Europe; but the dark ages still exist for most of our own Aryan race in Russia and in India, where, as an average, day by day, and year by year, more people are hungry than live in the United States, where the average wage of a man is 50 cents a month, where famine rages always, and where the price of wheat sometimes rises to a point where six months' wages of a working man are required to buy one bushel. This is the condition where the absolute needs of the population exceed the food supply; and just so sure as the intelligent and influential men and women of America continue to ignore the material foundation upon which national prosperity depends, just so sure will future dark ages blot out American civilization."

ADDRESSES WANTED.

Every once in a while some persons write us and forget to give their postoffice addresses, or overlook signing their names to their communications. Some such letters coming to us contain money, and of course we are unable to acknowledge same, or give credit where credit belongs. Just at this time we have letters from the following named persons, in which no postoffice addresses are given:

- J. L. Graves,
- Mrs. James Ewing,
- Fred Osthoff,
- T. F. Price,
- J. H. Cunningham,
- L. B. Courter,
- Walter A. Hoffhine.

If your name is in this list, kindly write, giving us your postoffice addresses, and your communications will have our prompt reply.

PROGRESS IN CONSERVATION.

Iowa has a State Drainage, Waterways and Conservation Commission whose duties include, among other things, an investigation of the entire question of the relation of the state to its waters, forests, soils and minerals, and the presentation of the conditions of public drainage in the state and the benefits which can be derived by securing the best and most economical engineering and administration of drainage projects. It is also required to investigate the present conditions of all overflow or flood plain lands and show the losses due to floods in their destruction of farm crops and other property. They are also required to accurately survey at least one river of the state, and ascertain the available sites for dams and the potential water power existing.

The preservation and culture of the forests of the state with reference to their future development and the influence they may exert upon flood conditions of the streams, and the erosion of soils is required. They must further investigate the question of the wise and conservative development and use of the mineral resources, especially of coal.

This Commission has been in operation about one year, and has published its first report. It is evident that the Commission had its origin in the condition which demands a large amount of drainage in a state, as well as in the general interest which is now being taken on questions of conservation.

While perhaps no one can question the value of such a commission, the question as to whether this is the most satisfactory way to handle it is a legitimate one. The commissioners are appointed by the Governor, and naturally from among his friends. Their work has been well done as evidenced by the report, but the method seems to indicate that the Legislature has created at least six new offices which may have been necessary under their conditions.

In Kansas all this work and much more is done by the State Agricultural College Extension Department, working in harmony with the officers of the Experiment Station. The Kansas method has this to commend it. Every man to whom is assigned a duty in connection with the fostering of our agricultural interests or the conservation of our natural resources, is a trained expert who is paid for devoting his whole time and energy to the service of the state. Familiarity with the situation in both states warrants the conclusion that the Kansas method is much the better and the results obtained more comprehensive and more directly available to those most interested.

Since an army officer has been so successful in the prosecution of the work of building the Panama canal it is now proposed to place the entire reclamation project under the control and management of an army engineer, and this might prove a wise move.

The Florida, which is America's greatest battleship, and which has just been launched, will cost \$6,000,000. Wouldn't that amount of cash help a lot in the reclamation service or in the conservation of our natural resources?

HAVE YOU A DAM?

Have you a dam on your farm? If so, what use do you make of it? Do you use it for power, or could you use it for such a purpose? Would the employment of water power be economical on the farm? Is there a waterfall on or near your farm, and could this be utilized for power? Could either the dam or the waterfall be made available for irrigation purposes? Send us your experiences in using water for either power or irrigation and in building the dams. A good photograph of a dam, a site where one could be built or of a waterfall would look well in the KANSAS FARMER. If you have such photographs or can get them, please send them.

THE KANSAS FARMER Co.

THE FARM



True Clean-Cut Work

The advantages of KEEN KUTTER Bits which make them so superior to others is that they cut faster, are longer lived and are good for more different kinds of work. They require less filing than other bits, and work much easier. It is the combination of adaptability and serviceability which has made all

KEEN KUTTER Quality Tools

famous—from the simple home set to the complete sets for use in the shop and on the farm. Do not get the idea that in paying a little more for any KEEN KUTTER tool you are paying for the name. You are not; you are paying for what the name stands for.

It is not the name that makes the tool good; it is the tool that makes the name good.

Sold for over forty years under this mark and motto:

"The Recollection of Quality Remains Long After the Price is Forgotten"
Trade Mark Registered. —E. C. SIMMONS.

If not at your dealer's, write us.

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St. Louis and New York, U. S. A.



Bermuda Grass.
Shortly after the flood season of 1903 there developed a considerable interest in the question of building dikes for the protection of agricultural lands against inundation. With this interest came the inquiry as to what should be used to protect these dikes against erosion. Among other things Bermuda grass was suggested. This seems to have developed an interest in this grass in Kansas which has spread far and wide.

Bermuda grass is undoubtedly the best grass that grows in the south; also it undoubtedly has qualities which recommend it to the farmer of Kansas in certain sections. It has a wonderful root system and a more wonderful growth above the ground. It is a creeping perennial which produces nodes or joints at short intervals in the stems. Each of these nodes is capable of producing a new plant by sending out roots, and the growth is so rapid that the stems have been known to extend as far as fifteen feet from the original roots in one season. In addition to producing new roots at each node of overground stem, where it touches the ground, the plant also develops underground stems near the surface which extend outward several feet. Under favorable conditions Bermuda grass will cover the soil so densely as to exert a very beneficial influence in the retention of soil moisture and, as it has the ability to grow and flourish in poor soils and sandy land, and to thrive under closer pasturage than other grasses, it is especially valuable where it can be grown without winter-killing.

The peculiar habit of growth makes it of special value in the prevention of erosion in soils, and of the binding together of loose and shifting sands. There is no question of its value as a protector for dikes, though it must be kept free from shade as it does not thrive well except in sunshine. It is also valuable in restraining and rendering stable the shifting sand hills which exist in certain localities, as well as in filling up gullies by arresting soil deposits from the water which passes through. It will hold up steep banks and prevent land slides, and proves a valuable element in a lawn grass mixture for certain localities. It is a heavy yielder of hay, which it produces in good quality and large amounts. It may be mowed from one to five times each season with a yield ranging from one-half to two tons for each cutting.

During a recent visit to western Kansas, along the Union Pacific Railroad, the writer inspected a small plot of Bermuda grass belonging to a farmer who has a good deal of interest in this plant and the many uses to which it can be put. Last year the plot developed a very considerable growth but suffered from winter kill. This year it is growing fairly well although the wet season seems to have been against it somewhat. It develops a very thick, fine mat of sod which promises abundant yield for either pasture or hay, though it is thought to be doubtful if it can be grown that far north successfully on account of the winter season. In southern Kansas it has been found useful and has been grown as a successful pasture grass. It makes an excellent sand hills grass, provided some care is taken in getting it started. It will prevent the drifting of sandhills and will furnish an excellent pasture in these regions which are now almost wholly valueless for such purposes. Several farmers who are familiar with it testify to their belief that this grass can be made useful in Kansas agriculture at least as far north as the Arkansas river.

Being a tropical plant it has been a little difficult to secure the seed, though most of the larger seed houses now supply it. The seeds develop slowly and it is found very much more practical to secure a start by root cuttings rather than by the slower method of sowing the seed. Of course this grass will thrive better on good corn land than anywhere else, but it will also grow on sandy land

and cut lands and washes where it is especially valuable. It is not injured by overflows, and the only thing which seems to prevent its general adoption into Kansas agriculture is the danger of winter killing.

Barriers Against Bugs.

Both field investigation and correspondence carried on by Dr. T. J. Headlee and Assistant J. B. Parker of the entomology department of the Agricultural College shows the outbreak of chinch bugs to be widespread and severe throughout the state. Already the wheat and oats are badly damaged and a horde of young bugs are on their way to other fields.

The entomological department has just issued a press bulletin describing an effective method for the destruction of these bugs. It seems that as soon as the wheat and oats are ripe they are deprived of their green forage and like any army they start a march towards a new base of supplies. This base of supply happens to be the nearest corn field, and for that reason the farmers are urged to prepare for the attack. There are only two ways to head off this march and these are by the construction of barriers and traps.

A trap strip works in this manner. By the time the bugs get out of a field they are hungry and stop on the first row of green stuff they can find. Now if this happens to be the row of green stuff that was planted for a trap, all the farmer has to do is to slip up on the bugs, cut the strip, pile straw on it and burn the strip, or plow it under.

Dust or coal tar barriers have proved very effective. There is one thing certain, when the food supply of the bugs is gone, they must go or starve. Bugs have a hard time getting through dust, so if a strip is plowed along the corn field and the ground thoroughly pulverized it renders the strip impassible. Then, if post holes are dug on the side near the wheat the bugs will fall into them in their efforts to find a crossing place. A little kerosene in the hole and a match will add the finishing touches. The one great objection is that rain would render the barrier absolutely worthless.

The best barrier is obtained by the use of coal tar. This is made by flaming a narrow strip of hard ground and placing a narrow line of coal tar about three-fourths of an inch wide along the inner side of this strip of hard ground. Coal tar is offensive to the bugs and they refuse to cross it. Plenty of post holes for them to fall into complete the scheme. If the bugs get into the first few rows of corn they may be killed by drenching them with a kerosene emulsion.

Assistant Entomologist Parker emphasizes the fact that if the corn is not protected by some such method there is every promise that the damage to the crop will be heavier than that sustained last year.

At no time is there so good a chance to attack the bugs as when they are abandoning the wheat fields, for they must move or starve and the farmer has a chance to catch them coming and thus not only save his crop but keep them from going into winter quarters. Now is the time to act.

Caring for the Pastures.

Land that is down in good pasture is numbered among the most productive acres of the farm. This is admitted to be true on the dairy farm, but experience teaches that it is no less true on the beef and pork farms. The pasturing of grass land should be judiciously done, however, or damage may result. Either there must be an abundance of pasture for the number of animals to be fed, or cross fences must be arranged so as not to pasture one tract all the time. When land is grazed too much, particularly in the spring, the root crowns are exposed to the increasing heat rays of the sun and the vigor of the grasses is injured. This with the trampling of the stock will ultimately kill out the pasture and in its place will be found a field of weeds, ready to do their ut

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An Absolute Cure for Moon Blindness

(Ophthalmia), Cataract and Conjunctivitis

Shying horses all suffer from diseased eyes.

A trial will convince any horse owner that this remedy absolutely cures defects of the eye, irrespective of the length of time the animal has been afflicted. No matter how many doctors have tried and failed, use "VISIO" under our GUARANTEE. Money refunded if under directions it does not cure. \$2.00 per bottle, postpaid on receipt of price. VISIO Remedy Ass'n., 1951 Wabash Av., Chicago, Ill.



The Hoe that Saves Labor



THE True Temper Special never grows dull. It is made in such a way that you sharpen it by using it. Think what that means in saving of time, labor and expense.



The True Temper Special has a thin plate of hard tool-steel welded firmly to the front and bottom half of the mild steel blade.

As the mild steel wears away gradually in use, the sharp edge of the tool-steel is left always exposed.

Sold by hardware dealers everywhere. If your dealer does not handle, write us and we'll see that you are supplied.

American Fork & Hoe Co.
Largest Manufacturers of Farm and Garden Hand Tools in the World



Always Successful **BLIZZARD** Ensilage Cutter

Cuts any feed dry or green and elevates any height. No waste power. Can't strain. Has the only knives adjustable while running. Self feed. Mounted or unmounted. Every machine tested and GUARANTEED. A labor-saver and money-maker. Ask for free Book, "WHY SILAGE PAYS."

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Jos. Dick Mfg. Co.
1415 W. Tuscarawas St.
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After all claims for Stack Covers have been carefully considered; after all covers have been subjected to the severest possible tests,

"Baker" Stack Covers Guaranteed Full Weight stand apart and alone as the one Stack Cover you should use if you want your hay saved from the rain. Look for and find the "Baker" Trade Mark. Write us for names of dealers near you selling genuine "Baker" Stack Covers.

BAKER & LOCKWOOD MFG. CO.
Established 1870
622 Wyandotte Street Kansas City, Missouri

1 MAN AND ONE HORSE

Do Your Baling Cheaply
Our Daisy SELF-THREADING, self-feeding one-horse hay press is the only one on which one man can do all the work. First successful self-threading device. Self-feed, automatic condenser increase results. Open side hopper. Five days free trial. Write today for prices and reports of actual work.
GEO. ERTEL CO., Quincy, Ill.



A MARSEILLES GRAIN ELEVATOR

Will pay for itself in one season in time saved. They handle successfully Ear Corn, and all kinds of small grain. If you are not familiar with the advantages of this machine write us for Catalog A.

JOHN DEERE PLOW CO.
Kansas City
Denver Oklahoma City

most to seed the balance of the farm and so increase the labor of the farmer.

It is the wise thing to clip the pasture from time to time with a mowing machine in order to prevent weeds from reseeding. The cycle-bar can be set high enough so as not to materially injure the grass crop, and as most of the weeds are annuals, which depend upon reseeding for their propagation, the use of the mowing machine is an effective means of keeping down the weeds. Pasture land is doubly valuable in that it gives immediate returns in beef or milk, and renders the ground rich and ready for annual crops. A little care exercised in the handling of the pastures from now on will pay.

Ten Commandments of Agriculture.

Dr. Seaman A. Knapp, who is in charge of cooperative demonstration work, U. S. Department of Agriculture, has designed the ten maxims that follow, as the Ten Commandments of Agriculture. They are:

1. Prepare a deep and thoroughly pulverized seed bed, well drained; break in the fall to the depth of 8, 10, or 12 in., according to the soil, with implements that will not bring the soil to the surface. The foregoing depths should be reached gradually.
2. Use the seed of the best variety, intelligently selected and carefully stored.
3. In cultivating crops, give the rows, and the plants in the rows, a space suited to the plants, the soil and the climate.
4. Use intensive tillage during the growing of the crops.
5. Secure a high content of humus in the soil by the use of legumes, barnyard manure, farm refuse and commercial fertilizer.
6. Carry out a systematic crop rotation, with a winter cover crop on southern farms.
7. Accomplish more work in a day by using more horsepower and better implements.
8. Increase the farm stock to the extent of utilizing all the waste products and idle lands of the farm.
9. Produce all the food required for the men and animals on the farm.
10. Keep an account of each farm product, in order to know from which the gain or loss arises.

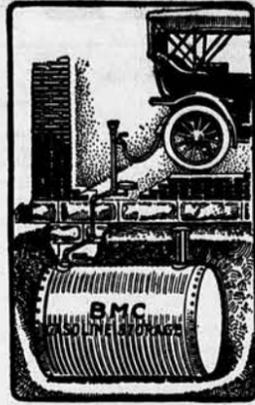
Growing Corn for Cob Pipes.

Probably not one smoker in a hundred who likes the "real American pipe"—the corncob—is aware of the fact that many acres in Ohio, Illinois, Missouri and Nebraska are devoted to raising corn for the especial purpose of producing cobs suitable for fashioning into pipe bowls. The grain itself is marketed, of course, but the cob on which it grows is the real harvest, and is cut carefully into proper lengths, smoothed and polished, the soft inner pulp being gouged out by specially constructed machinery. It is possible to buy a set of corncob pipes in a nest of six, with amber mouthpiece, mounted in silver, that will cost as much as \$7.50. The growing of the corn for cob pipe purposes and the manufacture of the pipes by machinery are the conception of one of the tobacco trust's experts. The corncob pipe now goes to every country in the world where men smoke, and is especially in favor in Australia and New Zealand, where it is regarded as characteristically American, because it suggests the idea of Yankee ingenuity. The brier is the favorite with Englishmen, who are probably the greatest pipe smokers in the world.

Secretary Coburn states that a grower in southern Kansas who harvests about one thousand tons of alfalfa per year, and is working with it nearly every day from the second week in May until November 10, insists that alfalfa, under the same conditions of rainfall, is much easier to save in fair feeding condition than red clover. He finds the side-delivery rake especially excellent for turning over the green or wet windrows to the sun and air with the least loss of leaves, and cured thus, after being wet, the natural color is better preserved. "That alfalfa hay has a higher feeding value than almost any other, even when saved under the most unfavorable circumstances, should be impressed upon the inexperienced."

This wet weather admonishes us to look after the growing chicks and keep them high and dry out of the rain.

Save 25% on Your GASOLINE! ROOFING

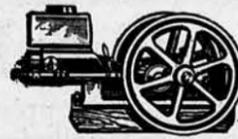


Automobile Owners, Gasoline Engine Owners, ALL users of Gasoline, who buy at retail: You pay 4c. to 6c. more per gallon than necessary. Buy Gasoline at Wholesale, and Store it in this Safe Underground Farm Tank that Soon Saves You Twice Its Cost. With a simple, safe, strong, handy, Underground Tank on your place, dealers will give you a big reduction, or you can have oil companies deliver gasoline to you at wholesale prices. Then — you have gasoline as you need it — just like pumping water — tank is out of the way — much safer than cans, barrels or tanks above ground — no danger of fire — no oil wasted by leaks, spills or evaporation — no trouble to fill — no cans to carry to and from town.

B. M. C. Underground Tank For All Gasoline Power Users

The B. M. C. Underground Storage Tank is of heavy, special, tight-coated, galvanized steel — corrugated sides multiply strength many times. No rust, no wear-out. Special B. M. C. all-brass, double-acting pump. We urge you to investigate, to learn exactly how farmers save 25 per cent on their gasoline. Write right now for descriptive circular and delivered price.

BUTLER MANUFACTURING COMPANY
1429 W. 10th St., Kansas City, Mo.



GALVANIZED, CORRUGATED, STANDING SEAM, Etc.

Cheaper Than Shingles Will Last 30 to 40 Years

Lightning proof, fire proof, hail proof. Anyone can put it on, over old shingles or on skeleton frame. Just the thing for barns and all kinds farm buildings. No painting. No other roofing of like cost has all these merits. Write for prices, catalog and samples.

This ad. will not appear next week.

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When writing advertisers please mention Kansas Farmer.

THE BAILOR PATENTS:

Two row cultivator, gets them. Two rows at a time, and that without the hired man. Drop us a card, we want to tell you about it
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Fish Will Bite

Like hungry wolves at all seasons if you use **FISH LURE**. It keeps you busy pulling them out. Write today and get a box and Complete Fishing Outfit to help introduce it. Enclose 2c stamp. **Michigan Fish Bait Co., Dept. 4, Port Huron, Michigan.**



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Some Interesting Facts About Overlands

Our 800 dealers now are selling over \$200,000 worth of Overlands daily. That's a far larger sale than was ever attained by any other car in the world

Some of the Users

The Government is one of the Overland users. For a year and a half some of these cars have been used in carrying the mails. For 500 days they have made their regular trips, winter and summer, without a moment's delay. Each of these cars has done the work of three horse-drawn vehicles.

The J. I. Case Threshing Machine Company some time ago supplied 25 Overland cars to their country salesmen. They report that one man with one of these cars can do two salesmen's work.

The Altman & Taylor Machine Co. have also begun to supply Overlands to their salesmen.

We have recently built delivery car bodies on 900 Overlands for the use of storekeepers who want them for use as light delivery cars.

All Due to Simplicity

All these new uses for Overlands are due to their utter simplicity. A novice can run one as well as an expert.

The operation of the car is by pedal control. One goes forward or backward, fast or slow, by simply pushing pedals. The hands have nothing to do but steer.

Overlands are almost trouble-proof. The usual complexities have been avoided. One of these cars has been run 7,000 miles, night and day, without stopping the engine.

A child can master the car in ten minutes. Any member of the family can run it. And a car that

is relied on to carry the mails is the car which will always keep going.

\$3,000,000 Plants

Over \$3,000,000 has been invested to produce Overland cars in a perfect and economical way. The cars are made—as watches are made—by modern automatic machinery. Thus we get exactness to the one thousandth part of an inch. And thus every part is made exactly like every other similar part. All parts are interchangeable.

Because of this machinery and our enormous production we are able to make cars for less than any one else.

This year we are selling a 25-horse-power car, with 102-inch wheel base, for \$1,000. We are selling a 40-horse-power Overland, with 112-inch wheel base, for \$1,250. And these prices include all lamps and magneto.

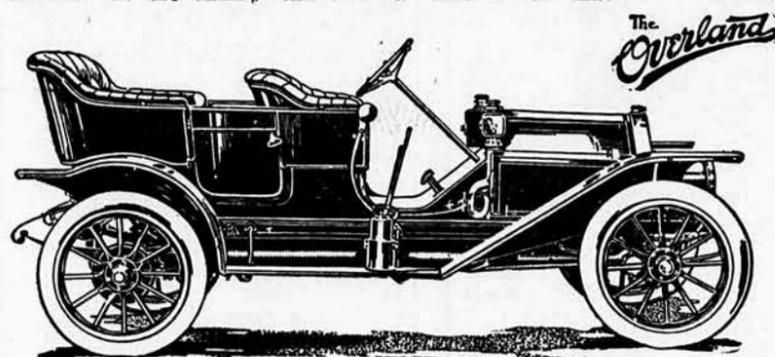
During the past year alone we have cut the cost of Overlands 20 per cent by multiplied production and this labor-saving machinery.

10,000 Tests

The various parts of each Overland car are subjected to 10,000 rigid inspections. Then every car, before it goes out, is given a long trial run on rough roads. One of our test roads includes the worst hill in Ohio.

Thus we know that each Overland is a perfect car before it leaves the shop. There are no mistakes.

Those are part of the reasons why Overlands have now come to outsell all other cars that are made. You will want the car which others want when you learn the facts. If you will send us this coupon we will mail you our catalog. We will also tell you the nearest place where you can see the cars.



The 25-horse-power Overland costs from \$1,000 to \$1,100, according to style of body. The wheel base is 102 inches. The 40-horse-power Overland costs from \$1,250 to \$1,500. All prices include five lamps and magneto.

THE WILLYS-OVERLAND CO
Toledo, Ohio H17
Licensed under Selden Patent
Please send me the catalog free



HOME CIRCLE



Country and Town.

Men of the country, free as the air,
Surrounded by sunshine of the morn-
ing fair.
Rise in the morning, light of heart;
Beauty of the morning don't soon de-
part.
Sweet odors of blossoms on every side,
Soft rays of the sun have just espied.
Wee birds chirp as the sun they be-
hold,
Ah! life in the country never grows
old.

Man of the town, for thee alas!
Nature gave you but little grass.
Rise in the morning, 'mid hustle and
din;
Back to your work, by way of the inn.
Beauty of the morning has upon you
no hold,
But alas, if you'd look, your eyes
would behold:
Smoke from the houses, and dust from
the street—
I sigh for you, town man, your sur-
rounding's not sweet.
—F. Lincoln Fields.

The Woman and Farm Life.

Woman, mother, the farm, the boy,
the girl! A picture of the perfect life
presents itself before me. The whole
joy of life centers about the woman.
She is the sustaining, the influencing
force of every household. Good moth-
ers, good women—and we have the se-
cret of life manifested. The greatest
resources and the greatest conserva-
tion in the world are those of num-
erous forces. Conservation of the boy and
girl—to conserve, to develop powers
in the boy and girl. I believe it the
duty of every mother, of every
teacher, of every one coming in con-
tact with the child, to bring out in
that child from the very first unfold-
ing of his mentality, a love of nature,
a love of plant and animal life,
whether in the city, town or country
school. The boy and girl from the
first lesson should begin with nature
study, surrounded with flowers or
plant life, bunches of grain or grasses,
colored pictures of birds.

The mother at home should walk
out with the little child and pick the
wild flowers or listen to the warbler's
song. A mother, no matter what her
household demands or social duties,

is not a mother if she finds no time of
day to spend with her child. A true
mother will instinctively feel the hun-
gry interest of the little child in all
that pertains to nature. The child
loves nature and the little mind is full
of eager questions. Sad, indeed, is the
child who has never tasted the joy of
his own little garden. The agricultural
life begins with the mother. Then in
the elementary school it can be car-
ried on most delightfully. Bird talks
and insect life, food products and how
they are grown—but not in the school
room alone; they must go out in the
fields and woods among the trees and
flowers, watch the growing corn or
grain, the cutting of the hay, the pre-
paring of the land. And with animal
life, whether wild or domestic, see in
each God's work for all.

I am tremendously inspired with
what I have heard of the John Swaney
school and so proud that it belongs to
Illinois. I hear of that school all
over the United States. There is an-
other school in the village of Marshall
near Madison, Wis., worthy of all
praise. Claude Eldred, deserving of
credit, is awakening such an interest
in agriculture among the boys and
girls that even the farmer is sitting
up and taking notice. One-fourth of the
work is agricultural; physical geogra-
phy means something in that school;
the class is taken out among the hills
and with their own eyes study the
moraines; they study the soil, surface,
country around; study the weather,
take the velocity of the wind. Why,
botany is a joy; they live it in the
open every day with the plants of the
farm, the crops, the seeds and the
testing of the seeds. They judge clo-
ver seed, pick out the impurities,
weigh the seed and get the percent-
age. Why, one father sells his clo-
ver seed at 75 cents a bushel more on
account of his 12-year-old boy who in-
terested him. They study corn, they
judge corn.

Another farmer found that 75 per
cent of his herd of 21 cows were
merely boarders, through the work of
his 14-year-old son. That man now
has but 13 cows and his monthly milk
average is 8 per cent better. Filled
up with school life the boy and girl
return home and do something—want
to do something, and that is the way
to develop our agricultural resources.

I do not believe there is a boy or
girl who, under the influence of a good
woman, guided in the right direction
to love the farm life, but would turn
out to be an enthusiastic and success-
ful farm man or woman. Give the boy
or girl a calf or a couple of pigs or a
cow, maybe, or a dozen hens, or a
piece of ground to own and have the
profit—then see the eager little agri-
culturist. The father and mother too
often have made farm life for the son
and daughter so irksome that it has
been uninviting; no wonder they fled
to the city.

Woman can do everything man can
do, and we must walk side by side in
developing the best in every little
child. That child's whole life is go-
ing to be influenced from the start.
Will it be then for good or bad? To
begin with we must teach the mother
and father the art of interesting the
children in what pertains to the pleas-
ure and joy of seeing nature and see-
ing it in farm life.

Nature seems to have a hallowing
effect that makes a man or woman
better for being in touch with it. It is
the duty of every girl to know some-
thing of agriculture, for if she be-
comes the wife of a farmer—or per-
chance she may become a farmer her-
self—she will be so interested in the
production of the crops, the breeding
of the cattle, that the homely duties
of the household will not appear so
irksome and monotonous.

I, a woman, am speaking for the
woman; I have her interests at heart;
I would inspire her to look at farm
life differently than of old.—Mrs.
Grace G. Durand, Lake County, Ill.

It is not yet too late to order that
setting of pure bred eggs.

But you must hurry, or wait for an-
other year before getting a start in
pure bred poultry.

10,000 Bushels a Day

of selected white corn are required to supply the de-
mand for the original—the never successfully imitated—

Kellogg's TOASTED CORN FLAKES

From field to mill and back to you — quality is
the first consideration in its manufacture. The
distinctive flavor — the unapproachable whole-
someness—the greatest sale of any flake food in the
world is the result. But you must get the genuine.

Look for This Signature

W. K. Kellogg

Kellogg Toasted Corn Flake Co., Battle Creek, Mich.
Canadian Trade Supplied by the Battle Creek Toasted Corn Flake Company, Ltd., London, Ontario



\$20.00 Up. Catalogue FREE.

\$45.00

\$20.00 Up. Cash or Credit.

AGENTS WANTED

We want men who are not actively
engaged in business to act as our
agents. We pay liberal cash com-
missions. Write for our catalogue
and full particulars.

ON CREDIT

Buggies

Only \$10. Cash.
Balance \$5 a month. Warranted for 3 years.

Surreys

Only \$25. Cash.
Balance \$7 a month. Warranted for 3 years.

Farm Wagons

Only \$15. Cash.
Balance \$5 a month. Warranted for 3 years.

We trust honest people located in all
parts of the world. Cash or easy monthly
payments. Write for our free catalogue.

CENTURY MFG. CO.,
Dept. 825 East St. Louis, Ill.

YOUNG MEN WANTED—To learn the
Veterinary Profession. Catalogue sent
free. Address **VETERINARY COLLEGE,**
Grand Rapids, Mich. 6 LOUIS STREET.

30 FINE POST CARDS ONLY 10c. Birth-
days, Best Wishes and Landscapes. Ger-
man-American Post Card Co., Dept. 33, Bur-
lington, Ia.

Admiral Percales

36 inches wide
**10 CENTS
A YARD**

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LIVE STOCK



Once a Scrub, Always a Scrub.

A writer in an eastern farm paper goes to some considerable trouble to defend the scrub as against the pure-bred, and states that "they come in for a great amount of abuse from the writings of stockmen and breeders, yet nine-tenths of the meat produced to feed our millions is derived from scrub stock. How many thoroughbred calves go to the markets as veals? How many thoroughbreds of other animals than cattle are rushed off to the slaughter pens? Take for instance the 'razorback' hog. We hear much of this breed. Well, the 'razorback' had his origin back in the years when hogs were more plentiful than corn. In the spring time the brood sow was turned out in the woods to pick her living as best she could and bring forth her brood. Through the summer and fall she fed on beech and chinkapin nuts or delved into the soil her length in search of roots, and when the winter winds began to blow the farmer brought them in, razorbacks sure enough. But now methods have changed and the razorback, though still a scrub, is the source of much wealth. Environments do change, in material if not in name.

"It does not require a fortune to secure and build up a scrub herd, and the cost of purchase being much less one can afford to add more for feed and shelter, and thus in time we will have a thoroughbred 'scrub' breed."

While it is undoubtedly true that the bulk of our market stock are scrubs, it is equally true that the more pure blood found in this stock the more nearly does it reach the top of true, but not until the good ones are gone, and never for the top price. The question of raising scrubs or pure breeds is simply a question of dollars and cents. Farm land has increased so much in value that the owner cannot afford, as a business proposition, to raise for market anything that will not bring a profit and find a ready sale. One of the best ways to insure a profit is by economical production. Economical production is rarely possible without a good equipment and a good equipment for the production of beef or pork is pure bred or high grade animals that will feed well, mature early and turn the greatest percentage of feed into market.

The same is true in the dairy, and the writer destroys his own argument when he states that a scrub herd can be built into a "thoroughbred scrub breed" by care and the proper selection of a sire. He admits the advantages of the high grade and even the pure bred, but urges his readers to take the slow, laborious and expensive method of "grading up" because the initial cost is less.

It is simply a straight business proposition and the choice lies with the farmer. He can begin with scrubs and by giving them proper care and breeding to a pure sire, improve his herd so that in time he can turn out a good product. If he follows this plan he will have lost time and labor. His stock to begin with is not worth much and will not bring much. As they increase in quality the value and prices will be better, and, after a period of years, he may be able to command good prices that will pay returns on the time and labor invested.

On the other hand, by the expenditure of a few more dollars, he can start at once with animals that have been developed by others and thus save himself all those years of profitless effort besides the greater saving in loss of profits that should have been his.

It is not claimed that this country has reached that stage in which nothing but pure bred animals is desired for market purposes, but it is claimed that the more nearly pure bred an animal is the more economical he will be as a producer, and all the efforts of all the breeders of pure bred animals are needed to prevent deterioration.

The International Expands.

General Manager B. H. Heide of the International Live Stock Show at Chicago, writes that at a recent meeting of the board of directors the follow-

ing conclusions were reached: It was decided to hold the International Horse Show from November 22 to 26, while the International Live Stock Exposition is to cover the usual period, November 26 to December 3, 1910.

It was found that practically all the live stock associations had increased their appropriations for special prizes to be offered in connection with this year's show.

To recognize our breeders as well as our feeders, two additional beautiful silver trophies will be offered by the exposition; one to the breeder of the grand champion carload of fat cattle, and another to the breeder of the grand champion carload of feeder cattle of the show.

A new rule was adopted requiring a three months' ownership of at least twelve of the cattle constituting each carload entered in the fat carload classes, making it necessary to have the exhibitor make affidavit to this effect and to have this affidavit accompany the entry.

It was decided to follow the custom long established by our state fair associations by uniting the Percherons and French drafters in the same classification.

Pure Bred Cattle.

It would be a great pleasure to advise each reader what pure bred cattle to breed for best profits, but I do not wish such a job, but will give my views after some years of experience.

I selected the Double Standard Polled Durhams, after studying all breeds carefully, and am more than pleased with my selection.

I always was partial to the Short-horns, and now, after getting rid of the horns without in any way lowering the standard of the breed, we surely have the ideal breed of the present day, and from the great demand for them I do not seem to be alone in my belief.

The demand for Polled Durhams has been so great that no doubt there has been some kept for breeding purposes that should not, but with the

older and more experienced breeders this has not been the case. Any one who has attended the fairs for the past few years will acknowledge that no breed has made such remarkable improvement as the Double Standard Polled Durhams.

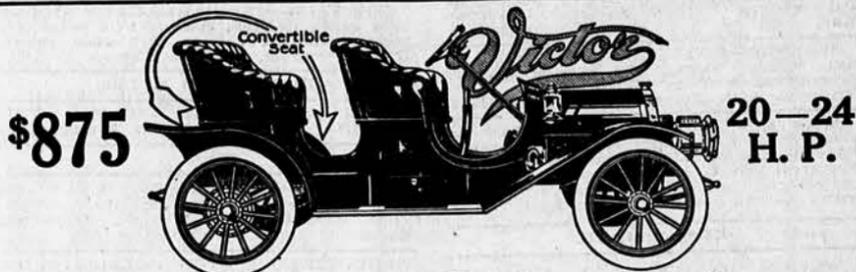
The question of the future beef production in this country becomes an important one and must be produced on our farms, as the large ranges are of the past.

The high quality of the beef productions, their good feeding qualities, the fact that they are hornless and of early maturity stamps the Double Standard Polled Durhams as the ideal animals for beef production on the farm.

As for milking qualities, I never have had to keep a nurse cow. Some of the cows that carry the most flesh are splendid milk cows.—D. C. Van Nice, Richland, Kan.

Recently the Indiana Experiment Station marketed six lots of steers

which had been fed on ensilage as a test to determine the value of that class of feed in beef making. Two of the lots consisted of nine head each and the other four of ten head each. These cattle were valued at \$4.65 per 100 on going into the feed lot, and were fed shelled corn, cottonseed meal, clover hay and corn silage. They ranged in weight when sold at the end of the 160-day test period, from 1,230 pounds for Lot No. 6 to 1,290 pounds for Lot No. 1. They sold for from \$7.75 to \$7.90 per 100, and the profits ranged from \$10.12 to \$13.02 per head. A significant fact about the handling of the steers lay in the statement that one lot which was fed straight silage shrank only 38 pounds per head in shipping, as against an average shrinkage of 50 pounds per head for the six lots. It is claimed by the authorities of the Experiment Station that they have proved that silage is good roughage in cattle feeding, and that it is an element in the economic handling of beef cattle to produce a fair profit.



An ideal automobile for the farmer.

A splendid easy riding car with long wheel base, (108 inches) strong, powerful, yet simple, 2-cylinder motor. Easy to drive and control, a splendid hill climber and a very sturdy car that will stand bad roads. When not needed for pleasure can be converted into wagon bed for hauling to and from market.—Is equipped with Goodrich tires, side and tail lamps, horn, tools, tire repair kit and pump. Price \$875 (wagon bed extra). Victor automobiles are made in all styles from runabouts to 6-passenger cars. Prices from \$725 to \$1500. If you want the best car for the money don't buy any until you investigate the Victor. Send for complete catalogue today.

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Kills Lice and Cures Mange. There is no Remedy on the Market as Good or as Cheap.

It not only kills all lice on cattle and hogs, but all nits, and one application does the work. Does not injure the hair or skin. Can be used in vats or with brush. Also kills lice or mites on chickens. Put up in new 52-gallon barrels and sold for \$5 per barrel. I have used nearly every dip on the market and I say to you, from experience, this oil is better and more effective than any of them. Why pay \$50 per barrel when you can get a better article for \$5? I also sell a heavy Pure Crude Oil as it comes from the well that is a good lubricating oil. 52 gallons for \$3.50; an excellent grease to keep plowshares and cultivator shovels from rusting. When ordering state plainly whether you want the Process Oil or the Crude Oil. Send remittance with the order.

Read my advertisement of refined oil in next week's issue of this paper.
C. A. STANNARD, Emporia, Kansas.

100 - REGISTERED - 100 HOLSTEIN-FREISIAN CATTLE

At South Omaha, Nebr.

TUESDAY, JUNE 28, 1910

CONSISTING OF

- 50—Cows and Heifers in milk or fresh soon—50
 - 25—Heifers and Heifer Calves—25
 - 25—Bulls many of which are ready for Service—25
- All cattle over 6 months old are tuberculin tested

There is a catalogue ready for you, send your name and plan to attend this sale

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HENRY C. GLISSMANN
STATION B OMAHA, NEBR.



LIGHTNING Did Strike

and cause 2165 out of a total of 2960 fire losses to farm buildings during one year in one state, according to an official report of 111 fire insurance companies.

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D & S. Woven Copper Cable Lightning Rod and System of Installation insures absolute safety and protection to life and property from the terrible destroyer, lightning. It is the only system of protection endorsed by the Mutual Insurance Companies of the United States and Canada (2000 fire insurance companies).

You Need It

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The D. & S. Rod Pays for Itself and Then Begins to Save You Money Off Your Insurance Bills

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\$10.00 Sweep Feed Grader | \$14.00 Galvanized Steel Wind Mill.
We manufacture all sizes and styles. It will pay you to investigate. Write for catalog and price list.

GURRIE WIND MILL CO.,
Seventh St., Topeka, Kansas

Readers Market

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POULTRY



Advertising "bargain counter." Thousands of people have surplus items or 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. The "ads" are easy to find and easy to read. Your advertisement here reaches a quarter million readers for 3 cents per word, for one, two or three insertions. Four or more insertions, the rate is 2 1/2 cents per word. No "ads" taken for less than 30 cents. All "ads" set in uniform style, no display. Initials and numbers count as words. Address counted. Terms always cash with order. Use these classified columns for paying results.

HELP WANTED.

WANTED—ECONOMICAL AND PARTICULAR people to take advantage of our prices and services. Western Printing Co., Pts. Dept. of Kansas Farmer, Topeka, Kan.

WANTED—AGENTS TO SELL OUR Western Grown Fruit Trees on commission. Send for terms. Slate Creek Home Nursery, Conway Springs, Kansas.

WANTED—LOCAL MEN TO TAKE ORDERS for high grade western grown nursery stock. Experience unnecessary. Outfit free. Cash weekly. National Nurseries, Lawrence, Kan.

WANTED—GOOD RELIABLE MEN TO SELL nursery stock. We have a splendid proposition to offer. Write today. James Truitt & Sons, Nurserymen, Chanute, Kan.

WANTED—LADY OR GENTLEMAN AS local representative in every Kansas county. Splendid chance to make good wages without great effort and no expense. Write for particulars. Address Circulation Department, Kansas Farmer, Topeka, Kan.

REAL ESTATE.

BUY OR TRADE WITH US. SEND FOR list. Bersie-Merediths, Eldorado, Kan.

WE CAN TRADE YOUR PROPERTY— Book of 500 exchanges free. Graham Brothers, Eldorado, Kan.

NOTICE TO HOMESEEKERS—If you want homes in Coffey Co., Kan., please write for lists. Andrew Burger, Burlington, Kan.

FOR SALE—JEWELL AND MITCHELL county farms. Address J. H. King, Cawker City, Kansas.

FARM LOANS MADE IN ANY AMOUNT from \$500 up at lowest rates and on most favorable terms. Better Realty & Loan Co., Columbian Bldg., Topeka, Kan.

FOR SALE—GOOD FARMS, WELL IMPROVED, in Doniphan Co., Kan. No failure in crops. Price \$35 to \$125 per acre. Earhart Real Estate Co., Troy, Kansas.

IF LAND HUNGRY SEND FOR LIST; an improved, fertile, free fuel farm \$22,500. Hill, Independence, Montgomery Co., Kansas.

50-ACRE HOME, PART IN PRAIRIE meadow, pasture, tame grass, orchard, good house, good barn, splendid water, natural gas fuel, rural route, \$50 acre. F. J. Dumond, Rose, Kansas.

STATE AGRICULTURAL COLLEGE—AD- jacent city and suburban property for sale or rent. Write me what you want. F. G. Kimball, Real Estate Broker, Manhattan, Kansas.

BARGAINS IN WILSON CO., KANSAS farms, also in Fredonia city property. Fine climate, good crops, abundant gas. Write for free descriptions and prices. J. L. Kennard & Son, Fredonia, Kan.

LOGAN COUNTY KANSAS LAND—HALF section, all smooth, station 3 miles, school half mile, half broke out, one-fourth cane crop goes to purchaser. Price \$17.50 per acre, half cash, balance 4 years at 6 per cent. Knop & Thomas, Owners, Versailles, Missouri.

FARMS WANTED—WE CAN TURN A quick sale for you, as we are in close touch with buyers everywhere. Let us show you how to save agents' commissions. Or if you want to buy property of any kind, anywhere, write us. American Investment Association, Minneapolis, Minn.

POULTRY.

BLACK LANGSHANS—EGGS \$1.50 PER 15; \$7 per 100. Baby chicks, 15c each. Mrs. Geo. W. Kink, Solomon, Kan.

GOLDEN WYANDOTTES, ROSE COMB eggs 5 cents each; \$4 per 100. Mrs. John Jevons, Wakefield, Kansas.

FEW ORDERS TAKEN FOR FINE Pheasant eggs, 3 varieties. 1253 Clay St., Topeka, Kan.

FINE BARRED ROCKS—GOOD LAY- ers, farm range, eggs, \$1.00 for 15 or \$1.75 for 30, or \$5 per 100. Mrs. John Yowell, McPherson, Kan.

WHITE PLYMOUTH ROCKS—EXCLU- sively—large birds, good layers, farm range. Eggs May 1st, \$4.00 per 100; \$2.50 per 50. Etta L. Willett, Lawrence, Kan., R. R. 5.

CATTLE.

FOR SALE—ONE CARLOAD OF NICELY bred grade Holstein cows, 2 to 6 years old. Some promising heifers with good colors. H. B. Brownings, Linwood, Kan.

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SHETLAND PONIES—WRITE FOR price list. Charles Clemmons, Waldo, Kan.

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FOR SALE—7 IRISH SETTER PUPPIES from pedigree stock. They are beauties. Thos. Herrick, 81 N. 10th St., Argentine, Kansas.

PEDIGREED SCOTCH COLLIES FROM imported stock, cheap, also Poland China male pigs. John D. Ziller, Hiawatha, Kan.

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PIGEONS! TUMBLERS, FANTAILS, Topnots \$1 and up. Adolph Geyer, Herington, Kansas.

THOROUGHbred FANTAIL PIGEONS yellow, white and black. \$2.25 up. Henry Bohne, Herington, Kansas.

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ALFALFA SEED, TEN DOLLARS. J. H. Glenn, Wallace, Kan.

MISCELLANEOUS.

FOR SALE—NEW HAY TEDDER, never used; splendid tool for clover. Price reasonable if taken soon. H. W. McAfee, Route 8, Topeka, Kan.

DRUG AND GENERAL STORES, BIG profits selling clear cut crystal spectacles. Send for money making assortment. We advertise you. Crystal Optical Co., 213 Temple Court, Atlanta, Ga.

FOR SALE—ONE 4-H P. GAS OR GASO- line engine; one simple type-setting machine, with 400 pounds of type; 7 large wooden pulley wheels; one large two-horse medical wagon. These are for sale, or will trade for real estate. Address P. O. Box 100, Topeka, Kan.

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SEND FOR FREE BOOKLETS—ALL about patents and their cost. Shephard & Campbell, 500 J. Victor Bldg., Washington, D. C.

PATENTS PROCURED AND POSI- tively sold if the idea has merit; all countries. Best service; book free; send sketch. H. Sanders, 115 Dearborn St., Chicago, Ill.

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BUFF ORPINGTONS.

Breeding pens at half price in June. Small deposit right now secures your choice. Book tells all about them—sent for 10c.

W. H. MAXWELL, R. 5, Topeka, Kansas.

BUFF COCHIN EGGS.

From high scorin birds: 15, \$1.50; 50, \$4.00.

MRS. L. O. HOUSEL,

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REDUCED PRICES ON DUCKS.

Indian Runner Duck Eggs. Reduced price. Positively best time of the year to hatch and raise them. Get our prices and valuable book, "Indian Runner Duck Culture." Best book published.

BERRY'S FARM, Clarinda, Iowa.

Growing Geese.

It seems strange that more geese are not raised on the broad prairies of Kansas. They take so little time in the way of attention, and the matter of food is very small where there is plenty of grass, that there is no reason why the raising of them should not be more universal than it is.

The breeding and growing of geese on a large scale for market and egg production, can under most circumstances, be made profitable if conducted in a methodical manner. The chief requisite is to have farm range with plenty of pasture and sufficient water for the birds. It is not necessary to have a small lake; spring water or a running stream will suffice. Neither do geese, as a rule, require much grain; The young in particular will feed almost entirely on pasture. The best of goslings can be grown to about five months of age with less than one peck of grain each, but after that age, if good weights are desired, they must be furnished some grain food. But when they are called "green geese," is a very profitable time to sell them for they bring a very good price and the cost to raise them has been very small. If not wanted for breeders for next year, that is the proper time to dispose of them.

The mature or breeding stock ought to be fed very lightly during the spring and summer months, as over-fattened specimens are usually worthless for breeders. The best varieties for both market and egg purposes are the Toulouse, Embden, White and Brown Chinese and African. As a general purpose goose the Toulouse leads all other varieties. The Embdens rank about the same as the Toulouse as to size, but are much poorer layers. The Chinese, although a small goose, are the best layers. Young Toulouse geese have been produced that weighed at six months of age, from 30 to 34 pounds per pair; the Chinese, however, have to be in excellent flesh to weigh even 25 pounds per pair at that age.

To obtain best results in hatching, it is advisable to use common hens to

Legality of Wills.

Every person is interested in the disposition of his property at his death and should know absolutely that it will be received by those whom he desires to have it, without trouble or expense. Nathan Q. Tanquary, Continental Bldg., Denver, Colo., for more than 20 years has made a specialty of the law concerning wills, estates and diversion of property. No will drawn by Mr. Tanquary has ever been broken. All inquiries by mail or in person are treated with the utmost confidence and given careful personal attention.

D. W. YOUNG STRAIN

Of S. C. White Leks horns, prize winners at three state shows. Eggs, \$1.50 for 15; \$6 per 100. Barred Rocks, "Ringlet" strain, \$2 for 15 eggs. Eggs packed with care.

C. H. McALLISTER, Carmen, Oklahoma.

BARRED ROCKS, 33 prems., Clay Center and Manhattan. Summer bargains. Eggs 15, \$1; 60, \$3; 100, \$4.50; chicks, 15c. Breeders and young chickens. Mrs. D. M. Gillespie, Clay Center, Kansas.

L. M. PENWELL
Funeral Director and
Licensed Embalmer.
511 QUINCY ST. TOPEKA, KAN.

Harness Shop

A \$3,000 stock of new goods will sell at cost and carriage. A good location in a busy town of 4,000. Only two shops in town. For particulars write

TRUMBLY & BARRETT,

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ABILENE NURSERIES

Write for catalog and price list before placing your order. We have the stock that bears fruit, also all kinds of ornamental trees. Forest trees, shrubs, roses and vines. Special attention given mail orders. 10 per cent discount on \$5 order; 15 per cent discount on \$10 order. Cash with order. Mention paper.

W. T. GOUGH & CO., Abilene, Kan.

hatch and care for the young goslings. But after the goslings are eight weeks old they may be safely turned into the fields with the old geese, though to a custom them to this, they should, after a week old, have free access to plenty of fresh, green grass, the more so as no grain food will then be required. Young goslings are very rapid growers and at eight weeks old will be over half grown, if only properly cared for.

To say that goose farming does not pay is a mistake. Not only are the birds valuable for marketing and for the eggs they will lay, but a considerable revenue may be obtained from the feathers by picking the mature specimens some four or five times during the spring and summer months. For that matter, early goslings may be picked during the latter part of August and again in October, provided they are not being fattened for market. It is not necessary to have the best of farming land for goose culture, for geese will thrive quite well on low, marshy land, which has not been under drained. Hence it is that the industry, if thoroughly attended to, ought to prove a financial success, and farmers generally could add considerable to their income by raising geese.

Poultry Notes.

Skim-milk is a good food for poultry. The fat has been taken from it and leaves it proportionately rich in protein, which is a most desirable element in poultry food. It is balanced in about the same proportions as luscious meal. Use it to mix a mash for the fowls. You may also give them as much as they want to drink.

Coal oil is invaluable around a poultry ranch. It is a simple remedy for many troubles. Put it on the roosts frequently; it will help keep the lice in check. Dilute it with sweet oil, about one-third sweet oil to two-thirds coal oil, and inject in nostrils, roof of mouth and corners of eyes, if your fowls have colds. Scaly legs are cured with it if properly applied, and an external dose will help in many cases. An easy way to apply coal oil to the legs and feet of fowls to destroy the insects which cause the scaly excrescences which sometimes appear, is to fill an empty can two-thirds full of water, pour two or three tablespoonsful of coal oil on the water and dip the legs and feet of the affected birds therein. Two treatments generally prove effective.

Regarding the keeping of eggs in cold storage, experts agree that the temperature should be as low as possible without freezing the eggs, and maintained evenly. The proper temperature is from 31 to 33 degrees. The air should be as dry as possible. When eggs are taken out of cold storage they should be used as soon as possible, as they soon spoil when removed to a higher temperature. That is one reason why cold storage eggs are so frequently declared to be no good.

The board of managers of the State Poultry Association met at Wichita on June 10 and decided the location of the next State Show, and transacted considerable other business. There was but one town that made any definite bid for the show and that was Wichita, which as usual made a very liberal proposition, which the managers accepted, and designated Wichita as the place for holding the State Show the second week in January, 1911. The show will be held in the new auditorium now being built in the west. It was decided to have uniform cooping and score-card judging. Judges S. B. Johnson, Fairland, Ind.; Adam Thompson, Amity, Mo., and L. A. Stone, Wichita, will do the scoring. An entry fee of 50 cents per bird and \$2 per pen will be charged. Exhibitors can ship their birds in light shipping coops and thus save considerable on their express bills.

Unless you wish them for breeders for next season, it is money out of your pocket to keep your hens through the summer.

"Red Label" "Knocks" Chicken Lice!

Nearly everybody now knows that it's sure death to any colony of chicken lice that gets up against Whittier's Red Label Lice Killer. It knocks them right and left. No chicken louse can stay in the same place as "Red Label" and live. Yet this marvelous Lice Killer neither harms nor bothers your fowls. One enthusiastic woman writes: "Your 'Red Label' is simply a godsend, that's what it is!"

Cheap, Too!

People who have not used "Red Label" seldom know its cheapness. A gallon of

the solution, ready for use, costs but a nickel—five pennies. There is no excuse to let fowls suffer or for you to lose money by boarding, free, a million or so chicken lice when you can clean out the whole bunch easily, quickly and cheaply with a little "Red Label." Painted on roosts and dropping boards, the fumes kill all vermin. Your druggist or hardware dealer will supply you. If you want an interesting booklet on chicken pests and diseases, send us your name today.

Dr. H. J. Whittier, Pres., Moore Chemical & Mfg. Co., 831 S. W. Blvd., Kansas City, Mo.

WHITE PLYMOUTH ROCKS

(EXCLUSIVELY.)

For 18 years I have bred White Rocks, the best of all purpose fowls, and have some fine specimens of the breed. I sell eggs at a reasonable price, \$2.00 per 15, or \$5.00 per 45, and I prepay expressage to any point in the United States.

THOMAS OWEN,

Station B, Topeka,

Kansas.

DAIRY



Holsteins and Butter-Fat Production.

We are quite likely to follow fads and fashions. We hear a certain doctrine preached till we become believers against our judgment. Holstein Friesian breeders have heard breeders of some other breeds, prate about butter-fat until it has become the popular notion that the per cent of butter-fat a cow gives is the only basis of her value. I believe this a fallacy that should be exploded. Let us not be too much exercised over this one constituent part of milk. For a moment, consider we have been for half a century breeding or professing to breed with the purpose of increasing the per cent of butter-fat in Holstein milk. How have we succeeded? We have learned easily how to increase amount, and we have learned that by getting a cow abnormally fat, we can temporarily increase her natural per cent of fat, and records thus made for the past few years have shown an average fat per cent of 3.46. It is well authenticated history that Professor Hengerveld, more than 60 years ago, found the cows of Holland averaged 3.43 per cent. Does our 3.46 per cent produced under strained conditions lead us to the conviction that a normal condition of our cows will show an increase over that found by Professor Hengerveld? If not so, what of all our efforts? Have our energies been well directed? And is it wise to attempt to transform nature? For my part I want to go upon record as saying I believe and I cannot believe anything else, that 3.43, 3.44 or 3.45, or that milk from 3 to 3.50 per cent is the best milk for human consumption that nature ever has or ever will produce; that butter made of this quality of milk is the best butter, and I think, if we take the best of care of our cattle, rear and use them the best we can, their natural virtues will continue; that we can never change the attributes of their nature, that year after year, one will excel another, one family will by reason of opportunity or otherwise vary in production of per cent of fat, but the progeny of these will fall into the general average of fat, and solids not fat; that we can never permanently change this if we try, and more than all, we should not if we could, since it is indisputable, we have the best already. We know this to be true; let us act as though we believed it and preach it as the fundamental truth of our faith.

To illustrate, I believe the cow that produces 30 pounds of butter in seven days, from milk testing 3 per cent butter-fat, is just as valuable as the other that produces the same amount of butter in the same time, though her milk tests four per cent butter-fat. The sooner we recognize this fact the better for everybody.

In quite a number of the states the general court has attempted to regulate the value of milk by fixing a commercial standard of total solids, fat and solids not fat. I think such legislation was conceived in iniquity, has hampered agricultural interest, and has brought unlimited misfortune, grief, and even disgrace upon thousands of men and women, while it has never accomplished a particle of good.—C. W. Wood, President.

The Dairy Cow.

At present there are only four breeds of special purpose dairy cattle, all others are merely novelties. There should be no prejudice regarding these breeds. Each excels the other under certain environment. It is simply wasting time, feed and money trying to dairy successfully with any other breed. The sooner our dairymen understand this the better for the industry. Of course, there is a difference in special purpose cows, some are much better than others. The high character attained by our modern dairy cow is the result of intelligent selection and the most careful feeding for generations. A highly specialized cow is, in a measure, an artificial product, a complicated machine, requiring skill for its best utilization.

The modern cow is the marvel of the twentieth century. When cows

are capable of producing over their weight in butter annually it is certainly a wonderful performance. Every dairyman, however, who hopes to be successful must thoroughly understand how to manage these highly organized butter-yielding machines.

The development of competent dairyman is just as important as the development of cows. These highly specialized cows require judicious and kindly treatment. Neglect will not only be reflected in the churn, but disastrous and costly deterioration will quickly follow. A generation of neglect will practically undo the work of a century. The culmination of the breeder's art must be supplemented with correct methods of feeding, and proper handling.

Dairy Calf at Meal Time.

About 2,189,600 calves are born in Wisconsin each year, of which number 1,242,700 are from milch cows. About 70 per cent of these calves must be raised on skim-milk. By good care, with proper feeding, several dollars may be added to the value of any calf during the first year. The total increase by this means would amount to millions of dollars to the dairy farmers of the state.

Young calves need whole milk for the first few days. The calf should always have the first or colostrum milk of the cow and be allowed to nurse the cow until the eighth or ninth milking, when the milk is suitable for human food. Feed often with small amounts to avoid over-feeding. Teach the calf to drink and feed whole milk for at least three weeks, changing to a skim-milk diet gradually.

Skim-milk is a cheap feed for calves but should be fed carefully in limited quantities and only while it is warm and sweet. Skim-milk may form the principal diet of the calf for eight months or a year. Factory skim-milk should always be pasteurized to avoid the spread of tuberculosis. The best skim-milk is that which is fresh from the separator and still warm. Experiments show that it is only one-fourth as expensive to raise a calf on skim milk as whole milk. Two pounds grain with the proper amount of skim-milk equals one pound of butter-fat. Buttermilk or whey may profitably be fed to calves.

The grain for calves should be fed first while the calf is quite small with a little bran to aid the calf in learning to eat. High priced concentrates are unnecessary and give no better results than cornmeal, oats and bran, ground barley, etc., when fed in proper combinations. At four to six weeks a calf has good teeth and can grind his own feed. A variety of feeds is advantageous and best results will usually be secured from mixtures.

The roughage for calves should first be fed at two or three weeks of age when the calf begins to eat grain. Good clean hay, either timothy, blue grass, clover or alfalfa may be used. Corn silage is an excellent calf feed when fed in moderate amounts. Good pasture is an essential after four to six months of age, and if the calf is turned out for only a few hours each day at first, scours will be avoided.

The management of the calf during the first year has much to do with its later usefulness. Plenty of water and salt should be given in clean vessels.—Prof. D. H. Otis.

A milk cow in good flow needs a little grain while on pasture. Especially is this true if the pasture is short or washy from wet weather or harsh from dry spells. A cow that weighs 1,000 pounds needs .7 pound of protein, 7 pounds of carbohydrates and .1 pound of fat merely as a maintenance ration. In order to get this from a blue grass pasture she would have to eat 100 pounds of grass per day. If she produces milk she must eat more grass or have a grain ration. The grain ration is a surer proposition both for the cow and her amount of product.

The farmer can beat the doctor a country block by supplying pure, sweet, wholesome milk to his city cus-



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tomers during the hot season. The best the doctor can do is to cure the children when they are ill, but the farmer can prevent their getting ill from the use of impure milk. When he does this he not only saves a lot of suffering but he saves a doctor bill, the amount of which may be spent with him for more milk or eggs or vegetables, and with these the city purchaser secures more health for the kiddies.

A farmer ought to have something to sell every time he goes to town. In furnishing such material the dairy stands first with perhaps the poultry as a close second. At any rate, the dairy can be depended upon to supply a means for ready money at all seasons of the year and in larger volume than most of the "side lines."

Dr. Babb, city milk inspector of Topeka, says that a tuberculous cow may not give tuberculous milk, but then again she may. Whether she does or not, she is a menace because the germs may easily find their way to the milk pail after it is drawn from the udder. Better get rid of a tuberculous cow than assume the risk.

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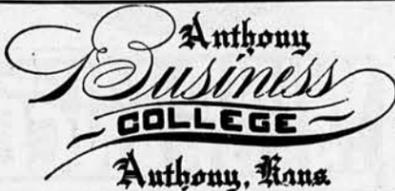
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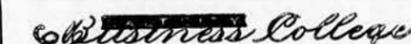
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AN IDEAL FARM FOR SALE. Kansas farm of 300 acres, adjoining a flourishing railroad town, forty miles west of St. Joseph, Mo. The soil naturally rich has been made more fertile by twenty years of judicious crop rotation and by the liberal application of manure; well watered, fine walnut timber, finest blue grass pastures, alfalfa, timothy and clover meadows; finest corn and wheat land; well fenced; hay, cattle and horse barn for a large amount of live stock, large silo, water tanks, granary, fine mill, etc. A model stock and grain farm, ready for use. An excellent opportunity. For complete information address K. 225, care KANSAS FARMER, Topeka, Kansas.

JEWELL COUNTY leads them all, according to Coburn, in corn, alfalfa, poultry, mules, cattle, hogs, honey. Write what you want to GREEN REALTY CO., Mankato, (County Seat), Kansas.

BARGAINS. Improved 1/2 section level farm land, 1/4 mile P. O. and school, 250 a. in cultivation, 100 a. wheat, 1-2 crop goes with place. Price \$30 a. make very reasonable and long time terms. W. B. GRIMES, Owner, Ashland, Kansas.

COWLEY COUNTY BARGAIN. 284 acres, 2 1/2 miles of Arkansas City, 160 acres in Arkansas river bottom land, 40 acres in alfalfa, 120 for corn, 9-room house, bank barn \$3,400, small orchard and windmill. Price \$57.50 per acre. Write R. A. GILMAR, Arkansas City, Kansas.

KIOWA COUNTY BARGAIN. 160 acres improved, 4 miles to town, 60 acres pasture, 80 acres wheat to purchaser. Price \$4,500. 610 acres hard land well improved with share of wheat at \$50 per acre. J. A. BECKETT, Greensburg, Kansas.

WESTERN KANSAS LAND in Logan and adjoining counties from \$11 to \$25 per acre, according to location and improvements. T. E. HALE, Solomon, Kansas.

FOR HOMESEKER OR INVESTOR. Kiowa and Cavalry Creek Valleys, Comanche County, Kansas. Alfalfa land \$20 to \$35, rapidly advancing. Great opportunities for homeseeker or investor. Write for our large list of bargains, mailed free and postpaid. PIONEER REALTY CO., Protection, Kan.

200 ACRES, 10 miles from Delphos, 40 a. pasture, 160 in cultivation, 175 can be cultivated, creek, plenty of fruit for family use. Good house, barn and outbuildings. One of the best corn and alfalfa farms; can be bought for \$75 per acre; 1/2 cash, bal. 6 per cent. Minneapolis, Kansas Box 114.

180 ACRES 1/2 mile from "Baker University" townsite, good rich black limestone soil; 9-room house; two barns, hog sheds, large hay barn; splendid corn and timothy land. Well worth the money. Price \$75 per acre. Wm. M. Holliday, Baldwin, Kansas.

A SNAP FOR QUICK SALE. 3,040 acre ranch, 12 miles this place, creek of fine water running through it, 600 acres good alfalfa land, 800 acres can be farmed, all fenced. Price for 60 days \$11.50 per acre. WILSON & HAVER, Englewood, Kansas.

1,280 ACRE IMPROVED RANCH. 7-room frame house, good barns, granaries and sheds, scale house, dipping vat, fenced, plenty water. 350 acres in cultivation, 14 miles from county seat, 2 miles to new town, on new railroad. A big bargain at \$25 per acre. KIRBERG & MILLER, Ness City, Kansas.

DO YOU WANT TO SELL YOUR FARM? Write us, we will give you good information. Hoffman's Compiled List Report, 328 Sedgwick Block, Wichita, Kan.

640 ACRES, smooth as a floor, 2 1/2 miles station, well improved, 6 room house with double cemented cellar, porch nearly around house, large barn, 320 acres fenced with 3 wires and hedge posts a rod apart; 320 acres in cultivation, good well, windmill and tank. Price \$25 an acre. Terms. Other farms at lower prices. JOSEPH SAGER, Colby, Kansas.

NESS COUNTY 1,520 ACRE TRACT. 80 per cent good farm land. Living springs, shallow well water, all fenced and cross fenced, some imp., 1 1/2 miles from R. R. town. 250 acres cult'd. Price \$12.50 per acre. Come and see. J. G. COLLINS, Ness City, Kan.

THE BEST TOWN TO LIVE IN. If you would like to live in the most beautiful city in the West, with unsurpassed education, business and religious advantages, in a city clean, progressive, where real estate values are low, but steadily advancing, where living expenses are reasonable, a city with natural gas at lowest prices, address the SECRETARY OF THE COMMERCIAL CLUB Topeka, Kansas.

I HAVE SOLD my half section near Colby and now offer fine, smooth quarter 3 miles from Brewster, Kan., no improvements except 40 acres under cultivation, school house across road from it. This quarter is choice and is offered for the small sum of \$2,200 cash. Another smooth quarter, 14 miles from Brewster, 55 acres under plow, sod house, good well and new windmill, and a bargain at \$2,600 cash. These are bargains and must be sold soon. Address IKE W. CRUMLY, Brewster, Kansas.

ROOKS COUNTY. Corn, wheat and alfalfa make big crops every year. We sell these lands at \$20 to \$75 per acre on good terms. These prices are advancing rapidly. Now is the time to buy and get the advantage of the big increase in land values sure to come. Write for further information. CASE & WILSON, Plainville, Kansas.

FOR FREE INFORMATION about Thomas and adjoining counties, write to or call on Trompeter & Son, Colby, Kan.

FOR SALE OR EXCHANGE. Northeastern Kansas corn, clover, and blue grass farms, stocks of merchandise, etc., for other good propositions. Lands are steadily advancing in price; now is the time to invest. Write or see us. C. W. HINNEN REALTY CO., Holton, Kansas.

SHERIDAN COUNTY LANDS MY SPECIALTY. WRITE M. D. GILLOGLY, REAL ESTATE BROKER, HOXIE, KAN.

GOVE COUNTY LANDS \$3 an acre and up. If you want a good home, and an investment that will double soon, write me. THOMAS P. McQUEEN, Treasurer of Gove Co., Gove, Kan.

Rooks and Graham Co. Land In any size tract, at \$17 to \$40 an acre, depending upon improvements and distance from town. Write for new list. Mailed free and postpaid. E. G. INLOW, Palco, Kansas.

WHEAT AND ALFALFA LAND 80 acres, \$800; 160 acres, \$1,600; 160 acres, \$1,500; 320 acres, \$5,600. Terms to suit purchaser. Write for maps and list to L. K. SCHUHMACHER, Meade, Meade County, Kansas.

POOR MAN'S CHANCE 80 a., 2 mi. business part of town of 700 pop., almost new, 5 r. house, barn, and other buildings, orchard, 70 a. tillable, dark, sandy soil, rented for gas and oil, \$1 per a. per year. Owner lives in Colo., therefore is priced at a bargain, \$2,750 terms to suit. B. H. DUNBAR, Tyro, Kansas.

TREGO COUNTY Lands for sale or exchange; prices \$15 to \$40 per acre, also city property and stocks of merchandise. If you have a good trade to offer, no matter where it is located or what it is, write us. ED. PORTER LAND AGENCY, Wakeeney, Kansas.

LAND SNAP 80 ACRES, Anderson County, Kansas, 6 miles from Greeley, 7 miles from Garnett, 60 a. in cult., balance meadow and pasture, 160 acres, joining Harris, Kan., all tillable, 100 acres in cult., balance meadow and pasture. Price \$55 per acre, well improved. SPOHN BROS., Garnett, Kansas.

For Exchange Fine 930 acre ranch 10 miles of Ottawa, Kan. Owner is an old gentleman and wants smaller farm. Price \$45 per acre. Can arrange for difference on farm. Give full description of what you have to offer in first letter. MANSFIELD LAND CO., Ottawa, Kansas.

FOR SALE Sherman county lands, in any size tracts on most liberal terms. Write for prices, descriptions and illustrated literature mailed free and postpaid. IRA K. FOTHERGILL, Goodland, Kansas.

200 ACRES IN LINN CO., 4 1/2 miles of La Cygne, improved, 100 a. bottom, 30 a. tame grass, some timber. Price \$50 an acre. Mortgage of \$3,000. Want car or Western Land. Address Box 166, Salina, Kansas.

NESS COUNTY WHEAT AND ALFALFA LAND. Raw land \$12.50 to \$25 per acre. Improved, \$15 to \$30 per acre. Fine land, no better soil in the state. Good shallow water. Write, or come and see. J. G. COLLINS, Ness City, Kansas.

CHEAP. 312 a. half under cult., 170 a. pasture, 20 a. alfalfa, 8 room house, barn for 14 horses, large mow and granary, 3 mi. from R. R. town. Price \$17,000. J. R. KOHLER, Herington, Kansas.

DOUBLE YOUR MONEY. Buy this 735 a. farm and double your money in 2 yrs., lays 5 mi. from Kansas line in Okla., land no better on Kansas side selling for \$40 to \$50 per a. 2 sets of improvements and schoolhouse on farm, 150 a. in cult., bal. meadow and pasture, everlasting water, good shade, nearly all smooth, 8 mi. from R. R. town, have tel. and R. F. D. This tract just put on the market and will sell quick. You will have to hurry. \$22 per acre. THE BOWMAN REALTY COMPANY, Coffeyville, Kansas.

1600 A. IMPROVED LAND. Four mi. from Meade, nearly all smooth, wheat, corn, and all kinds of grain land. Owner has raised 50 bu. oats, 50 bu. barley, 30 bu. wheat, 35 bu. Kafir corn and 55 bu. corn per a. on said land. Alfalfa can be raised successfully by proper cultivation. 1 mi. to R. R. station and elevator. At present the land is operated as one farm, but could be conveniently cut up into three or four farms. Titles are all good, no incumbrances, good terms can be given if desired. There is about \$6,000 worth of stock; all will go with the place if sold soon, at \$25 per a. 320 a., 4 mi. from county seat, 280 a. perfect and smooth, balance good pasture land. Price \$15 per a. 160 a., 3 mi. from Meade, 5 flowing wells, 65 a. in alfalfa, some timber, fair improvements, in the heart of the artesian valley. Price \$65 per a. HULBERT & BLACK, Meade, Kansas.

SACRIFICE TO COME NOW

If you are going to buy land in Labette County, it will pay you to come at once. Crop prospects are good and prices are jumping. Write for our list and descriptions. Timothy, clover and alfalfa land \$25 to \$50 an acre. DONAHUE & WALLINGFORD, Mound Valley, Kansas.

FINE HOME PROPERTY CHEAP. 12 blocks in the city of Coldwater, two story frame house of 9 rooms, pantry, refrigerator room, 4 closets, cellar and cement cave connected with the house, coal house, chicken house, granary, barn and buggy shed, hundred barrel cistern, well, windmill and tank, fruits of all kinds. Price \$4,500. Call on or address F. H. THORNTON, Coldwater, Kansas.

FOR SALE OR EXCHANGE. Small stock of new and second hand furniture, located in a good county seat town, R. R. division point, good business at a bargain or would take a good quarter of western Kansas land in exchange. Also 1,400 a. ranch, about 400 acres cult., 100 a. old alfalfa, 50 acres new, and 100 acres more will be seeded this year. If not sold, house, barn, windmills, etc. Land not cult. will afford pasture for 250 head of stock; only four miles from good shipping point in north central Kansas. Price \$25 per acre, terms to suit. Will take part trade. LEWIS & ELDRED, Phillipsburg, Kansas.

MEADE COUNTY FARMS 400 farms, 160 to 640 acres, improved and unimproved, at \$12.50 to \$25 per a., easy terms. 320 a. 7 mi. Meade, in German settlement. 300 a. fine tillable land, 160 a. cult., price \$6,400. Experienced salesman wanted. CHAS. N. PAYNE, Hutchinson and Meade, Kan.

MISCELLANEOUS FOR SALE and EXCHANGE

BUY OR TRADE with us. Send for list. Eldorado, BERSIE-MEEDITH, Kansas.

TO EXCHANGE FOR KANSAS FARM. Suburban grocery stock, will invoice about \$3,000. Will assume some of farm. Residence properties in Kansas City and 20 farms, Kansas and Missouri, ranging from 80 to 400 acres each to exchange.

J. E. REED REALTY CO., Kansas City, Mo. 628 N. Y. Life. **TO EXCHANGE**—17-room hotel in southern Iowa to trade for cheap land or stock of goods. Several farms and city property to trade for stocks of goods. I can match any kind of a trade. Henry G. Parsons, Lawrence, Kan.

FOR SALE AND EXCHANGE. Kansas and Missouri farms for city property, stocks merchandise, and other farms. Describe what you have, will make you a good trade. List your farms for exchange with us. R. Woodward Real Estate & Investment Company, 264 N. Y. Life Bldg., Kansas City, Mo.

FOR SALE OR EXCHANGE. Alfalfa land in shallow water district of Oklahoma in 40 to 640 acre tracts, \$20 to \$65 per acre. For particulars write C. B. RHODES R. E. & INV. CO., 4400 Helst Bldg., Kansas City, Mo.

FOR SALE OR EXCHANGE. 240 a. less the right-of-way of the R. R., 1/2 mi. Kincaid, Anderson Co., Kan., town of 500 pop. and 2 R. R., 160 a. fine valley land; 80 a. rolling upland pasture; good new 7-room house; large frame barn; outbuildings; orchard. Price \$50 per a. A snap. SEWELL LAND CO., Garnett, Kan.

WYOMING LANDS

FOR SALE—4400 acre stock ranch 25 miles south of Laramie, Wyo. 1000 acres of water rights. Splendid free range. \$15,000 worth of improvements. \$7 per acre. Terms. The Western Irrigated Lands Co., Laramie, Wyoming.

FREE—220-ACRE Homesteads—Millions of acres; fertile lands, valuable information, laws, maps showing how and where to locate sent for 25c. mailing cost. Western Land Company, K 404, Cheyenne, Wyo.

IOWA COLONY

\$15 lands near Cheyenne, grows crops equal to \$100 lands anywhere. Don't drown out or dry out—have rain enough. Finest climate and water. Mans free. HARTUNG LAND COMPANY, Cheyenne, Wyoming.

1200 ACRES IMPROVED IRRIGATED land 30 miles from Laramie on R. R. Growing hay, oats and alfalfa. 1000 acres state leased land fenced. Lease assigned to purchaser free. Splendid free range adjoining. Valuable improvements, \$26 per acre. Terms. The Western Irrigated Lands Co., Laramie, Wyo.

Official statement of the financial condition of the Bank of Richland, (Private Bank Albert Neese, Owner), Richland, state of Kansas, at the close of business on the 11th day of June, 1910. Resources—Loans and discounts, \$95,823.22; overdrafts, \$1,815.04; expense account, \$727.70; cash and sight exchange, legal reserve, \$32,607.24; total, \$130,973.20. Liabilities—Capital stock paid in, \$10,000; surplus fund, \$10,000; interest, \$2,847.33; exchange, \$63.11; individual deposits, \$63,771.54; certificates of deposit, \$44,287.42; total, \$130,973.20. State of Kansas, County of Shawnee, ss. I, Albert Neese, owner of said bank, do solemnly swear that the above statement is true; that said bank has no liabilities, and is not indorser on any note or obligation, other than shown on the above statement, to the best of my knowledge and belief. So help me God, Albert Neese, owner. Subscribed and sworn to before me, this 14th day of June, 1910, Carl Thurber, Notary Public. (Seal.) Commission expires on the 24th day of April, 1911.

Colorado Land

EVERY DAY UNION PACIFIC EXCURSIONS

Round trip from Kansas City, or any river point for \$17.50 to Denver, Colorado Springs, and Pueblo, good until Sept. 30th, with privilege of stopping off at Kit Carson, Colo., to inspect our lands. Write for our land folder.

Kit Carson, COLORADO. KIT CARSON COMPANY, Colorado.

SOUTHWESTERN COLORADO.

160 acres of fruit land, with ample, reliable and well defined private water rights, valued at \$8,000; near railroad and school, 45 acres in alfalfa; all fenced. Red, sandy loam, deep, rich, and very productive, free from alkali. 115 acres under water; no waste land. Owned by non-residents, who cannot give it the necessary attention. No buildings, but very desirable property, surrounded by well improved farms; delightful climate, etc., free from malarial and bronchial troubles. Altitude about 6,500 feet. Price \$65 per acre. Can be sub-divided into small tracts. Terms 1/4 cash, balance on 3 or 5 years' time, at current rate of interest. For particulars address the FRANK ELDREDGE INVESTMENT CO., Durango, Colorado.

ALFALFA LAND — EASTERN COLORADO

Plenty of rain to grow good crops—You can buy now for \$7.50 to \$15 per acre on terms of about 1-3 cash. Only 30 feet to good water. Will be worth \$60 per acre some day. Buy Cheap Land; it will Make You Money. Write for our free list.

N. B. BURGE & CO., 701 JACKSON ST., TOPEKA, KANSAS

PAONIA, COLORADO

Would you buy 240 acres of undeveloped fruit land if you knew it would make you 100 per cent profit in three years? We have such a thing only 1 1/4 miles from town. We want an opportunity to prove it to you. Full details on application. CLINE & HUFTY, No. 284 Second St. Reference—Fruit Exchange State Bank, corner Third and Grand.

HOMESTEAD RELINQUISHMENTS
And cheap deeded lands. Kiowa county, is still cheap, but is bound to develop several times in the next few years. Write for further information.
LINN & CHERMAK, Haswell, Colorado.

EASTERN COLORADO LANDS \$10 an acre and up. Live agents wanted. Write for our descriptive literature, and county map, mailed free.
HAYNES LAND CO., Vona, Colorado.

SAN LUIS VALLEY.
Irrigated land with perpetual water rights in tracts to suit on easy terms. Prices still far below real value. Produce alfalfa, peas, potatoes, wheat, oats and fat stock.
THE TRANS-MISSISSIPPI INV. CO., Inc., La Jara, Colorado.

COLORADO LAND.
Before buying land in the San Luis Valley, write San Luis Land Bureau, Monte Vista, Colo., for report on soil, irrigation, etc. Grand climate, beautiful mountain scenery, wonderful fertility, and land is cheap.

YUMA COUNTY, COLO.
Lands that raise big crops of all staples, \$10 to \$15 per acre. Great opportunities for home seeker and investor. I own a few quarters, which I will sell cheap.
A. L. KISSINGER, U. S. Commissioner, Yuma, Colorado.

WASHINGTON COUNTY, COLORADO.
Corn and wheat lands \$7 to \$30 per acre. Prices advancing rapidly—now is the time to buy. 320 acre homesteads and cheap relinquishments. Write for free list.
THE AKRON LAND CO., Inc., Akron, Colorado.

LANDS THAT RAISE BIG CROPS OF ALL STAPLES, near towns, churches, schools and neighbors, \$10 to \$25. Will locate you on a 320 acre homestead relinquishment. Act quickly. Write for full information.
Empire Land & Cattle Co., Akron, Colorado.

\$7 to \$15 per a. on Liberal Terms. Homestead relinquishments \$100 to \$800 each. Where rainfall is plentiful, and prices are rapidly advancing. Write for full information stating what you want.
Maher & Hanks, Deer Trail, Colorado.

EASTERN COLORADO LANDS at lowest prices and best terms. If you want a good home or investment, you should see me. I have been here for 17 years. Inclose stamp for reply.
THE GENOA LAND COMPANY, Genoa, Colorado.

CHEYENNE COUNTY, COLORADO.
Where land often pays for itself in one crop. For \$8 to \$16 we can sell you choice land, well located, near schools, churches and markets. Write or see
WILD HORSE LAND CO., Wild Horse, Colorado.

LA PLATA COUNTY
Irrigated lands \$25 an acre and upward; in new country, about to be tapped by another railroad—the C. & S. Fruit, vegetables and all staples produce big crops. Price lists and large pamphlet free.
BOYLE REALTY CO., Durango, Colorado.

BEST BIG COLORADO OPPORTUNITY.
Former 4400 ranch now in alfalfa, cantaloupes, water ample. On Santa Fe and Missouri Pacific near Pueblo. Four stations on land. At half real value.
BRANDON LAND & LOAN CO., Brandon, Colorado.

GOOD LAND, Kit Carson County, Colo., \$8.50 to \$25. Why stay east and pay big rent when you can come to Kit Carson county and buy a home for the rent you pay for the eastern farm one year. Land produces wheat, barley, oats, corn, cane, alfalfa, etc. Write for colored map of Colorado, sent free.
G. W. BINOMAN, Stratton, Colorado.

FOR SALE—My real estate, insurance and loan business and frame business block that rents for \$25 per month. Business paid me over \$10,000 last year. Located in a live town in the heart of the great newly developing irrigation district 60 miles north of Denver. Am leaving the state, but will teach new man the business. Price \$2,500; terms, T. L. Greer, Ajit, Colo.

FREE
Illustrated descriptive pamphlet and booklets telling all about Eastern Colorado; choice land at \$10 to \$20 per acre.
KENNEDY LAND CO., Limon, Colorado.

LIST OF LANDS for sale at \$5 per acre, and up, free. 320 acre homesteads located. Relinquishments for sale. R. A. Shook, Akron, Colorado.

CORN, WHEAT AND ALFALFA
Lands in Eastern Colorado at \$8.00 to \$15.00 per acre. Now is the time to buy, and get the big increase in land values bound to come. Write for further information.
S. B. WARREN, Haswell, Colorado.

ARE YOU MAKING MONEY?
95 per cent of the San Luis Valley farmers are getting rich. Why? Because they are producing the finest pork and mutton in the world at lowest possible cost. Our free illustrated folder tells how. Write for one. C. W. FOSTER, Monte Vista, Colo.

KIOWA COUNTY, COLORADO.
Corn, wheat and alfalfa lands \$8 to \$15 Homestead relinquishments \$250 up. Folder and copy of the Homestead laws sent free. A few 160 acre homestead tracts under prospective irrigation yet. THE WESTERN REALTY CO., Eads, Colo.

IMPORTANT MESSAGE TO CATTLEMEN.
250 head Hereford and Shorthorn cattle, cows, 2-year-olds, yearlings and calves with 160 acres deeded land. Improved and lease on three sections. Plenty water, about 8 miles of fence. Plenty good range. Located about 15 miles railroad town. Can be bought at very low price if taken at once.
I. H. SHELTON, Ordway, Colorado.

BEST BARGAIN IN THE WEST.
Fruit and stock farm, well improved, in center of Montezuma Valley, close to county seat, land will be worth several times its present value for orchard purposes, pays 25 per cent annually on a valuation of \$26,000.
VINCENT & WOODS, Cortez, Colorado.

BARGAINS IN IRRIGATED LANDS
In the famous San Luis Valley. Good water rights go with the lands. 320 a., 4 mi. from Alamosa. Good improvements, grain, alfalfa and hay. Two good artesian wells. Fine farm. Price \$50 per a. 320 a. improved. Close to school. Fine soil, grows grain, alfalfa and potatoes. Great bargain at \$25 per a. 160 a. improved. Hay, grain and pasture, near school, \$35 per a. 320 a. partly improved, all fenced, rich soil. Splendid snap at \$25 per a. For further description write
BUTLER & HINES, Alamosa, Colorado.

DO YOU WANT A HOME?
Buy now in Washington county, Colo., where choice land, with best of soil, can be had, where good farms raise from 20 to 45 bu. wheat per acre and oats, barley, corn, speltz, potatoes and alfalfa grow abundantly on upland without irrigation; in a county rapidly settling and being improved by good thrifty farmers. We have many tracts of choice, smooth, fertile farm land, healthful climate and abundance of good water, at prices ranging from \$8 to \$15 per acre. If you are looking for good investments write or see
VANDERHOOF & McDONALD, Otis, Colo.

MUNTING PAYS THE FREIGHT.
Farms, Sheep, and Also Cattle and Horse Ranches.
I own 40,000 acres of choice lands in Washington and Yuma counties, and am offering both improved and law lands at prices far below all others and on terms to suit all purchasers. Monthly payments if desired. 160 and 320 acre relinquishments adjoining lands offered for sale. Best of wheat, oats, cane, corn, potatoes and alfalfa lands. I refund railroad fare and hotel bills to those who purchase from me. All lands are level, smooth and rich farm lands. NONE better. COME NOW and buy homes and get the free ride. Why pay big commission when you can buy direct from the owner? Write for maps, plats, price lists and explanations and proofs to
AUGUST MUNTING, Akron, Colorado.

FREE LAND

AND FREE WATER RIGHTS IN NORTHWESTERN COLORADO

Write to-day for map and booklet telling how to get 160 or 320 acres of government land. Deep, Rich Soil in River Valley. Land and irrigation water absolutely free. Railroad now being built through a million acres of free land. Fine crops of grain and vegetables; good local market. Best grass country in the west. We have no land and no water rights to sell. They are free. W. F. JONES, Gen. Traf. Mgr., D. N. W. & P. Ry. Room 708 Majestic Bldg. Denver, Colo.

LIVE AGENTS wanted to sell Washington County land; big crops are being raised every year. Write for offer. The Clary Land Co., Akron, Colo.

SEND FOR A COPY of our free book, telling about good homes and money making investments. Illinois Realty Co., Monte Vista, Colorado.

STOP! LOOK! LISTEN!
to what we have to say in regard to our business. We have a large list of the best lands in Morgan County. Should you desire a good irrigated farm, good dry land or a homestead, communicate with us or come and give us an opportunity to show you what we have.
B. W. JACKSON REALTY CO., Fort Morgan, Colorado.

COLORADO LANDS

Send for our descriptive map folder of Eastern Colorado, mailed free upon request. We have many bargains in wheat and alfalfa lands, nice and smooth, at \$8.50 to \$20 per acre.
FLAGLER LOAN & INV. CO., Flagler, Kit Carson County, Colorado.

I. L. DARBY THE PIONEER LAND MAN

Government and Deeded Lands and Town Property. 320 acre Homesteads. Snaps in relinquishments. Write for new illustrated folder, mailed free.
GROVER, COLORADO.

FAMOUS Grand River Valley lands pay big interest on capital invested. Prices advancing rapidly; now is the time to buy. Write for large, 60-page, descriptive pamphlet, mailed free upon request.
\$ FOR \$ REALTY CO., Fruita, Colorado.

UNCOMPAGHRE VALLEY LANDS.
Where fruit pays 50 per cent interest on the value of the land, and all staples grow to perfection. We sell these lands at very reasonable prices. Write for full information. JONES-HAWES REALTY CO., Montrose, Colorado.

MONTEZUMA VALLEY—Land of red soil; produces all crops; fruit, hay, wheat, oats, barley, potatoes. Prices \$30 to \$100 per acre and advancing rapidly. Now is the accepted time. Literature free, describing this beautiful valley. Closson & Huff, Cortez, Colorado.

COLORADO FRUIT LANDS
That pay big interest on the capital invested. Reasonable prices and terms. Write for full information, stating what you want.
Hotchkiss, PAUL WILSON, Colorado.

IRRIGATED LANDS
In the Uncompahgre Valley with good water rights, raise good crops, all staples and fruit at reasonable prices. In new country; values are advancing rapidly. Write for full information. HAYS & SMITH, Montrose, Colorado.

NORTH FORK VALLEY.
Fruit lands, stock ranches, sugar beet and hay lands for sale at very reasonable prices. In the best fruit section of Colorado. Write for illustrative descriptive literature, sent free.
THE NORTH FORK REALTY CO., Hotchkiss, Colorado.

LANDS! LANDS!
In the famous San Luis Valley. Land from \$40 to \$125. Crops abundant. Unexcelled water rights. We live here, are old ranchers here, and own land here. Write for handsome illustrated booklet mailed free. DWIGHT G. GOVE, Monte Vista, Colo.

COLORADO FRUIT LANDS, famous North Fork Valley. Good fruit land with gilt edge water right on Fruitland Mesa. \$50 to \$100 acre, or a nice small tract all set to standard fruit, apples or peaches or both, perfect water rights, fine stand \$225 acre, bearing orchards \$500 to \$1,000 acre. Illustrated booklet mailed free upon request. E. S. GOULD & F. D. WILLOUGHBY, Hotchkiss, Colorado.

640 ACRES fenced and cross-fenced, 12 miles of Denver, three miles of Parker, Colo., well grassed, has living water sufficient to water 200 head of stock every day in the year, \$12 per acre, half cash, balance in one and two years at 6 per cent. Several other bargains just as good. Write
A. J. SIMONSON, Denver, 214 Cooper Bldg., Colorado.

KIT CARSON COUNTY, COLORADO.
Corn, wheat and alfalfa lands, at \$10 to \$25 per acre, according to location and improvements. Prices are rapidly advancing, and the time to buy is now. Write for our free illustrated booklet, stating what you want. A live agent wanted in your locality.
A. W. WINEGAR, Burlington, Colorado.

EASTERN COLORADO—The home of wheat, barley, millet, cane, broom corn, speltz and all staples. Lands are now very cheap, from \$9 to \$11 per acre for raw land and to about \$20 an acre for improved farms, but are rapidly advancing in price. Write for free printed matter, stating what you want.
McCRACKEN LAND CO., Burlington, Colorado.

MONTEZUMA VALLEY LANDS.
In southwestern Colorado, a new country that is attracting much attention from the homeseeker and investor. Lands with good water rights, \$30 to \$100 per acre. These prices will undoubtedly double soon, and now is the time to buy. Write for state map, and handsome booklet, full of valuable information. BOZMAN REALTY CO., Cortez, Colorado.

DO YOU WANT TO BUY Eastern Colorado lands? Write for our free folder of 28 large illustrated pages. Cheyenne County Land Co., Cheyenne Wells, Colorado.

FREE HOMESTEADS in Colorado. Big Crops. No Irrigation. I will send you a sample of the soil. Rainfall chart, maps, law and valuable information if stamp is enclosed. Harry G. Matteson, Otis, Colo.

320 Acre Homesteads

There are only a few left, so you must act quickly. Also cheap deeded lands, including both stock ranches and farm lands and homestead relinquishments for \$150 and upwards. Write for descriptive circular, mailed free upon request.
G. W. FRANK, Arlington, Colorado.

ORDWAY, COLORADO

Is one of the greatest irrigated districts in the West. Sugar beets, alfalfa, cantaloupes, and all staples produce bountiful crops. I sell these lands at reasonable prices, on good terms. Write for further information.
FRANCIS JAMES, Ordway, Colorado.

EASTERN COLORADO LANDS

\$12 to \$25 per acre; about 1-3 cash, balance to suit purchaser. Also homestead relinquishments for sale cheap.
A. TERWILLIGER, Prop., Byers Hotel, Byers, Colorado.

SAN LUIS VALLEY

Lands where big crops of potatoes, alfalfa, peas, etc., grow to perfection. Reasonable prices; good terms. Write for illustrated literature, mailed free.
W. P. FISHER COMPANY, La Jara, Colorado.

EDUCATE YOURSELF

As to irrigated lands and prices of water, Montezuma Valley LANDS SELL QUICKLY to the MAN WHO KNOWS. WRITE to HARRY V. FLYE, the Guide, for information concerning the cheapest irrigated system in the Middle West.
DOLORES, the GATEWAY, Dolores, Colo.

GRAND RIVER VALLEY

The famous orchard district of the western slope of Colorado, orchard tracts in any size to suit purchaser at various prices. Bearing orchards often pay \$500.00 an acre net profit per annum. Write for full information.
E. A. LOOMIS, Fruita, Colorado.

EASTERN COLORADO

Farm lands near the new and rapidly growing town of Brandon for \$10 to \$15 per acre. Great opportunities for homeseeker and investor. Write for full information.
C. D. BLANCHARD, Brandon, Colo.

GRAND RIVER VALLEY

The famous fruit district of the United States. Fruit lands will pay an average of 20 per cent on the capital invested. Write for free descriptive booklet.
R. H. BANCROFT & CO., Fallside, Colo.

DELTA COUNTY, COLO.

Fruit and all staples produce big crops. Dry lands, \$5 an acre and up. Irrigated lands \$50 an acre and up. We have large list of lands. Write us.
THE FITCHER-NEWVILLE REALTY CO., Delta, Colorado.

HOTCHKISS, COLO.

In the best fruit section of the Western Slope. Good fruit land, with water right, can still be bought for \$100 to \$150 per acre. Values will undoubtedly double and treble soon. Send your name for large illustrated pamphlet mailed free.
O. F. DICKSON & CO., Hotchkiss, Colorado.

PAONIA, COLORADO

In the best fruit section of the Western Slope. Fruit land pays 20 per cent per annum on the capital invested. Prices still reasonable, but advancing rapidly. Write for free illustrated folder, containing much interesting information.
C. C. HAWKINS, Paonia, Colorado.

NORTHERN COLORADO.

Where wheat is wheat and yields 20 to 60 bushels per acre on either irrigated or dry land. Where alfalfa yields \$25 per acre with only the labor of "making" it. Where farming is profitable every year and where life is real living. Send for free price lists and descriptive literature.
G. A. HILL, Berthoud, Colorado.

THE STRAY HUNT

Nemaha County, E. S. Dandall, Co. Clerk. HORSE. One bay horse, scar on neck, value \$55; taken up by Cooper Bros., May 24, 1910.

MARE 1 sorrel mare, right hind foot and leg white, brand H on left hip, small white in face; value \$70; taken up by Cooper Bros., Gillman twp., May 24, 1910.

Washington Co.—J. A. Maxwell, Co. Clerk. HOGS—Taken up on the premises of Henderson Long in Mill Creek township about February 15, 1910, 2 black barrows unmarked, averaging about 100 pounds in weight and valued at \$17.

To the Editor:—We are having plenty of rain in this locality just now. Have good prospects for all kinds of fruit except plums. Wheat uninjured, oats looking fine, corn about all in but not coming well. Stock looking well for this time of year. Very few hogs in the country and a very light spring pig crop.—J. C. Lariner, Derby, Kan.

TEXAS LAND

LOWER PECOS VALLEY IRRIGATED LANDS

Pay 50 to 200 Per Cent Net Annual Income in Alfalfa and Fruits.

We are the owners' Exclusive Selling Agents for Arno or Zimmerman lands sold in tracts from 10 acres and upwards including perpetual paid up water rights and proportionate ownership of the irrigated system. These lands will pay 100 per cent annual income.

We also have a number of section tracts of artesian land in the valley, back of the canal systems which we can sell at from \$6.00 to \$8.00 per acre on easy terms.

Ask for Arno or Zimmerman descriptive folders. Address

THE HEATH COMPANY, 109 W. 7th St., Topeka, Kan.

GOOD RANCH.

3,368 acre ranch, improved, \$5.00 an acre. Robertson Co., 7 miles county seat. Adjoining land couldn't be had for twice our price. Would sell part or all. All fine grass and much first class farm land. Detailed description and plat free.

C. A. BABCOCK, Harper, Kansas.

Dalhart, Texas

is where we are located and we have some land bargains for the buyer. Write for our free, handsomely illustrated book or come to Dalhart and let us show you a country without a fault.

J. N. JOHNSON LAND COMPANY, Dalhart, Texas.

Oklahoma Land

MAJOR COUNTY corn, wheat and alfalfa lands. Lowest prices. Best terms. Information free. **J. Nile Godfrey, Fairview, Okla.**

CADDO CO. FARMS.

Best in Oklahoma for homes or investment. Your address on postal card will bring descriptive list and literature.

BAIRDWIN & GIBBS CO., Anadarko, Oklahoma.

CORN, OATS, WHEAT

and alfalfa and all staple crops grow to perfection here in the garden of Oklahoma. Prices reasonable. Write for list and descriptive literature.

C. E. POCHEL, Newkirk, Okla.

EASTERN OKLAHOMA.

Improved farm, 160 acres, good, new house, half section of unimproved land. Very fine. Several other good bargains. Write me if you want to know about Eastern Oklahoma. **T. C. BOWLING, Owner, Fryer Creek, Okla.**

WASHITA VALLEY LANDS.

From \$10 to \$60 per acre offer great opportunities for investment. They are well located near railroads, towns, churches and schools. Write for further information.

JOSEPH F. LOCKE LAND & LOAN CO., Wynnewood, Oklahoma.

REAL ESTATE BROKERS.

Mangum, Okla. Lands that produce big crops of cotton, alfalfa, corn wheat and all other staples at very reasonable prices. Write for free list of bargains.

McMILLAN & LANGFORD, Mangum, Oklahoma.

"Hough Sells The Earth"

In Caddo county, fertile, rich, cheap. Send 10 cents in stamps for handsome colored county map of Oklahoma, circulars and list. Letters answered in German or English.

W. R. HOUGH, Apache, Okla.

CADDO COUNTY, OKLAHOMA. corn, wheat, cotton and alfalfa lands \$20.00 to \$75.00 per acre according to improvements and distance from town. Lands are advancing rapidly. Now is the time to buy. Write for full information.

J. ELZIA JOHNSON, Hinton, Okla.

IMPROVED FARMS

180 acres, 140 in cultivation, good 9-room house, barn 45x65, tool shed, and granary, 40x40, orchard, telephone, R. F. D., near school, four miles county seat. Price \$9,000. Write

J. T. RAGAN, Vinita, Okla.

160 ACRES 160

Fine land, 100 acres in cultivation, 6 1/2 miles from railroad. Price \$4,000. Terms on part.

THE FIRST LOAN & MORTGAGE CO., Watonga, Oklahoma.

A BARGAIN.

320 a. 7 miles of county seat, 3 1/4 miles of R. town, 1 1/2 miles to school, 160 acres deeded, 160 a. school land, 4 miles of 4-wire fence, 12 a. alfalfa, fine large orchard, 7-room house, summer kitchen of 2 rooms, 2 barns 40x66 and 40x44, large granary, 2 wells and mills, 2 hen houses, 8x28, all the crop as follows, Kafir corn, good soil, 45 a. pasture. Price for 30 days, \$11,000.

BATTEN REALTY CO., Medford, Oklahoma.

A FINE HOME FARM.

320 acres, 1 1/2 miles south Wagoner, New 7-room house, nice outhouses, good barn, granary, wagon shed, windmill, concrete tanks. Nice bearing orchard, 225 acres cultivation. Can most all be plowed. All good land, good set tenant improvements, 4 good wells, one of the best improved farms in the county. Price \$45,000 per acre. Lots of others. Write for information.

W. H. LAWRENCE, Wagoner, The Land Man, Oklahoma.

FOR QUICK TRADE—80 a. farm in Pike Co., Ark., 40 a. in cultivation, small house, large shed, good well of water, running stream of water, some good timber, all under fence. Price \$2,000. Want good stock, mares, cows and some good hogs. Will give good prices for stock if the right kind. Land clear. Reasons for trading. I have 2 farms and want to trade one for stock to place on the other one. Box 315, Claremore, Oklahoma.

EASTERN OKLAHOMA.

200 acres, 7 miles from Muskogee, 3 miles of railroad town, all good valley land, living creek water, 20 acres cultivated, balance meadow, all fenced. In white settlement, on main road, close to church and school. Price \$30 per acre.

Many other farms, improved and unimproved at \$25 to \$35 per acre.

R. B. BEARD & CO., Muskogee, Oklahoma.

FREE INFORMATION about Oklahoma. Homer H. Wilson. Here since 1893. Enid, Okla.

A 160 ACRE FARM

near a town like Thomas, Okla., is a sure thing. Write for particulars. Don't fail to see our land before buying elsewhere.

GRANT INVESTMENT COMPANY, Thomas, Oklahoma.

Oklahoma Land

Where corn, wheat, alfalfa, and cotton are making the farmers rich. We specialize on Oklahoma, Cleveland, Logan and Washita counties. Fine alfalfa lands \$30 and upwards. Write for list and printed matter, mailed free. We also lead all in Oklahoma City property.

FARM & HOME INV. CO., Culbertson Bldg., Oklahoma City, Okla.

MISSOURI LAND

IMPROVED corn, clover and blue grass farms, 40 miles south Kansas City, \$50 to \$75 per acre.

Jot M. Wilson & Son, Harrisonville, Mo.

CORN, clover and bluegrass farms in the best section of Missouri, very reasonable prices. Write for description.

W. A. HORN, Harrisonville, Missouri.

MISSOURI FARM LANDS—No better grain and stock land anywhere: good values; fine schools, fine climate list and prices free. **Fulton Real Estate Agency, Fulton, Mo.**

FARM BARGAIN.

160 acres 1/4 mi. of town with two railroads, new improvements, level, smooth deep black loam soil. Price \$90 per acre.

DEAUCHAMP & BAKER, Owners, Brookfield, Missouri.

SOUTHEAST MISSOURI LANDS.

We have 10,000 acres, improved and unimproved lands, \$2 per acre and up. Easy terms. Write

DE SOTO LAND COMPANY, De Soto, Missouri.

WHEN CORN IS LAID BY.

Come to Callaway County, Mo. great corn, wheat, oats, bluegrass, timothy and clover section; making it greatest combined stock and grain region of corn belt. Write for free catalog "A."

W. ED. JAMESON, Fulton, Missouri.

MISSOURI FARMS.

Well improved farms in best farming section of Missouri, \$50 up. Ranches, \$10 to \$25. Natural home of corn, clover and bluegrass. Abundance of pure spring water. Descriptive price list free.

J. H. FREDERICK, Cole Camp, Benton Co., Missouri.

TO LATE TO CLASSIFY

POLAND CHINAS

POLAND CHINAS

Dietrich & Spaulding, Ottawa, Kan.

Have for sale—5 good last fall Poland China boars 50 spring pigs of the leading strains of both big and medium types. We can sure please you. One yearling gilt, safe in pig to Band Master; two Sportsman September gilts to be bred to Master Stroke 159999. They are beauties. Write at once if you are interested. HOME PHONE 1033; RESIDENCE, 531 CHERRY ST.

BROWN COUNTY POLAND CHINAS:

Oldest herd in Kansas headed by Major B. by Major Bob 50311. Sows by Big Hadley, Johnson's Chief, etc. 3 extra good fall boars for quick sale, reasonable prices.

ELI ZIMMERMAN, Hiawatha, Kansas

ALBRIGHT'S POLAND CHINAS.

The utility type, headed by N. E.'s Perfection by S. P.'s Perfection sows in herd carry the blood of noted stus and have been selected carefully 10 choice pigs, both sexes, ready to ship.

A. L. ALBRIGHT, Waterville, Kansas

EUREKA Herd of pure bred Poland Chinas and Duroc Jerseys, 115 head to select from, with quality, size and good litters. Order early and get the best. Ready to ship after Aug. 1st, at farmers' prices. **W. H. Sales, Simpson, Kan.**

FOR SALE—Central Missouri farms; send for list, 200 farms in Callaway Co., Mo., with full description and price for each; in Missouri's best grain and blue grass county. **Koontz & Palmer, Fulton, Mo.**

DID YOU GO TOO FAR?

Do you want to have a clover, bluegrass and timothy farm again? If so, write us. We sell well improved Johnson county farms for \$40 up. Write for our list, mailed free and postpaid.

LEETON LAND CO., Leeton, Missouri.

880 ACRES FINE TIMBER LAND. Abundant living spring makes ideal ranch; if cleared would be good agricultural, farms adjoining all sides can not be bought for \$50 per acre; near county seat; price \$75 per acre; no incumbrance; will take some trade. **J. H. McQuarry Realty Co., 120 Commerce Bldg., Kansas City, Mo.**

THREE HIGH CLASS improved Northwest Missouri farms for sale, corn, clover and blue grass land. Your choice \$75 per acre. Write for particulars. **Bazel J. Meek, Owner, P. O. Box 307, Chillicothe, Missouri.**

IF YOU CONTEMPLATE BUYING LAND in North Missouri, remember Linn county is among the most fertile and you should consult us to get just what you are looking for.

SMITHER & COOLEY, Brookfield, Missouri.

MISSOURI FARMS.

For sale or exchange, in Morgan county, where corn, clover and bluegrass grow to perfection. Prices from \$10 to \$65 per acre, on liberal terms. Write for county map and list, both free.

CREWSON & HARRISON, Versailles, Mo.

NEBRASKA LAND

LANDS AND RANCHES FOR SALE

120 acres, one mile from town, all bottom land, no overflow, alfalfa land. Good improvements. Send for photo.

M. W. M. SWAN, Haigler, Nebraska.

FREE LIST

of Nebraska land in Chase, Dundy and Perkins counties, ranging in price from \$6.00 to \$35.00 per acre. No crop failures since 1895. Your name and address on a postal card will do it.

IMPERIAL LAND CO., Imperial, Neb.

Land Bargains

NEBRASKA, Colorado and Kansas lands, well located in Dundy County, Neb., Yuma County, Colo., and Cheyenne County, Kan. \$10.00 to \$25.00 per acre for good, smooth land. Some 640 acre relinquishments yet.

HAIGLER R. E. & INV. CO., Haigler, Nebraska.

NEBRASKA

160 acres, only 4 1/2 miles from Benkelman, \$15.00 an acre, if sold at once. Has about 150 acres good corn land, and about 80 in cultivation. Telephone and rural delivery lines are right there; school 1 mile, one-half down, balance at 8 per cent. Other farms.

D. L. OUGH, Benkelman, Nebraska.

IF YOU WANT a farm, or a stock ranch, and you want to see the finest fields of grain to be found in the West today, get out here now. Best values for the money that you can find, and we can prove it to you. Write us. **The Chase County Abstract Company, Imperial, Nebraska.**

IRRIGATED HOMESTEADS.

In the famous North Platte Valley, where Uncle Sam furnishes the water on ten years' time without interest. Crops yield \$25 to \$100 per acre. Homesteads at from \$700 to \$3,500, according to improvements. Deeded lands \$75 to \$100 per acre. Free rural mail delivery, telephone and all modern farm conveniences. These lands in splendid settlement of fine homes near town. For particulars write or see

CARPENTER, PLUMMER & MURPHY, Morrill, Nebraska.

FIELD NOTES

FIELD MEN.

O. W. Devine, Topeka, Kan.
Jesse R. Johnson, Clay Center, Kan.
R. G. Sollenbarger, Woodston, Kan.

PURE BRED STOCK SALES.

Jersey Cattle.
June 30—Kinloch Farm, Kirksville, Mo.

Hereford Cattle.
Nov. 10—T. I. Woodall, Fall River, Kan.

Berkshires.
Aug. 19, 1910—Chas. S. Sutton, Lawrence, Kan.

Horses.
Oct. 26—W. S. Corra, Whitehall, Ill.

Shorthorn Cattle.
Nov. 15—J. E. Joines, Clyde, Kan.
Feb. 22—Phillip Albrecht, Smith Center, Kan.

Percherons, Belgians, and Shires.
Nov. 1, 2, 3, 4, 1910, Breeders' Sale Co., Bloomington, Ill.
Jan. 10, 11, 12, 13, 1911—Breeders' Sale Co., Bloomington, Ill.
Feb. 25, and March 1, 2, 3, 1911—Breeders' Sale Co., Bloomington, Ill.

Durocs.
Oct. 19—G. Van Patten, Sutton, Neb.
Oct. 25—Leon Carter, Asherville, Kan.
Oct. 28—Thompson Bros., Garrison, Kan.
Oct. 26—P. H. Pagett, Beloit, Kan.
Oct. 27—W. E. Monasmith, Formosa, Kan.
Oct. 29—Rinehart & Slaice, Smith Center, Kan.
Nov. 15—J. E. Joines, Clyde, Kan.
Nov. 19—Phillip Albrecht, Smith Center, Kan.
Jan. 30—A. T. Cross, Guide Rock, Neb.
Jan. 31—Ward Bros., Republic, Kan.
Feb. 1—W. E. Monasmith, Formosa, Kan.
Feb. 2—Thompson Bros., Garrison, Kan.
Feb. 2—G. P. Phillippi, Esbon, Kan.
Feb. 3—Rinehart & Slaice, Smith Center, Kan.
Feb. 4—W. C. Whitney, Agra, Kan.
Feb. 13—T. E. Gothe, Leonardville, Kan.
Feb. 14—Chapin & Nordstrom, Green, Kan. sale at Clay Center, Kan.
Feb. 15—Leon Carter, Asherville, Kan.
Feb. 16—W. T. Fitch, Minneapolis, Kan.
Feb. 17—L. E. Bovle, Lindsay, Kan.
Feb. 22—Phillip Albrecht, Smith Center, Kan.

Poland Chinas.

Aug. 10—G. A. King, Cullison, Kan.
Aug. 11—E. H. Davidson, St. John, Kan.
Sept. 20—J. D. Spangler, Sharon, Kan.
Oct. 5—Homer Gruver, Spring Hill, Kan.
Oct. 8—Bert C. Wise, Falls City, Neb.
Oct. 12—W. B. Stafford, Bronson, Kan.
Oct. 13—Bert G. Wise, Reserve, Kan.
Oct. 13—Bert G. Wise, Hiawatha, Kan.
Oct. 14—T. J. Dawe, Troy, Kan.
Oct. 15—J. B. Whipple, Fall City, Neb.
Oct. 18—Herman Gronniner & Sons, Bendena, Kan.
Oct. 19—A. B. Garrison, Summerfield, Kan.
Oct. 20—Hubert J. Griffiths, Clay Center, Kan.
Oct. 21—J. M. Ross, Valley Falls, Kan., and W. E. Long, Ozawie, Kan., sale at Valley Falls.
Oct. 22—H. C. Graner, Lancaster, Kan.
Oct. 22—Eli Zimmerman, Hiawatha, Kan.
Oct. 25—W. C. Singer, Hiawatha, Kan.
Oct. 26—W. R. Webb, Bendena, Kan.
Oct. 26—G. M. Hull, Garnett, Kan.
Oct. 27—Walter Hildwein, Fairview, Kan.
Oct. 28—J. H. Harter, Westmoreland, Kan.
Oct. 28—I. R. Berkey, Louisburk, Kan.
Nov. 1—J. H. Hamilton & Sen, Guide Rock, Neb.
Nov. 1—H. B. Walter, Effingham, Kan.
Nov. 1—H. F. Pelphrey, Humboldt, Kan.
Nov. 2—Albert Smith & Sons, Superior, Neb.
Nov. 2—J. W. Felphrey, Chanute, Kan.
Nov. 2—Albert Smith & Sons, Superior, Neb.
Nov. 2—R. J. Peckham, Pawnee City, Neb.
Nov. 3—The Mortons, Tampa, Kan.
Nov. 3—George W. Smith, Burchard, Neb.
Nov. 3—D. W. Evans, Fairview, Kan.
Nov. 4—Bert G. Wise, Reserve, Kan.
Nov. 4—White Bros., Buffalo, Kan.
Nov. 9—T. J. Meisner, Sabatha, Kan.
Nov. 10—W. R. Stump, Blue Rapids, Kan.
Nov. 11—S. B. Amcoats, Clay Center, Kan.
Nov. 16—W. A. Prewett, Asherville, Kan.
Nov. 19—G. W. Roberts, Larned, Kan.
Jan. 18—H. F. Pelphrey, Humboldt, Kan.
Jan. 19—J. W. Felphrey, Chanute, Kan.
Jan. 20—Roy Johnston, South Mound, Kan.
Jan. 26—W. R. Stump, Blue Rapids, Kan.
Feb. 7—J. M. Ross and W. E. Long, Valley Falls, Kan.
Feb. 8—H. B. Walter, Effingham, Kan.
Feb. 8—T. J. Charles, Republic, Kan.
Feb. 9—Albert Smith & Sons, Superior, Neb.
Feb. 9—Albert Smith & Sons, Superior, Neb.
Feb. 10—J. H. Hamilton & Son, Guide Rock, Neb.
Feb. 16—J. H. Harter, Westmoreland, Kan.
Mar. 4—C. H. Filcher, Glasco, Kan.

H. B. Walter, Poland China breeder of Effingham, Kan., has recently purchased from D. C. Lonagan, of Florence, Neb., the outstanding good sow, Guy's Best, paying for her \$225. Guy's Best was first in class at Sioux City and second in class at Lincoln last season, and is the dam of the young herd that Mr. Lonagan will show this year. She has a litter at foot by Big Victor.

Golden Rod Durocs.

While in Nebraska last week the herd of G. Van Patten was visited, and a fine herd was seen. Headed by Medoc, a noted son of Kant Be Beat, and Golden Rod King, a yearling boar by Echo Top King and his dam by Model Chief. This young fellow will be seen at Nebraska State Fair this fall and very likely the Kansas State Fair. The spring pigs are by above boars and Chief Sensation, Crimson Wonder Jr. and Red Wonder. Many noted hogs have gone out from this herd and the prospects are good for more this year.

Briggs and Sons' Durocs and Powder.

Our visit in Nebraska would not have been complete had we not visited this herd for which old Improver 2d did so much, and from which many noted prize winners and breeders have come. The herd is now headed by the two good boars, Lincoln Wonder by Ohio Chief and Cherry Boy by Improver 2d. These boars are showing some fine pigs out of highly bred sows. Messrs. Briggs are also making a worm powder that does the business.

Big Hadley Boars.
Chas. Z. Baker, of Butler, Mo., is offering a few choice big Hadley boars at very low prices for this class of stock. Write your wants and mention Kansas Farmer.

LIVE STOCK MAN WANTED

Wanted, an assistant, man to care for thoroughbred cattle, man of experience, married man without children preferred. Not less than 35 years of age. Apply to EDGAR McCREADY, Belvidere, Kiowa Co., Kansas

AUCTIONEERS

G. E. BEAN, BARNETT, KANSAS. Auctioneer



Live Stock, especially Horses, Cattle and Big Type Poland China and Chester White Swine. I am also breeder of the big Type Poland Chinas. Write me before claiming a date.

J. H. MOORMAN

Live Stock and General Farm Sale Auctioneer. Satisfaction guaranteed. Long distance phone connection. SOLOMON, KANSAS.

JAMES T. McCULLOCH, Clay Center, Kan., Pure bred sales a specialty. Better equipped than ever before to give patrons good service. Reasonable charges for first class service.

L. E. FIFE LIVE STOCK AUCTIONEER, Newton, Kansas. Breeder of Percherons, Shorthorns and Duroc Jersey hogs; posted in pedigrees; terms reasonable. Write or wire for date.

LAFE BURGER

LIVE STOCK AUCTIONEER. Write or wire me for date. WELLINGTON, KAN.

JOHN D. SNYDER

Auctioneer, Winfield, Kansas. I sell for many of the most successful breeders.

THOMAS DARCEY

Live Stock and Real Estate Auctioneer. Fifteen years' experience. Breeder of Poland China hogs. Well posted in pedigrees. dealer in real estate. Terms reasonable. Wire or write for dates. Long distance phone 2651. OFFERLE, KAN.

LEARN AUCTIONEERING AND BE INDEPENDENT.

Summer term Jones Nat'l School opens July 25 (Five weeks) no age limit. Catalog will interest you. Address CAREY W. JONES, Pres., 2856 Washington Blvd., Chicago, Ill.

W. C. CURPHEY

LIVE STOCK AUCTIONEER. Write, phone or wire me for dates. Abilene, Kansas.

COL. ESSIE CRAVEN

LIVE STOCK AUCTIONEER. Twenty Years Selling All Breeds. NORTH BRANCH, KAN.

POLLED DURHAM CATTLE

SELVEDERE X2712-195058 Son of the \$1,500 Grand Victor X1835 150364 heads my herd of Double Standard Polled Durhams. A few extra good, blocky, thick-fleshed young bulls for sale. Inspection invited. Farm address to w. D. C. VAN NICE, Richland, Kan.

HOLSTEIN CATTLE

SUNFLOWER HERD HOLSTEIN-FRIESIANS. offers eight sons of King Walker 40358, whose dam and granddam have A. R. O. record of over 30 lbs. butter in 7 days each. Dams of this lot of bulls have A. R. O. records as follows—27.59 lbs. at 4 years; 26.12 lbs. at 4 years; 25.19 lbs. at 4 years; 23.56 lbs. at 3 years; 21.35 lbs. at 3 years; 18.98 lbs. at 3 years; 18.28 lbs. at 4 years; 17.27 lbs. at 4 years, and correspondingly high milk and butter records for 30 days. They range from 15 months to 20 months in age. Every one an extra good individual and in fine condition. Tuberculin tested. They are by far the choicest lot of bulls ever offered west of the Mississippi river. Don't buy the cheap kind if you would expect the best results. Write for description and prices. F. J. SEARLE, Prod., Oskaloosa, Kansas

ALBA DAIRY 125 HEAD REGISTERED HOLSTEIN-FRIESIANS

LARGEST HERD OF THIS BREED IN IOWA. Barns Sanitary—Herd Tuberculin Tested Twice Yearly. At the head of herd King Segis Hengerveld Vale who is son of the famous King Segis (sire of 3 record-breaking daughters), grandson of Hengerveld De Kol (sire of 100 A. R. O. daughters, 4 above 30 lbs.), great grandson of Sadie Vale Concordia the first 30-lb. cow. A. R. O. COWS FOR SALE. Young, sound, free from disease. Large official milk and butter records; rich breeding; splendid individuality. BULL CALVES FOR SALE from 1 to 6 months old. SHENANDOAH, J. C. GUTHRIE, IOWA

ANGUS CATTLE

80 Angus Bulls

OF SERVICEABLE AGE. Herd Headers and Range Bulls. Many of them by Champion Itos. SUTTON FARMS, Lawrence, Kan. 500 HEAD IN HERD.

SHORTHORN CATTLE

SCOTCH SHORTHORNS

A few choice heifers for sale, nicely bred and good individuals, priced reasonable. Write or come and see my herd. C. H. WHITE, Burlington, Kansas. TENNEHOLM SHORTHORNS. Have on hand a few young red bulls ready for service that are out of splendid milking dams and have good beef form. No better breeding could be wished. Can spare a few females. Prices moderate. E. S. MYERS, Chanute, Kansas.

FOR SALE.

Five extra good Scotch and Scotch topped bulls, 10 months old. Roans and reds, sired by Victor Archer and Forest Knight by Gallant Knight. Priced right. STEWART & DOWNS, Hutchinson, Kansas.

Center Grove Stock Farm

Scotch Shorthorn cattle and 20 bred sows and a few good spring boars of large type Poland China hogs. Write me what you want. No trouble to answer letters. Bell phone. J. W. PELPHREY & SON, Route 6, Chanute, Kansas.

SCOTCH HERD BULL FOR SALE. The Cruickshank Clipper bull, Scottish Archer 283319, sired by Victor Archer 22310 and out of Imp. Noamis Ruth 2nd. An extra good individual and sire but cannot be used in herd longer to advantage, and will be priced reasonable. S. B. AMCOATS, Clay Center, Kansas

Humboldt National Stock Farm.

Shorthorn cattle, large type Poland China hogs, 10 spring boars, priced right. Write me your wants. I meet parties at trains. We can do business. Come and see me. H. F. PELPHREY & SON, Humboldt, Kansas

JERSEY CATTLE

LINSCOTT JERSEYS

offers a few choice cows in milk and some bred heifers. Milk and butter records accurately kept. R. J. LINSCOTT, Holton, Kansas

I have ready for service a few grandsons of Merry Maiden's Third Son, Financial Count, Eurybia's Son and Fontains' Eminent. Prices and extended pedigrees upon application. These bulls will make excellent dairy sires and are fit to head any herd registered in A. J. C. C. W. N. BANKS, Independence, Kansas

RED POLLED CATTLE

CHOICE RED POLLED CATTLE. Herd the oldest in Marshall county. The best in breeding and individuality. Stock for sale at all times. AULD BROS., Frankfort, Kan.

HEREFORD CATTLE

YOUNG HEREFORD BULLS. A choice lot ranging in age from 12 to 20 months, sired by Mystic Baron; all good ones, in fine shape. Among them are some choice herd headers. Prices right. Visitors welcome. Write your wants. S. W. TILLEY, Irving, Kansas.

DUROC JERSEYS

DUROC HERD BOAR FOR SALE. Skadden's Wonder 74645, the best living son of Nebraska Wonder. An excellent breeder and individual. Out of litter of 13. Just in his prime. Will price to sell. A. B. SKADDEN, Frankfort, Kansas

DUROC JERSEYS

QUICK SALE

W. C. WHITNEY, AGRA, KANSAS. Fall boars of best of breeding and quality at bargain prices for quick sale; also a few bred sows for June farrow of the best of breeding and bred to good boars. Write at once. 20 Duroc Jersey Gilts. Large Spring yearlings bred for Summer litters. These are large with lots of quality. The best of breeding, priced reasonable. Write today, they are bargains. MARSHALL BROS., Burden (Cowley County), Kansas

CROW'S DUROC JERSEYS. Herd headed by Climax Wonder, he by Missouri Wonder, 100 head to select from. Prices reasonable. The electric car runs within three blocks of my farm. Come and see my herd at any time. W. R. CROW, Hutchinson, Kansas

I HAVE A GOOD BUNCH of spring pigs of both sexes; up-to-date breeding with plenty of quality. Write me your wants and I will treat you right. E. M. MYER, Burr Oak, Kansas

BRED SOWS, AUGUST FARROW. Duroc sows and gilts sired by Bell's Chief 4th and bred to richly bred boars. Will sell and ship when safe. FRANK VRTISKA, Pawnee City, Nebraska

ONE CHOICK fall boar, three choice fall gilts. Spring pigs, both sexes, from Hanley & Chief's Col. boars. Write for prices. Paul B. Johnson, Leavenworth, Kansas.

POLAND CHINAS

BRED GILTS

Sired by First Choice, he by Grand Chief. Gilts bred to Little Bear, a grandson of On and On. Those offered for sale are the tops of a large bunch. The gilts and the price will please you. Write right now to Young & Kimmerling, Glasco, Kansas

HIGHVIEW BREEDING FARM

Devoted to the Raising of BIG BONED SPOTTED POLANDS. The Farmers' Kind. The Prolific Kind. I am now booking orders for spring pigs to be shipped when weaned. Pairs or trios; no kip. H. L. FAULKNER, Box K, Jamesport, Missouri

SUNSHINE HERD. Poland Chinas; bred gilts and yearling boars. Prices reasonable, quality considered. Satisfaction guaranteed. A. L. ALBRIGHT, Pomona, Kansas

200 LARGE TYPE POLAND CHINAS

Herd headed by Big Hadley, Long John 2d and John Ex. Young stock for sale at all times. A few choice Hadley boars. CHARLES Z. BAKER, Butler, Missouri

HARTER'S BIG KIND POLAND CHINAS. Headed by Mogul's Monarch 45858 and Capt. Hutch 89068. Over 100 choice pigs to select from. Visitors made welcome. Also Barred Rocks. J. H. HARTER, Westmoreland, Kansas

ELMDALE POLAND HINAS for sale at reasonable prices. Four choice boars of August farrow. Spring pigs for \$12.50 each. Our aim—quality, size and good breeding. C. S. MOYER, Nortonville, Kansas

POLAND CHINAS WITH SIZE. Headed by Pawnee Look. I have bred pure bred Poland for 20 years and have learned many valuable lessons, and in the future shall breed nothing but the big smooth kind. More hog and less hot air. F. F. OERLY, Oregon, Missouri

WALTER'S BIG SMOOTH POLAND CHINAS. Expansive, one of the best living sons of Expansion, heads herd. A few choice fall gilts bred to Expansive for fall litters for sale. H. B. WALTER, Effingham, Kansas

MEISNER'S BIG POLAND CHINAS. Headed by Metal Choice, sows are daughters of such sires as Nebraska Jumbo, Pawnee Chief, Big Hadley, etc. Fifty fine spring pigs to date and more sows to farrow. Inspection invited. T. J. MEISNER, Sabetha, Kansas

POLAND CHINAS FOR SALE. 10 January boars, \$15 each. 15 January gilts, \$15 each. 17 yearling gilts bred for August and September farrow, \$30 each. Good breeding and individuality. F. D. YOUNG, Winchester, Kansas

STRYKER BROS.' HERD POLAND CHINAS. The greatest show and breeding herd in the West. Write your wants and they will please you. Hogs any age at reasonable prices. Buy the best and make the most. They breed the kind that win; the kind you want. Address STRYKER BROS., Fredonia, Kansas

BIG STRONG SEPT. BOARS. Sired by Guy's Monarch, the boar with frame for 1,000 lbs., and a 10 1/2-inch bone. Out of dam by the noted boar First Quality. Low prices for quick sale; must make room for spring pigs. H. C. GRANER, Lancaster, Kansas

DUROC JERSEYS

Fall boars of best of breeding and quality at bargain prices for quick sale; also a few bred sows for June farrow of the best of breeding and bred to good boars. Write at once. AGRA, KANSAS

DUROC SOWS and GILTS

30 fall gilts by G. C's Kansas Col. and 15 yearling and matured sows, all by noted boars. Will sell and hold until safe for fall litter. Also 10 fall boars, tops of our fall crop. CHAPIN & NORDSTROM, Green, Clay County, Kansas

"DUROCS GROWN IN THE OZARKS."

Ohio Chief and Col. Blood. Litters by Muncie Chief, Model Prince, King of Models, Inventor, The King I Am Advance; several by Col. Carter, my leading herd boar. They are all grown right, are good and we answer all letters of inquiry. C. L. CARTER, Albany, Missouri

BERKSHIRES

RIDGEVIEW BERKSHIRES. Two herd boars for sale. One 2-year-old by Forest King. Other males of different ages. Sows and gilts open. MANWARING BROS., Lawrence, Kansas

When writing advertisers please mention Kansas Farmer.

POLAND CHINAS

30 BRED POLAND CHINA GILTS for sale. Spring and summer farrow, bred for April and May litters, choicest blood line, also 5 mature sows and boars ready for service; one by Meddler. Reasonable prices. F. D. FULKERSON, Brimson, Missouri

MELBOURNE POLAND CHINA HERD. The home of the great boar, Gold Metal, 90 good pigs will make prices after July 1. Sows and daughters of Prince Youtell, Chief Gold Dust, etc. Visitors welcome. JOHN C. HALDERMAN, Burchard, Nebraska

20—BIG STRONG BOARS—20 The tops of 50 head ready for service. Want to make room for spring pigs and am making low prices. Strictly big type. HERMAN GRONNIGER & SONS, Bendena, Kansas

10 SUMMER YEARLING POLAND CHINA GILTS by On and On 2nd, bred for June and July farrow to Filbuster by Meddler 111111, \$30 for choice. J. D. WILLFOUNG, Zeandale, Kansas

SHORTHORNS AND POLANDS. Herd bull Acomb Duke 7th 281038. Polanders headed by Big Bone Long. Females represent leading strain. Young stock for sale. FREELAND & WILLIAMS, Valley Falls, Kansas

FOR SALE I STILL HAVE a few good fall boars for sale at very reasonable prices; will also offer my 2-year-old herd boar, O. K. Chief. He is a good individual of the 800-lb. type, heavy bone, a good even breeder. R. J. PECKHAM, Pawnee City, Nebraska

BLUE GRASS VALLEY STOCK FARM. Big boned Poland Chinas. Herd headed by Big Hadley, King Ex. 3d, Long John the 2d and Missouri Wonder, 4 of the best breeding boars of the breed; young stock for sale at all times; everything guaranteed as represented. W. A. Baker, Butler, Mo.

THE HAWTHORNE POLAND CHINAS. Ten Strike, grand champion at the Oklahoma state fair, 1908, heads the herd. Special prices on 20 strictly toppy boars, sired by Ten Strike and out of richly bred sows. These boars are of December and January farrow, good enough to head any herd. 50 choice gilts at very low prices. All pedigrees furnished when hogs are delivered. T. M. CHAMBERS, Oswego, Kansas

OHIO IMPROVED CHESTERS MOSSE OF KANSAS Breeder of O. I. C. Swine. "The best spring pigs in Kansas." ARTHUR MOSSE, Leavenworth, R. F. D. 5., Kansas

MISSOURI VALLEY HERD. Pure bred Ohio Improved Chester White swine. Few Sept. gilts for sale either bred or open. Booking orders for early spring pigs. Satisfaction guaranteed. J. M. DRYDEN, Phelps City, Missouri

MAPLE LEAF O. I. C.'s. Strictly up-to-date Imp. Chester Whites of the best breeding and individuality. A few choice fall gilts and a fine lot of spring pigs to offer. Prices reasonable. R. W. GAGE, R. D. 5., Garnett, Kansas

Gifford's Shropshires.

While at Beloit last week we had the pleasure of looking at the flock of registered Shropshire sheep owned by Mr. E. P. Gifford, and found them to be a fine lot. You should appreciate the opportunity of buying these sheep close home. Visit the herd or write for further information. See ad on Readers' Market Page and mention the Kansas Farmer.

A Valuable Herd Boar Sold.

Through the Kansas Farmer, Roy Johnston, of South Mound, Kan., has sold the great herd boar, One Price 54721, to G. A. King, of Cullison, Kan. One Price is sired by the noted Blain's Wonder by Johnson's Chief by Chief Tecumseh 3d and out of Minnehaha, by Choice of All. One Price is also a litter brother to Mr. Harshaw's King Blain boar. He is not only bred from a long strain of big, smooth hogs but he is a big, smooth hog to show for himself, and has proven a great breeder. Mr. G. A. King will sell in his Aug. 10th bred sow sale 20 or 25 of his best sows bred to One Price. Don't fail to send your name in early for a catalog. It will be worth your trip to attend to see this massive herd boar if you fail to buy a bargain. A full announcement of this sale will be given in a later date of the Kansas Farmer. Watch for it and don't fail to attend. Please mention Kansas Farmer when you write for a catalog.

Guthrie Sells Holstein Bull.

J. C. Guthrie, proprietor of the Alba Dairy Herd of registered Holstein-Friesians at Shenandoah, Iowa, recently sold "Alba Sir Sadie Cornucopia" to R. E. Packard of Germana, Iowa. This is a large, growthy youngster of excellent Holstein type and tremendous butter backing. His dam is a very fine cow, while his sire is a \$3,000 bull with world record breeding. The sire is a son of "Sadie Vale Concordia," the first cow to make 30 lbs. of butter in seven days, holding the world's butter record in 1902 and 1903, and a grandson of "Aagie Cornucopia Pauline," present world's champion in the senior 4-year-old class, with a record of 34.32 lbs. butter in seven days. Mr. Packard has been dairying with Shorthorns with 12 cows. He is selling \$100 worth of cream per month, besides supplying his family. Although this is at least twice as much as the average Iowa cow produces, Mr. Packard is not satisfied and is improving his herd with Holstein-Friesian blood.

Pagett's Duross.

Last week the Alfalfa Stock Farm was visited and Mr. Pagett was found busy putting up a good crop of alfalfa. Over 400 head of red beauties are found grazing on the alfalfa here. The spring pigs are mostly sired by Chief Wonder and Rosebud Chief, two of the best boars ever sired by Ohio Chief. There are also litters by Bonney K., Prince Wonder 2d and W. L. A's Choice Goods out of sows by such sires as Ohio Chief, Kant Be Beat, Pearl's Golden Rule, Billie K. Jr., Chief Wonder, Improver 2d and other good sires. Mr. Pagett is now ready to price you a boar or gilt of the very best breeding and also of the best in quality. Also pairs or trios or even a car load. You will get a good one or none at all. The proprietor of this herd is in the business to stay and guarantees you satisfaction or no sale. If you want Buff Orpington chickens write Mr. Pagett and in either case mention Kansas Farmer.

Save on Your Baling.

Less than 40 cents a ton is the cost with Ertel's new Daisy one-man, one-horse hay press. It is a self-threader and self-tyer and one man can bale from four to ten tons a day. Just think what that means in saving. No big baling crew to feed. No interruption of regular work. You can do your own baling in your spare time. This press is mounted on wheels and can be taken right into the field and the hay baled right at the window. The Ertel Company also make the Cyclone Three Stroke Self-feed Hay Press. This is the latest, most powerful and most efficient horse power press on the market. It is operated by two men and two horses, and will bale from ten to twenty tons per day, with very light draught on the team. A whip attachment can be furnished, making the team drive itself. A new power press which they will have ready this summer is the first practical and economical application of power to a baling press. For information about these presses just drop a postal to Geo. Ertel Company, Quincy, Ill.

D. C. Van Nice's Polled Durhams.

D. C. Van Nice, of Richland, Kan., is one of the progressive and wide awake Polled Durham breeders of the country. He has a fine herd of females that are good specimens of the breed. Some of the very good ones are Eighth Duchess of Linden X by Commander X 233; Carmen X by Red Thistletop X 1258; Ninth Duchess of Linden X by Polled Price X 918; Rosina X by Duke of Rose Pomona 3d X 1479; Rosa Belle 2d X by Prince Royal X 3735, and a number of young cows by the great de-horned, Kansas Boy X 2585, 197989. With such females it necessarily follows that the produce should be good stuff and of high merit. At the head of this herd is the grand bull, Belvedere X 2712 S-h 195058 by Grand Victor X 1685 S-h 150364 out of Blossom 2d X, Vol. 2 S-h 47, bred by J. H. Miller, Peru, Ind. This is what Mr. Miller says of him: "He is a well bred bull. His sire, Grand Victor, was an excellent bull out of a Harris Victor cow, and sired by Golden Gauntlet. We sent Grand Victor to South America in his 2-year-old form at \$1,500." Mr. Van Nice now has a number of young bulls for sale, ranging in age from 1 to 18 months, sired by Belvedere X 2712. These young bulls are all good ones, blocky and smooth. Any one looking for a sire for herd purposes will do well to look at these bulls before they buy elsewhere. Kindly look up ad in this issue and mention Kansas Farmer when you write.

Performance Class.

The last National Dairy Show introduced a new class into its premium list, which promises to become an important factor in the dairy cattle world. This was the class "Cows any age having official yearly records." There has been the feeling on the part of many that there are two classes of pure bred dairy cattle; those which win in the show ring, and which might or might not be profitable producers of milk or butter; and a class which are profitable producers but could not hope to win in the show ring because they lack fancy points which the up-to-date judge must require.

Much as this dual standard had been criticised by some and defended by others, there is a growing sentiment that the greatest good will come to the breeders who recognize both standards and seek to develop large producing animals having the desirable breed characteristics and attractive points.

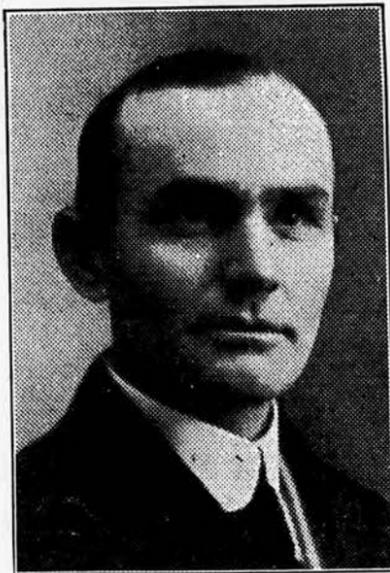
While not satisfied that it had fully solved the problem, the management of the National Dairy Show made the start by including the new class in its premium list. State and county fairs are taking the matter up in the same way.

Chas. Holland of the Holland Stock Farm, Springfield, Mo., is now in Europe buying more horses for importation to this country. The first shipment of Percherons and German Coachers will arrive at Springfield about July 5 and this will be followed by another on August with which Mr. Holland will return. Notice the change in their advertisement in this issue of Kansas Farmer.

To the Editor:—We wish to thank you for the way in which you handled our advertising in the Kansas Farmer. We got lots of good results from it. We shall have a large number of good American bred stallions and mares that will be old enough for the fall trade besides a good importation of Percherons, Shires and Belgians that will arrive in July or August.—L. R. Wiley & Sons, Elmdale, Kan., Breeders and Importers of Percherons, Belgians and Shires.

Hiring an Auctioneer.

At this season of the year when dates are being made for fall and winter sales and the breeder is jasting about for an auctioneer it is sometimes hard for him to make up his mind whom to employ. This is an age of specialties and a man must devote his life and energies to the particular line of work for which he is best adapted. Other things being equal the earlier in life he begins his special work, the earlier and greater success he will attain. Col. Jas. T. McCulloch is of this kind. He took up his work as an auctioneer while yet in his teens and his great success has been due to the diligence with which he has worked at it. He lives at Clay Center, Kan., and it would be worth while to write him before making final arrangements.



PROF. W. M. JARDINE. Prof. W. M. Jardine, was elected to the position of professor of agronomy in the Kansas State Agricultural College last week, to succeed Prof. A. M. TenEyck, who is now superintendent of the Fort Hays Experiment Station. Professor Jardine was born on a farm in southern Idaho. He graduated from the Utah Agricultural College and served in that institution as assistant professor and professor of agronomy during the years from 1903 to 1907. He then went to the U. S. Department of Agriculture as assistant cerealist, and rapidly advanced to the position of agronomist in charge of dry land investigations. Dean Ed. H. Webster, in speaking of Professor Jardine, says, "I have known him for the past four years and unqualifiedly say that I believe him to be one of the most prominent young men in agronomic lines of work today. His training and education and his broad experience in the Department of Agriculture have qualified him for the position such as Kansas has to offer." Professor Jardine is one of the few men in the country who is believed to be big enough to fill the chair so long and acceptably filled by Professor TenEyck.

KANSAS CROP REPORT and Rain Fall for week ending June 18

Because of an accident in the engraving department we are obliged to omit the rain chart this week. As the rainfall was very light throughout the state it is believed that the following notes prepared by Director T. B. Jennings will suffice.

General Conditions.

All things considered, this has been the most favorable week of the season. Corn has made a good growth and has a much better color. Oats and barley are headed and are filling well. Wheat harvest has begun in the extreme south; wheat is ripening in the central counties and filling well in the northern. The second crop of alfalfa is being cut and is a good crop. Cultivators are at work and corn is being cleaned of weeds. In the western and extreme southern counties, where the season has been drier, rain would now be of much benefit.

Reports by Counties.

Allen.—Corn growing nicely. Anderson.—Good week for farmers. Crops in good condition. Bourbon.—Crops are getting a start. Corn is small but has a good color. Prospects better. Brown.—Crop conditions are improving. Chase.—A good week for all kinds of farm work. Chautauqua.—This county, having been outside of the wet weather conditions for the past six weeks, now needs rain. Douglas.—A good week to work in the corn and was fully improved. Elk.—Corn now growing rapidly. Quite a number of chinch bugs at work in places. Greenwood.—Weather fine. Corn improving; oats good; cutting second crop alfalfa, which farmers say was never better. Jefferson.—Weather more favorable for farm work and growing crops. Oats will make fair crop. Some high land orchards full of peaches and apples. Johnson.—The week has been delightful and very seasonable. Crops going forward rapidly. Linn.—Weather fine for all crops. Farmers busy cultivating corn, which is growing rapidly. Wheat ready to cut in ten days, crops good. Hay crops, oats and flax also good. Pastures fine. Marshall.—Warmer, more seasonable, growing weather. Farmers cultivating corn and putting up alfalfa; fair yield. Montgomery.—The best growing week of the season. Fine weather for cultivating corn and harvesting wheat. Corn looks fine. Wheat much better than was expected. Oats filling well. Morris.—Crops backward and corn weedy. Conditions now improving. Nemaha.—Oats look well, and barley is heading. Cultivating corn now. Pottawatomie.—All crops doing well. Low lands will not be planted again this season. Many of the upland orchards are showing apples. Shawnee.—A good week and much needed work accomplished. Woodson.—Good week for farming. Corn looks well and most fields are clean; oats headed, will make fair

yield. Grass and pasture doing well. Middle Division.

Barber.—Wheat ripening slowly, ready to harvest about the 22d; all reports show the crops best ever raised in the county. Oats were never better here. Barton.—Crops making good progress. Wheat harvest will begin last of month. Rain needed for corn. Dickinson.—Has been good corn and haying weather. Farmers busy. Ellsworth.—Wheat outlook improving. Harper.—Hot, windy and dry. Beginning to cut wheat. Chinch bugs threatening. Rain needed. Kingman.—Getting dry. Farmers complaining of chinch bugs, ripening wheat and corn. Oats, as a rule, are good. McPherson.—A dry week. Was good weather to secure second crop alfalfa, of good stand. Rain now needed. Corn very backward. Marion.—Corn improving rapidly. Oats well headed. Good week for alfalfa. Pawnee.—A few binders have started in the wheat; harvest general by the 20th. Corn good stand though backward for season of year. Rain needed. Reno.—Dry week. Corn growing finely and ground in excellent condition for cultivating. Cornfields all clean. Wheat and oats look well. Early apples, peaches, apricots and blackberries being marketed, also late cherries. Saline.—A week of fine hay weather. Washington.—First crop of alfalfa cut; very good crop. Wheat and oats are very good. Corn is backward. Western Division. Clark.—Wheat harvest almost ready. Corn is in good shape. Weather too dry for breaking sod. Decatur.—Alfalfa in splendid condition, much of it in stack. Wheat and barley need rain. Corn small and backward. Gove.—High south wind, hard on spring crops. Wheat holding its own but all crops need rain. Kearny.—Strong southerly wind all the week. Ground dry and rain badly needed. Growing crops, however, are looking well and are all right if rain comes soon. Small grain crops are good but need more moisture to make them fill out well. Lane.—Warm, drying winds; all crops need rain. Norton.—Wheat needing rain badly. Corn doing nicely. Oats standing the dry weather well. Alfalfa going into stack. Scott.—Somewhat dry, though nothing suffering. Weather fine for farm work. Seward.—Wheat and spring crops at a standstill. Wallace.—Corn, wheat, and other crops doing well. Alfalfa nearly ready to cut. Getting a little dry.



Unique barn construction. Arthur Mosse, Route 5, Leavenworth, Kan., has just built this barn with the framing so constructed that there are no posts in the hay mow. The additions on the sides are for the housing of his O. I. C. swine. Mr. Mosse is doubtful if a large separate swine barn is the best for raising hogs.

Mitchell County Breeders' Association

DR. C. B. KERN, President. J. M. RODGERS, Secretary.

Nothing but first class animals offered for sale for breeding purposes Mitchell County Fair, Sept. 28, 29, 30 and October 1, 1910. Premium List Ready June 1.

W. S. GABEL, Secretary. E. C. LOGAN, President.

SHORTHORN CATTLE.

THE PURE SCOTCH BULL HIGHLAND LADDY by Brave Knight by Gallant Knight heads our herd. Some fine young bulls developed for this fall's use. A young herd of real merit. **BRINEY & BRINEY**, Beloit, Kan.

LOCUST GROVE HERD SHORTHORNS. Up-to-date breeding with good quality. **ELMER C. CREWZ**, Beloit, Kansas

BOOKDELL STOCK FARM. Shorthorn cattle. Poland China hogs. Silver Laced Wyandottes. **E. K. BOOKER & SON**, Beloit, Kansas.

FOR SALE—A few young Shorthorn cows and some young bulls ready for service. Best of breeding. Write for information and prices. **VINTON A. PLYMAT**, Barnard, Kan.

HERD BULL. Royal Goods by Select Goods by Choice Goods for sale; also young bulls. Herd headed by Drednaught. **MEALL BROS.**, Cawker City, Kan.

HEREFORD CATTLE.

W. B. & J. M. RODGERS, Beloit, Kan. Breeders of Hereford Cattle and Berkshire Hogs. Quality before quantity. Come and see us.

50 HERKFORC CATTLE, comprising the H. B. Woodbury herd. Some famous cows in the herd. 8 young bulls of serviceable age for sale, four miles from Tipton, Kan., 8 miles from Cawker City. **JOHN SCHMIDT & SONS**, Tipton, Kan.

100 HEAD OF HEREFORDS, the home of Chester 259475, the winner in every big show he ever was in. A few choice young heifers and cows for sale. **F. L. BROWN & CO.**, Sylvan Grove, Kan.

PERCHERON HORSES.

REGISTERED PERCHERONS—The home of Vidoque (Imp.) 40103, also the brood mare Risetete (Imp.) 51115. Inspection invited. Farm adjoins town. **E. N. WOODBURY**, Cawker City, Kansas.

REGISTERED PERCHERON HORSES in stud. Imported Rebelais 42529 by Casaque by Tehidus, who sired Callipao and Casino. Visitors welcome. **C. J. JOHNSON**, Solomon Rapids, Kan.

THE HOME OF JAQUE W. 42659 by Tiatrey, dam imported Risetete. Inspection of my Percherons invited. **RALPH G. MCKINNIE**, Glen Elder, Kansas.

COLEDALE STOCK FARM, the home of three first prize winners at the International. Nothing but the best in this herd. Come and see us. **FRANK A. COLE**, Barnard, Kan.

GRANITE CREEK STOCK FARM. Percheron and Standard bred horses. Make your wants known to **M. A. SMITH**, Cawker City, Kansas.

COACH HORSES.

LAWDALE STOCK FARM, Oldenburg German Coach horses. International prize winning stock. A tried stallion for sale. Inspection invited. **JOSEPH WEAR & SON**, Barnard, Kan.

POLAND CHINAS.

LEBAN CREEK STOCK FARM—Poland Chinas, large herd to select from, fall pigs of both sexes for sale now. Not related. Can also spare a few bred sows. **E. C. LOGAN**, Beloit, Kan.

EUREKA HERD OF PURE BRED Poland Chinas and Duroc Jerseys. Bred gilts and sows all sold, but have a few fall boars and sows of both breeds. Prices right. **W. H. SALES**, Simpson, Kansas.

DUROC JERSEYS.

GOLDEN RULE STOCK FARM—Choice bred sows and gilts for sale at prices to move them, best of breeding and individuality. Satisfaction or no sale. **LEON CARTER**, Asherville, Kan.

ALFALFA STOCK FARM HERD—The best in Duroc-Jersey swine. Orders booked now for early spring pigs of either sex. **PEARL H. PAGETT**, Beloit, Kan.

HAMPSHIRE.

HAMPSHIRE HOGS. Always have stock for sale. Write for prices. **A. B. DOYLE**, Beloit, Kan., Rural Route 1.

O. I. C. SWINE.

TRACING TO THE FAMOUS KERR and Big Mary families. No more females to offer. A few choice bred and open gilts for sale. **T. C. WRENCH**, Beloit, Kan.

AUCTIONEERS.

COL. H. H. VANAMBURG General and Live Stock Auctioneer. PHONE 943. **BELOIT, KAN.**

COL. F. L. SMITH General and Live Stock Auctioneer. PHONE 434. **BELOIT, KAN.**

HAY-MAKING MADE EASY



The greatest labor-saving device for the farmer since the twine binder is the Wehmiller Self-Loading Hay Rack, with which anyone who can drive a team, can load a large load of hay without other labor; no pitchfork or other tool is needed; nothing like it on the market; will work with any of the hay loaders now in use. Write us at once for free descriptive circulars.

WEHMILLER MFG. CO., CLARINDA, IOWA

BIG-BONED POLAND CHINAS

Spring boars for sale, sired by my herd boars: **BLAINE WONDER**, ORPHAN CHIEF 50986 by Orphan 47470, **JOHN LONG** 49897 by Long John 44640, **LOGAN EX. 51718**, by Mammoth Ex. 48933. The best lot I ever raised. Get your order in early and get your pick of my herd.

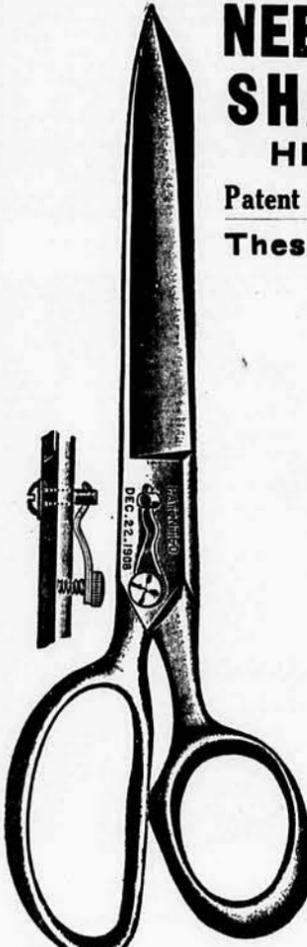
Roy Johnston, South Mound, Kan.

NEED A GOOD PAIR OF SHARP SCISSORS?

HERE'S A GOOD ONE!

Patent Tension—Nickel Plated—Steel Scissors

These Scissors are Self Sharpening



One turn of the little tension screw sets the blades to cut anything from thin tissue paper to a heavy wool blanket. The spring tension keeps the blades working at the proper angle, so they sharpen themselves with their natural wear. The manufacturers of these scissors furnish with each pair, a certificate to the effect "that in case of breakage or defect within five years they will be replaced without cost." You have likely paid as much as \$1.25 for a pair of scissors not as good as these.

YOU CAN GET A PAIR FREE.

Here's how it comes about. Look at the date of expiration on the label of your KANSAS FARMER. If it says June or July, 1910, you should renew at once. Send \$1.00, the regular yearly subscription price, and we will mark your subscription paid for another year, and in addition will mail you **FREE OF CHARGE**, one pair of these excellent 8-inch nickel-plated steel tension scissors, as shown in picture. Why worry along with a dull pair of old scissors when you can get a brand new superior pair on such easy terms, and with so little effort?

Use the coupon below, or write a letter similar to it, enclose with a dollar, in any form of remittance (2c stamps or your check will do) and mail to

KANSAS FARMER, Topeka, Kansas

USE THIS COUPON—CUT OFF HERE

KANSAS FARMER, Topeka, Kan.

Gentleman:—Enclosed find \$1.00 for one year's advance subscription to KANSAS FARMER.

Name P. O.

R. F. D. County State

As a premium send me the TENSION STEEL SCISSORS.



Sanitary Hog Fountain

Manufactured by
HUTCHINSON TANK MF'G CO.
HUTCHINSON, KANS.

Write For Prices and Descriptive Literature

SHEPHERD PONIES FOR SALE—20 imported stallions and few bred mares. We have recently returned from Scotland with the finest importation of ponies ever brought to Nebraska. Write for private sale catalog. **CLARKE BROS.**, Auburn, Neb.,

PERCHERONS REGISTERED.

A choice lot of two-year-old fillies in matched teams; will breed them to any of my herd stallions; will sell 10 or 15-year-old all registered and of the best blood lines. Every animal sold sound. **J. W. BARNHART**, Butler, Missouri.

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