

KANSAS FARMER

For the improvement

of the Farm and Home

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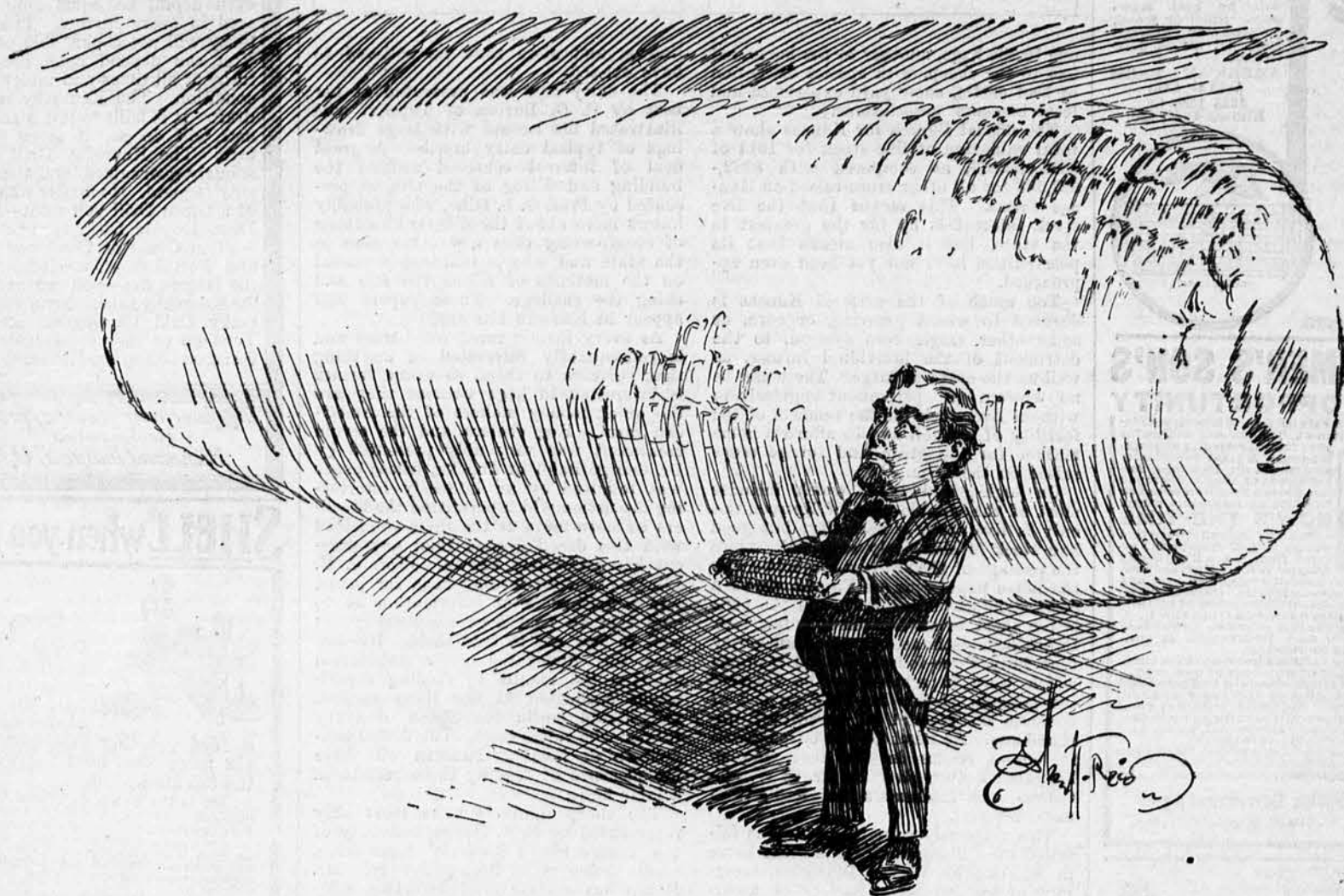
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The farmers who made Kansas were charged with a divine unrest which caused them to seek new homes because of an idea. They worked and fought and dreamed dreams, and in their fruition, with science and mechanic arts for their handmaidens, they crowd their bins with greater crops than could have been produced by early methods in all America.

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—I. D. G.



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Improved Stock Breeders' Association

The Products of Kansas' Most Important Crop Hold a Very Successful Meeting

When the Kansas Improved Stock Breeders' Association closed its sessions last week it marked the twenty-third mile-stone in its history, and concluded one of the most successful meetings it has ever held.

Although the severe stress of weather prevented the attendance of many who could not afford to leave their herds with the mercury laying about the bottom of the tube, there was a surprisingly large number present, and these came from all parts of the state.

The program was a strong one—one of the best that has ever been rendered in Kansas—and was arranged so as to give one session to the dairy interests,

he was listened to with intense interest for more than two hours.

As it is our purpose to publish these valuable papers in subsequent issues of KANSAS FARMER no synopsis of them will be attempted here. It was stated by many of the members and visitors that these three papers, comprising the horse session, together with their discussions, amply repaid them for all the trouble and expense in attending the meetings. One member stated that he had been handling horses practically all his life and had attained some skill in the shoeing and caring for their feet, but that he had learned more about the horse's foot at this session than he had ever



GEO. B. ROSS, Alden, Kan., President
Kansas Improved Stock Breeders' Association.



I. D. GRAHAM, Topeka, Kan., Secretary-Treasurer
Kansas Improved Stock Breeders' Association.

one to the hogs, another to the horse and one to the sheep, with special discussion of beef cattle, show yard experience and local breeders' associations.

The official figures for Kansas show a total valuation of live stock for 1911 of \$251,632,488, as compared with \$282,927,188 for all other crops raised on Kansas farms. This means that the live stock interest is by far the greatest in the state, but it also means that its possibilities have not yet been even approached.

Too much of the area of Kansas is devoted to wheat growing, or corn, or some other single crop system, to the detriment of the individual farmer, as well as the state at large. There can be no system of permanent agriculture without live stock for the renewal of the fertility of the soil and to afford a home market for the grain and forage crops raised on the farm.

On high-priced land, which includes most of the tillable area of Kansas, not only is live stock a necessity, but good live stock is absolutely essential. Since the passage of the stallion inspection law the horse population of Kansas shows a marked improvement, although the time is too short to have given it a fair test. It has been estimated by good authority that fully three-fourths of the stallions which were in service at the time of the passage of this law will go out of business on account of hereditary unsoundness. As much of the unsoundness in horses occurs in the feet, the illustrated lecture given by Dr. C. W. McCampbell on the horse's foot, had an unusual interest.

This extremely valuable paper was followed by a discussion of the draft horse in America by Wayne Dinsmore, secretary of the Percheron Society of America, who gave one of the most comprehensive views of the scope and purpose of the draft horse that has ever been listened to by a Kansas audience. As a rounding out of that portion of the program devoted to the horse, Mr. G. L. Carlson of Norfolk, Neb., presented a new line of thought on scientific breeding. His discussion proved so interesting and so full of valuable facts that he was called upon a second time, when

known, and more than he believed to have existed.

The dairy cow was presented at her best by G. G. Burton of Topeka, who illustrated his lecture with large drawings of typical dairy breeds. A great deal of interest centered around the building and filling of the silo as presented by Prof. G. S. Hine, who probably knows more about the different methods of constructing than any other man in the state and who is thoroughly posted on the methods of filling the silo and using the ensilage. These papers will appear in KANSAS FARMER.

As every farmer must use horses and is consequently interested in anything that pertains to them, so every farmer is interested in hogs because they are the quick money makers of the American farm. Hog cholera and the serum treatment was very ably presented by Dr. George Babb, of Topeka, whose paper was followed by an intensely interesting discussion which permitted the breeders to learn more of the facts connected with this dread disease than any present had previously known. Prof. P. N. Flint's paper on feeding hogs for profit was a cyclopedia of information as to how best to feed hogs successfully, as well as how not to feed them. His lecture was illustrated by a tabulation showing the results of feeding experiments conducted at the Hays station, and should be in the hands of every farmer who raises hogs. The 65,000 subscribers of KANSAS FARMER will have the pleasure of reading these results in a later issue.

The sheep interests were most ably represented by E. E. Hazen, secretary of the Kansas Sheep Breeders' Association, whose home is in Brown County. Mr. Hazen has a clear and attractive manner of presenting the merits of his favorite breed of live stock, and his success in his home county, which has always been considered one of the richest in the state, clearly demonstrates the fact that there is no corner in Kansas too rich for the profitable growing of these meat and wool producing animals.

J. M. Rodgers, secretary of the Mitchell County Breeders' Association, told

(Continued on page eight)

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KANSAS FARMER

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PUBLIC ROAD WASTE.

The most expensive thing in America is politics, and, aside from this, there is more money wasted on our public roads than on any other one thing of a public nature. In the first place, the country roads in Kansas are too wide, and there results a waste of good land. In the second place, the roadsides are not cared for, and there results an enormous waste of time and energy in fighting the weeds which we grow in these public nurseries for private distribution over our farms. And then the roadside ponds that are carefully preserved that we may be sure of no shortage in the mosquito crop are also most valuable as breeders of disease and discomfort.

But the greatest waste comes through our strongly fixed habit of doing all public road work in a shiftless and temporary manner. Working out road taxes and building poor roads are two of the best ways of wasting the public money that have yet been discovered.

What makes these wastes so severe lies in the fact that they are wholly unnecessary. Roads and bridges cannot be had without expense, and if they could be they would be worth nothing. But the expense does not need to be a tithe of what it now is, and we would have real roads and real bridges.

The road drag and crude oil will do more to solve the road problem than any other things that have been discovered, provided these are used by the man who knows how. With great quantities of oil lying beneath her sod and with abundance of materials and skill for the road drag, Kansas does not need to suffer from the mud tax.

Bridges and culverts should be built with the idea of permanency and none should be built without. These are more expensive as to first cost, but much cheaper in the end. Any temporary structure which needs constant repairs from the beginning will eat up money, and do it rapidly, and the worst of it is that it is all so useless and unnecessary.

All road work and all tree work should be in the hands of paid experts who would produce results and save nine-tenths of the money which is now so utterly wasted.

Ability commands not only respect, but cash as well. The young men of Kansas who attend the Agricultural College are learning to capitalize their brains and they find that it pays. The college reports that the demands for trained men and women made upon that institution far exceeds the supply, and that during the last month there have been requests for 18 persons capable of teaching agriculture, eight for domestic economy, and seven for manual training, at salaries ranging from \$700 to \$1,800 per year. The college was wholly unable to supply these demands and these positions were begging. One of the reasons why this is true lies in the fact that many of the young people who receive their training at this institution return to the home farm to live the independent life of the farmer and to put in practice what they have learned.

The length and severity of the cold snap brought much suffering to the people of this country who were but poorly prepared to resist it. This suffering occurs mostly in the cities and towns where it bears heavily upon the wage earners. In the country but little real suffering is to be found, though the discomfort and inconvenience are great. Among our animal friends, however, the case is different, especially among the wild ones, and no expression of humanity is finer than that which provides an occasional handful of grain for Bob White and his kin. The ice cap will probably prove the means of destruction to thousands of wild things, and to some wheat and alfalfa, but by taking a little trouble great numbers of quail may be saved.

TO HELP SPREAD THE GOSPEL.

A plan to enable agricultural colleges throughout the country to do extension work by talking to the farmers of their respective communities the best methods of intensive agriculture, is contemplated in a bill which will be introduced in Congress this month. The bill is in line with other efforts for promoting agricultural education by providing for and maintaining an agricultural expert in each county, a thing several states are now doing. Superintendent Miller, of the extension department of the Kansas Agricultural College, a few weeks ago elaborated on this idea in these columns.

The leading spirit in this movement is the National Soil Fertility League, which number among the members of its advisory board President Taft, Secretaries Wilson and MacVeagh, Speaker Clark, James J. Hill, William J. Bryan and others of national prominence.

The object of this latest agricultural propaganda is to bring the farmers into personal touch with soil experts and with the results attained in agricultural schools with a view to largely increase the output of the farm.

The bill contemplated will ask at first an annual federal appropriation of \$500,000, or about half a cent per capita, this appropriation to be gradually increased for five years until a maximum of \$5,000,000 has been reached. Estimates show that the expense of maintaining a soil expert in every agricultural county in the United States would not exceed ten cents per capita per year.

It is a well known fact that no system of crop rotation will restore to the soil the potash and phosphoric acid removed by crops. Unless these elements that are removed be returned in some manner, the soil will inevitably become too poor for a very ambitious man to cultivate. Common stable manure is conceded to be one of the best fertilizers for general purposes, and it is to be deplored that much of this valuable plant food be dumped away as so much trash, or exposed to the leaching rains even when intended for use. If it can make poor soil rich it can certainly maintain the fertility of rich soil. It is not insisted that the use of it would be advisable in all cases, since the fertility of the soil and the crop to be raised should be the governing factor, but it is safe to assert that all stable manure can advantageously be used in any general farming community.

"Drouth never bred dearth in England" is an old saying which had seemed to be true until the summer of 1911. Formerly a dry season usually brought wealth to English farmers, because it meant a bumper wheat crop, which was never sure under normal conditions. As these farmers have long since learned that disaster follows the single crop system and have "gone into live stock," they are as anxious in regard to a protracted dry spell just as are some other people. Grass is the mainstay of English agriculture, though this is supplemented strongly with roots. When these crops are injured their agriculture is hurt.

The winter is the school time of the boys and girls, and it should also be of their parents. More profit can be made in the winter months which are devoted to reading and study than by any other single farm operation, for reading is a necessary farm operation.

Unclassified horses frequently sell at low figures on the market, and many get the idea that the bottom has dropped out of the horse business. Good drafters never sold for more money than they now bring and they never will go cheap again. Breed drafters.

The same forces required to make and develop cities will apply with equal force to the development of rural communities.

PRESENT DAY CALL FOR TEACHERS

The young man or woman who by necessity or choice feels that he or she must leave the farm should keep an open eye on those callings in which there is a demand for labor. The country school teaching profession is pretty well crowded—so much so that salaries are now quite small—the law and medicine have about all the practitioners needed, and the same is true of most other professions known to us. But, there is a demand at good wages for teachers of agriculture and domestic science, and that is particularly true in Kansas, which state is well in the front rank in giving its boys and girls this kind of instruction.

That this is true is evidenced by the fact that within the last month the Kansas Agricultural College has had 18 calls for teachers of agriculture at salaries ranging from \$1,000 to \$1,800 per year; eight calls for domestic science teachers at salaries ranging from \$700 to \$1,600 per year; and seven calls for teachers of manual training at \$720 to \$1,200. The positions having the higher salaries demand men or women with several years' teaching experience and college training. The agricultural college is not able to supply the demand.

The Arkansas City, Kansas, farmers' institute has set a new pace for farmers' meetings. Heretofore, like other institutes, it has confined its meetings to a discussion of how to raise more and better crops, and more and better live stock. This year it is going to take up a discussion of these matters, and also going to discuss the matter of getting the crops and live stock to market at a less expense to the farmer. It is believed to be as important for the farmer to have a cheap market as it is for him to raise an abundance of good crops and good live stock. With this idea in view, a discussion of the question, "The Relation of Freight Rates to the Farmer," was arranged for, and officials of the Santa Fe railroad discussed the subject and answered the question of the farmers. Discussions of such subjects add zest to the meeting and give valuable information.

Agriculture in its different phases is demanding more attention today than ever before. This question, Prof. Robertson of Canada says, not only includes cultivation of the land but the culture of the people who live on the land. Wealth may be defined as anything that administers to the wants or happiness of man and the ownership and possession of which may be transferred from one person to another. Its original sources are the sun, soil, air, water, plants, animals and labor. It is the task of the agriculturist to so manage these agents and agencies as to obtain the largest and best services for himself and fellows for them. The outcome of true culture is the exercise of intelligent purpose in the activities of life, and that in his occupation stamps the farmer as a man of real culture. It is a false idea that culture is found only in idleness, amid luxurious surroundings.

Right now is a mighty good time to prepare for the next corn crop by seeing if the corn which has been saved for seed still retains its vitality. It is bad policy to plant poor seed, but utterly useless to plant that which will not grow.

A study of the market and its methods is a very important matter to be included in the winter course of reading which the farmer maps out for himself. Selling is just as important as raising a crop.

The most essential thing in the development of either the country or the town is a hearty co-operation of the community members who must work with the same object in view.

FARMERS' WEEK IN TOPEKA.

In spite of the severe weather the farmers of Kansas turned out in goodly numbers to enjoy the good things provided for them in Farmers' Week in Topeka.

That these men who do things and upon whose shoulders rest the burdens of the welfare of the state are welcome to their own capital city, goes without saying, but that such gatherings cannot be more frequent or that weather conditions should interfere with the most important meetings of the year is to be regretted.

Topeka is becoming a convention city in a larger sense than ever before. Indeed, it is the convention city of the state, and this is as it should be, but there are no conventions held here which are more important to or have a greater bearing upon the general welfare of the people of the state than those which convened last week.

Kansas agriculture is a new thing, built under new and untried conditions and by men who braved more and endured more than did the Pilgrim Fathers, but whose reward has been as great.

The Pilgrims came to this country to escape persecution. The pioneer farmers came to Kansas to endure it. With the idea of securing new homes for themselves as the controlling motive, that of making of these broad prairies a home land that should be forever free in the highest and best sense of freedom, was dominant.

Among the rewards for their bravery, their endurance and their courage have come the good things of life, not the least of which is this week of intellectual feasting in the capital city.

The "know how" is just as essential to successful and comfortable farming as land, and often more essential than cheap land. And what a chance the young farmer of today has to get this "know how." A course in an agricultural college is open to him if he cares to take it, but even if he cannot attend school he may have at a very small cost the experiences of many generations of farmers and stock breeders right on his own table, in the form of the best agricultural papers and books. The history of the world proves that those who educate themselves are among the best educated. It may take a little time and some of that queer thing that we call "grit" for want of a better word, but educated the farmer of today can be if he only says "I will."

"As a man thinketh so is he," and the young farmer of today who thinks and believes that he can and will conquer the problems of today just as his ancestors conquered those of their day and generation, is the kind of man that will succeed just as sure as daylight follows darkness. The young men who are always needed in this world are those who are willing to try, and to try, try again if need be, but there never will be any room here on earth for those who say either by acts or words, "I can't."

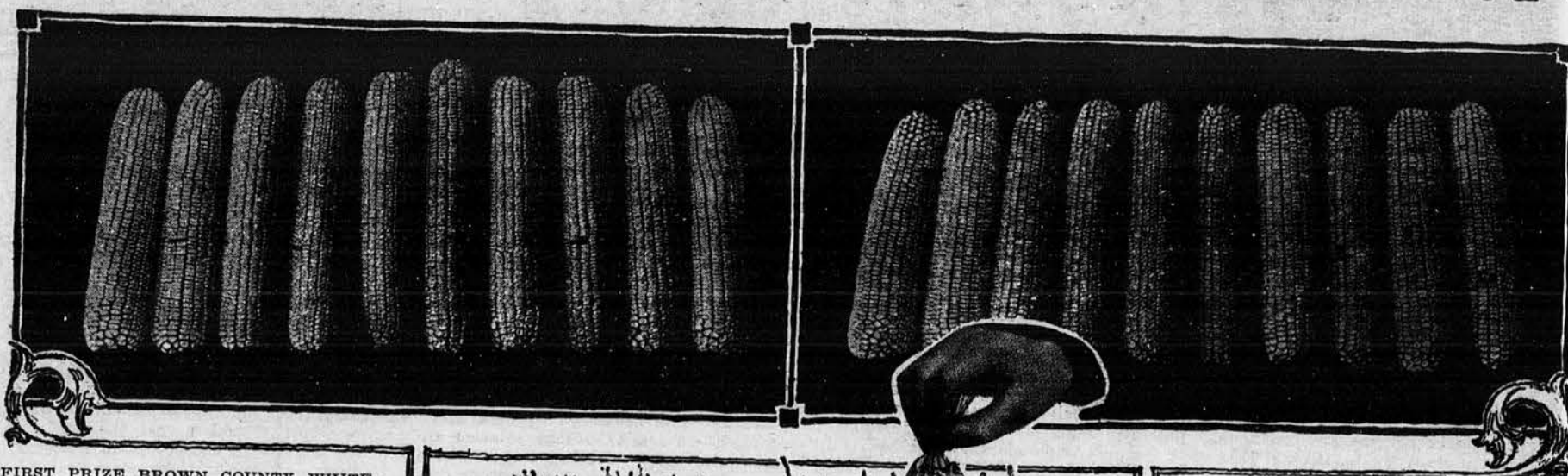
The idea of having all farmers' institutes and all public schools in Kansas discuss corn culture during the same week cannot be too highly commended. Corn is the most familiar crop to both the farmer and his family, yet it is doubtful if many of them know all about it. Whether any do or not, there are always the younger farmer and the city man who has been attacked by the back to the land "bug," who need information. The Agricultural College extension department has done nothing better than this.

Kansas takes first rank among the states in wheat production and stands third in corn production. She was exceeded by the corn crops of Illinois and Iowa only. Not so bad for 1911, after all.

TEST YOUR SEED CORN

KANSAS FARMER

January 20, 1912



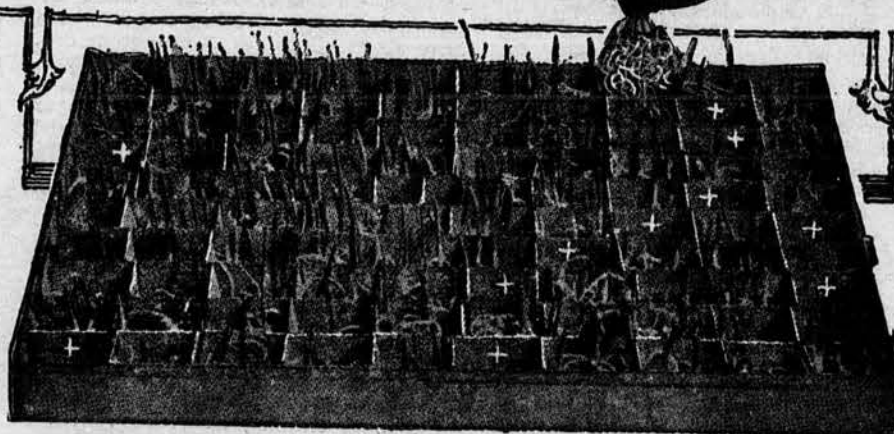
FIRST PRIZE BROWN COUNTY WHITE CORN, K. S. A. C. FARMERS' EXHIBIT, 1911. GROWN BY H. V. COCKRAN, TOPEKA, KANSAS.

SWEEPSTAKES YELLOW DENT CORN, K. S. A. C. FARMERS' EXHIBIT, 1911. GROWN BY S. G. TRENT, HIAWATHA, KANSAS.

YOU understand that in studying seed corn selection for this spring's planting we are five or six months late. This year's seed corn should have been selected in the fields before October 15, 1911. I did not at that time have a chance to coach you on field selection, and now each of us must do the best we can under existing circumstances. Along about August 1 of this year I will, in this series of articles, reach the point at which these articles should have begun. Next year we will correct the mistakes of this year. That is a good motto for each of us. Let us adopt it now. For the benefit of the boys who will follow these seed corn articles more closely than the older men, I will say that of the two or three most interesting phases in seed corn selection and improvement the study of the ear in the field is the most interesting. If I were to send a boy to select a bull calf to grade up the farm herd, that boy would want to see the calf's dam and sire. For the same reason we want to see the stalk on which our seed ear of corn grew. I am sure that point is plain, and I mention it just now in order that the boys who are selecting seed corn will realize that the same principles for, and certainty of, improvement lie in our corn fields as exist in our cattle, swine or horse herds.

Since the publication of the first article of this series I have received many letters saying that the writer had made the first selection of corn from which the seed is to be finally selected. I hope that a large number of farmers have done this and that the corn had dried thoroughly before the extreme cold spell of last week and the week before. I know that corn full of moisture has been greatly damaged if exposed to the low temperatures of the recent cold snap. So there is now all the more reason why this seed corn selection should have your earliest and best attention. If you have not selected from the corn in the crib few degrees above freezing. Have the shelves out of reach of mice or rats, and do not have them in barns or sheds over horses or cattle, because of the moisture in such buildings. A shelf is not recommended as a suitable arrangement for storing seed corn, but since you will select hurriedly from the crib and will not closely discriminate between ears at that or shock some 10 or 15 bushels of the best ears, do that thing now. Do not put it off. Do not wait another day. Get these ears spread out on shelves, one ear deep, in a dry, ventilated place with a temperature, if possible, just a time, you will have too much corn to string or properly racked for drying and keeping. The shelves will suffice if corn is only one ear deep and if every day or two you turn the ears—that is, turn up that side of the ear which has rested on the shelf. Give the ear every chance to dry.

That you might know what type of ears to select, I printed in the first article a large cut of a near perfect ear. On this page pictures of other good ears are printed. You will find in your crib ears which closely resemble these pictures—at least in so far as outward appearances are concerned. The size of cob, shape of kernel, etc., of the near perfect corn will be discussed when we reach the point of selecting those ears, the kernels from which we are going to



GERMINATION BOX FOR 25 EARS. CROSSES SHOW EARS WHICH FAILED TO GROW.—"CORN FACTS," NATIONAL SEED TESTER COMPANY, DES MOINES, IA.

plant. An ear may present a good outward appearance but have a large cob, a short kernel, etc., and so be very poor corn to plant. While making this preliminary selection pay special attention to selecting the most solid ears. If the kernels are sharp and rough on top, but the general character of the corn you have planted has been smooth, this condition indicates an immature ear and is likely to be poor seed. If the kernels

are loose on cob and have a shrunken appearance, immaturity is again indicated, and invariably such corn will be low in germination and vitality. But, get out of the crib at once plenty of the best ears from which to make the final selection, get these ears to drying as directed, and arrange at once to find out something about the growing qualities of the lot.

Every farmer who is going to make

HOW TO GROW AND SELECT PRIZE WINNING SAMPLE OF CORN.

FIRST, select a piece of ground well suited to corn, but not too rich. Soil too rich makes the corn grow coarse and ill shaped.

Having selected the ground, put it in the very best possible shape for corn, keeping the weeds down and storing and conserving the moisture by disking or harrowing frequently.

To grow prize winning corn you must plant prize winning seed. Select a variety that is well adapted to your soil and climate—a variety that has years of breeding behind it, so that it will be able to reproduce itself.

If you are not raising this kind of corn, send to some reliable breeder for enough to plant your field. Select all the very best of the show type ears and plant them together, either in the center or on one side of the field. By doing this you have the choicest ears together to pollinize with each other.

Plant at the too early, but ground is warm stay warm. Corn when the ground and when it is is doing bad, oughly, lossening oughly the first through the field shallower as the Cultivate as long order to keep the to keep up a dust moisture. Having of pure-bred corn, card, and find an ideal ear, In selecting your plenty of time. After the corn is dry enough to keep without moulding, go through the field with a sack on your shoulder, taking two rows at a time, and examine all the ears that seem to be about right according to the score card. Gather all the best ears in this way.

After you have gone over the field you will find that you have a very nice lot of corn to select your sample from. Make your sample conform to the standard of the variety raised. Make the sample uniform in length and circumference, uniform in type, color, size and shape of grain. Take several kernels from each ear, and see that the germ is large and bright.

By following the above plan I have been able to win the first prize at the Kansas State Corn Show, held at Manhattan, on either my Pure-Bred Reid's Yellow Dent or Boone County White for six successive years, including sweepstakes four years.



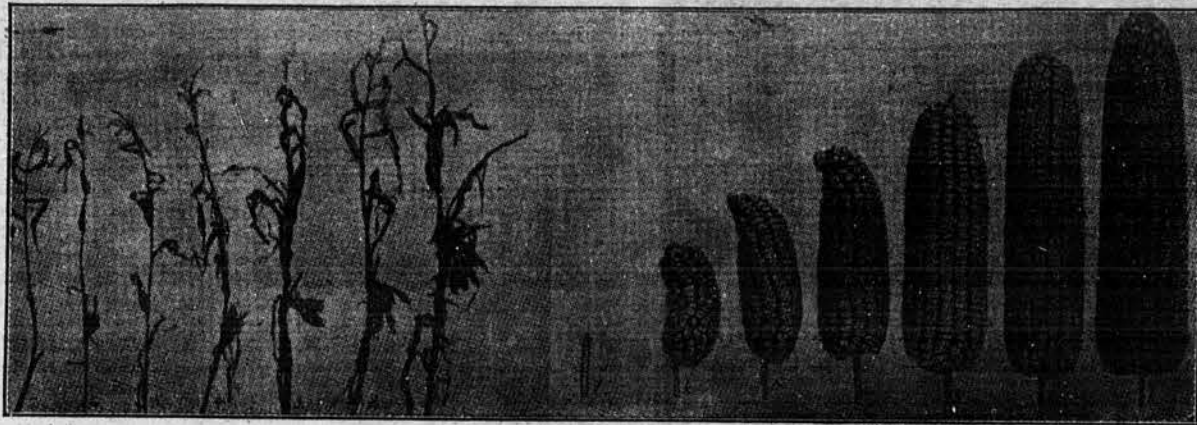
S. G. TRENT.

the most from his corn field must select his seed along the general ideas outlined in these articles, he will test the seed to determine whether or not it will grow, and then he will grade the seed in order to get uniform planting and uniform stand. The best corn growers have recognized every one of these processes as being essential. The reasons are good and sufficient, and I will elaborate upon each as these articles progress. Suffice it now to say that for your own good you cannot afford to do otherwise than accept the now general ideas regarding corn growing and climb into the band wagon. You will be in the wagon leading the procession when you have the "know how" and have supplied yourself with the proper equipment. You need right now a germination box or corn tester. You need this for your own exclusive use. You will need later a corn grader. Your neighborhood can own the grader if you care to promote a co-operative institution. Corn testers are made in 200, 400 and 800-ear sizes, and sell at prices ranging from \$5 to \$30. The size of tester you will require depends upon the amount of seed you use. If you were buying a \$10 tester and with it should test out two ears of corn which would not grow, you would, by so doing, more than be paid for your tester. One ear of good seed corn equals about 10 bushels of crop. This shows how important it is to plant only corn from ears which grow.

This tester will not only locate those ears which fail to grow, but will show up those ears which are weak and which produce only a sickly, spindling sprout and a weak root system. Such ears are low in vitality—they are not strong and are poorly prepared to cope with cold, wet weather or dry weather, or any other adverse condition at planting or during growing time. You would not breed to a weakly or sickly stallion or bull. Do you want to spend your time planting and cultivating, and give the time of your land, to a lot of sickly seed corn? You can make a home-made tester or germination box for the preliminary test, which I will below describe, but when it comes to testing the seed for 60 or 80 or more acres of corn you can afford to invest \$10 in a tester designed to give best results and which is convenient and labor saving.

Assuming that you have made the preliminary selection and have four or five times more ears than you will need for planting, and the same are now drying and so taken care of as to prevent further damage, arrange at once to make a test for germination—this to determine the general quality and the value of the corn from which you will select the seed. You may find the corn so poor that it would not be wise to plant even the best ears. If the corn grown heretofore has been mixed and scrubby, I would not plant seed from it. I would buy good tested seed and save the trouble. But, if your corn is from good seed and has been kept reasonably pure and you are satisfied with its quality, I would select seed from it if the test shows that it is of good vitality and will grow. Acclimated seed, I believe, is preferable to seed moved long distances. But Kansas has seed corn breeders and growers enough to obviate the necessity of purchasing corn from afar.

RESULTS OF SCRUB SEED CORN



No. 1 has a fairly good ear, weighing 16 ounces; one stalk per hill on one acre of ground, each producing an ear of this weight would yield 50 bushels and 56 pounds at the rate of 70 pounds per bushel. No. 2 Weighs 10 ounces; one stalk per hill would yield 31 bushels and 52 pounds. No. 3 weighs 9 ounces; one stalk per hill would yield 28 bushels and 40 pounds. No. 4 weighs 6 ounces; one stalk per hill would yield 19 bushels and 3 pounds. No. 5 weighs 3 ounces; one stalk per hill would yield 9 bushels and 36 pounds. No. 6 weighs 1 ounce; one stalk per hill would yield 3 bushels and 12 pounds. No. 7 produced the ear that is not there. Nos. 4, 5, 6 and 7 are worse than worthless in the field, on account of their producing pollen, which is distributed over the field. Note what just one ear like Nos. 1, 2 and 3, in each hill would produce, then figure what your field will produce by raising three such stalks or ears in each hill.—From "Corn Facts," National Seed Tester Co., Des Moines, Iowa.

For the preliminary germination test select not less than 25 of the best ears—those considered best from the standpoint of soundness and maturity and at the same time conforming to the general appearance of the near perfect ear. Test these ears—the results will tell you whether or not it is possible to obtain good seed from the corn you grew last year. See the picture of the tray of tested seed corn on this page. This is a tray from the Holden Ideal corn tester and is one of a number of such trays as you will get in case you buy a tester. This tray will test 100 ears—one ear for each of the little squares. Note the boxes marked X. The kernels planted in each of these did not grow, and of the 100 ears 11 ears, or 11 per cent, of the seed was dead. You can at once see that you could not afford to have 11 per cent of your seed corn fail you. That would mean a poor stand before you ever begun planting. In my test of 25 ears picked up here and there over Kansas, 5 ears, or 20 per cent, failed to grow. This result would indicate that Kansas farm corn would not be safe from which to select seed for next spring's planting—at least should be tested before being depended upon for seed. The recent cold weather has rendered the situation all the more serious. For the preliminary test elsewhere outlined you need not buy a tester, but since the tester is a thing you will need each year, and since every ear of this spring's seed should be tested, it is well enough to face the situation squarely and prepare to do the work as it should be done.

Now for the preliminary test—that test to determine the vitality and the growing ability of last year's corn, that you may know whether or not it is safe to plant seed selected therefrom. Sand or sawdust make the best seed bed for germinating corn, but I know that on many farms these cannot be obtained without some trouble, so I suggest a home-made germination box recommended by the United States Department of Agriculture, and in it I see some advantages.

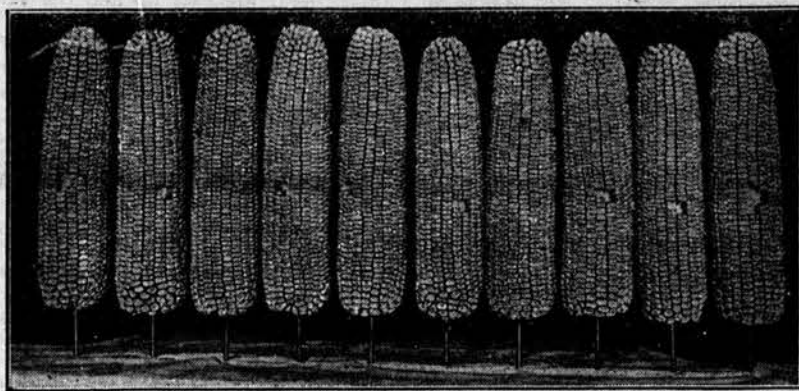
The box should be 1½ or 2 inches deep inside, and the length and width 18 to 20 inches to accommodate 25 ears. The box should not be made water-tight. The seed bed is made of heavy Canton flannel or similar material, having two or three thicknesses of cloth in the bottom of the box and one or two thicknesses of cloth for covering the kernels after the squares have been filled. A new cloth should be thoroughly washed before using. With a lead pencil mark the cloth into squares 3 to 4 inches each way, to conform to the partitions in the box illustrated.

For use, first wet the cloth thoroughly by soaking in water, and then place the half of the cloth, double thickness, which has been marked in squares, in the bottom of the germinating box. The kernels from ear 1 are then placed, germ side up, in square 1, and so on, as already described. When all of the squares have been filled, fold the other end of the cloth carefully over the kernels. If during the sampling the cloths have become dry, sprinkle them well with water. Cover the box with a piece of oil cloth to prevent the evaporation of the water from the cloths, and set the box aside for a few days to await the results of the test.

The principal advantage of a germinating box of this kind is that it is almost impossible to injure the corn by the addition of too much water, as is frequently done where tests are made in soil or sand. Moreover, the entire development of each kernel, both root and stem, can be observed, and the sampling can be done in about one-half of the

of oil cloth is used for the cover, the amount of water condensed on the under side of the oil cloth will usually show whether there is lack of moisture.

Corn germinates best at a temperature alternating between 65 and 85 degrees, F., representing in a way what actually takes place in nature, the higher temperature prevailing from four to six



THESE ARE GOOD MODELS AND SERVE AS A GUIDE IN SELECTING GOOD SEED EARS.

time required when sand or soil is used. The moisture necessary for germination is supplied from the wet cloths, and in most cases the first wetting will be sufficient to complete the test. However, if at any time the cloths become dry, they should be moistened by sprinkling a little water over the top. If a piece

hours during the day and the lower temperature at night. Temperatures such as are found near the stove or furnace in the country home approach these conditions quite well. It is important, however, that the temperature does not get too low during the night; a drop much below 55 degrees F. will seriously affect the reliability of the test.

The number of kernels to be used for the germination test may be varied somewhat, but six kernels taken from different parts of the same ear give reliable results. The kernels from ear 1 should be placed in square 1 of the germinating box, the kernels from ear 2 in square 2, and so on. The kernels should be placed germ side up. Tie a tag on the ear to correspond with the number of the square in which the kernels from that ear are placed.

The kernels can best be removed with a dull pocket knife or similar instrument. Grasp the ear firmly in the left hand, pointing the butt of the ear away from the body. With the knife in the right hand the kernels can be easily removed by forcing the blade down along either the back or side of the kernels. As the kernel is loosened, grasp it on the opposite side with the thumb and transfer it to the proper square in the germinating box. The first kernel should be taken about two inches from the butt of the ear. Give the ear a quarter turn either to the right or the left, and remove the second kernel from the center of the ear. Make another quarter turn, and take the third kernel about two inches from the tip of the ear. Holding the ear in this same position, take kernel 4 about two inches from the butt of the ear. Make another quarter turn, and take the fifth kernel from near the center of the ear. Make still another quarter turn, and take the sixth kernel about two inches from the tip of the ear. The ear has now been turned completely around, two kernels have been taken from the butt, two from the center, and two from near the tip of the ear. If the work has been well done, each set of two kernels was removed from exactly opposite sides of the ear.

The kernels should begin to germinate freely about the third or fourth day, but the counting should not be done until the sixth or seventh day, or until most of the shoots or stems are from 1 to 1½ inches long. This part of the testing must be done with considerable care and requires good judgment, as kernels will be found in all stages of development. The thoroughness of the testing depends on proper selection at this time.

If the six kernels in any one square in the germinating box show six good, healthy sprouts, the ear which they represent should be taken for seed. If one of the six kernels fails to germinate, or gives even a weak root or stem, the ear which it represents should be discarded as unfit for seed. There will also be cases in which all six kernels have germinated, but will be lacking in vigor. Under the most favorable conditions kernels of this kind might produce a good ear of corn, but as the chances are that they will never develop, or else will produce only a barren stalk or perhaps a nubbin, such ears should not be used for seed. It is thus only necessary to remember that all ears showing dead kernels or weak and poorly developed sprouts must be discarded, and only those used for seed in which every kernel tested has given a good, healthy sprout. In general, if the seed shows weakness in the germination box it is weak and will not produce good stalks with big ears.

TO FARM BOYS AND GIRLS

NO other one thing could be of as much value and interest to you as the testing of the corn from which your father will select his seed for this season's planting.

I would like to see you make this germination test, directions for which are in this article.

Your school could make a community test, which would be of much value and a fine school exercise in your study of agriculture.

Show this paper to your teacher and ask that he or she use the information in this week's KANSAS FARMER in making a germination test.

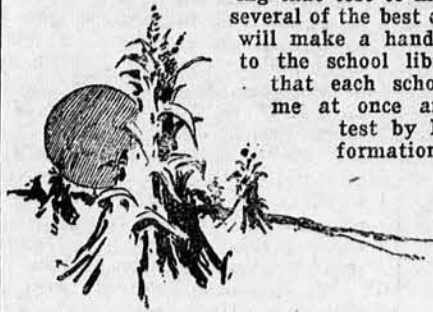
Each farm in the neighborhood should contribute an ear or two, the ears to be selected by the boy or girl attending from the farm furnishing the corn.

The teacher and pupils will together furnish the material for the test and make the test together.

This will make a fine exercise.

To every school making this test—the willingness of which the teacher will at once notify me—I will send KANSAS FARMER until the close of the school term. This paper will contain these corn articles through the seed corn season.

To the school making the best report of its test and reporting that test to me, I will give for its library, several of the best corn books published. These will make a handsome and valuable addition to the school library. It will be necessary that each school making the test notify me at once and send me report of the test by February 5, 1912. Full information for making the test is contained in this article, and the character of report on the test teacher should make is apparent.



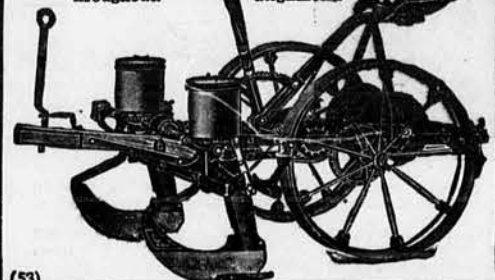
J. A. Borman

This Corn Planter Plants With Human Finger Accuracy

A Wonder-Working Machine that Measures Distance, Counts and Plants Seed as by Hand. All you do is drive. This remarkable planter does the rest. No matter whether you go fast or slow, the positive force feed valve of the Rock Island regulates the drop; every row is as straight as a string. Actual tests prove that no planter ever equalled this one in accuracy of drop. Can change instantly the number of kernels without stopping or leaving seat. Nor is the Rock Island No. 1 equalled in strength and simplicity of operation.

Convertible Drop
Plants flat or round seeds. Flat and edge drop plates changed in a jiffy. No complicated parts. Simplicity throughout.

The Perfect Clutch
The only driving clutch and variable device that will stand up under severe use. Bearings wider, better than all others. Insure perfect and continuous alignment.



Rock Island No. 1 Corn Planter

Saves Soil, Time, Labor
Over 25 years' experience is back of this planter and the service it renders. In addition to the most accurate drop, it has the most durable and perfect clutch ever invented. Dirt and sand never affect it. These two features alone indicate the splendid efficiency of the No. 1. Let us point out other big advantages. See the Rock Island dealer at the first opportunity.

Write for FREE Booklet
Send a card tonight. Back comes all the interesting, money-saving particulars that have made this planter famous. Don't put off. Write tonight.
Rock Island Plow Company
243A Second Ave., Rock Island, Ill.



"EVERYBODY"

Can Afford a Gasoline Engine With Galloway's New Low Prices

1 1/2 HP
\$27.50

Other Prices in Proportion



You've never before heard of such startling values—I've never offered anything like them and you know full well that no one else has ever come anywhere near my regular prices. But this time I've a startling reason. I want 10 men or more in every township in the country to own and operate a Galloway Engine—I've decided to double my factory capacity by increasing the sales twice and sell two where I formerly sold one—this calls for unusual values—hence, the greatest offer I have ever made. I can save you from \$25 to \$300 on an engine according to the H. P. needed. It doesn't matter what sized engine you want I've got the one to fit your wants and do more work and better work at less actual cost than any other engine in the world. Write at once for full information of the Greatest Offer Ever Made To American Farmers—don't delay but send me your name and address now, before you do another thing. Let me prove to you in cold facts why I can put \$25 to \$300 in your pocket.

WM. GALLOWAY COMPANY
2825 Galloway St., Waterloo, Ia.

No Such Quality in any engine—no matter what price you pay—the Galloway price saves you \$25 to \$300



30 Days FREE Trial

APPLETON QUALITY MANURE SPREADERS



Every Progressive Farmer

is interested in having the best manure spreader. It will pay you to study up spreaders before you buy. The more you study the Appleton Manure Spreader compared to others, the more good points you will find. Send today for Free Catalogue showing nine styles and proving why Appleton Oak Frame Spreaders are the best. The letter herewith speaks volumes—
Portage, Wis., Dec. 1, 1911.

Appleton Mfg. Co., Batavia, Ill.

Gentlemen:—I expect to buy a spreader in the Spring. I like your machine better than any I have ever seen. My nearest neighbor has run an Appleton Spreader for five years and has not paid out five cents for repairs. He has three hundred acres of land and they haul a lot of manure in a year. He has never had more than three horses hitched to it. Some farmers here that have other makes have four horses to pull theirs.

Yours respectfully,

W. J. Koeppe, R. No. 1, Portage, Wis.

APPLETON MFG. COMPANY, 219 Fargo St., Batavia, Ill.

A complete line of machines in stock in your territory.

Double Your Profits on Every Acre of Corn Planted.

You can do this easily. Instead of getting 40 bushels per acre, get 70 or more. No extra work, practically no more expense. Hundreds of farmers now raising bumper crops, making big profit. You can do the same. The secret of it is—Test your seed corn with

Holden's Ideal Seed Corn Tester,

The safest, surest, quickest and best tester on the market. Separates perfectly the weak seed from the strong. Shows exactly which to plant. Holden's Ideal Testers are used by leading Agricultural Colleges and Experiment Stations. Endorsed by leading corn growers everywhere. It's the kind you should set.

Valuable Corn Book Free.

Write for it today. It's full of corn facts that mean money to you. Tells how to test, how to plant, how to cultivate, how to overcome missing hills, barren stalks and bobbins and gives all the latest ideas on corn growing. Address

National Seed Tester Co.,
1127 Walnut St., Des Moines, Iowa.

You run no risk to patronize persons or firms whose advertisements appear in KANSAS FARMER.

150 Shetland Ponies 150

Stallions, Geldings and Mares. All colors and ages. Thirty-four to forty-eight inches high. Call on or address,

C. H. CLARK,

Colony, Kansas

The State Board of Agriculture

Forty-first Annual Meeting of Noted Kansas Society

Inclement weather served to decrease the usual attendance at the annual meeting of the Kansas State Board of Agriculture, though this body was somewhat more favored by the weather man than had been the Kansas Improved Stock Breeders' Association, whose sessions immediately preceded it.

Although a business session is held in the afternoon, the real sessions begin on Wednesday evening of the second week in January. In this meeting the address of welcome was given by Governor Stubbs, in his happiest manner. Attention was called to the great lack of business methods and of co-operation among farmers. All great business enterprises are conducted in the most systematic manner, and farming is a great business. The cost of producing any crop should be known and it is only when this is true that the farmer can know whether he is making anything more than a living.

Representative Robert Stone of Shawnee county paid a high tribute to the Kansas pioneer, whose sons and daughters are now bearing the burdens and feeling the joys of life. Some of the members and delegates of this board have had pioneer experiences and now live to enjoy the pleasures of life on the plains of the Sunflower state, where once they endured the pains. Not the least of these pleasures is to be found in the annual meetings of the State Board of Agriculture, where the accounts of the year are cast up and the tale of the harvest is told.

Time was when a Missourian was not so welcome in Kansas, but George P. Bellows of Maryville, Mo., was given a cordial one when he told the members of the farm life inducements for young men.

With the modern improvements and inventions which are now available to every farmer, life on the farm is as comfortable as life in the city, and far more enjoyable. To the young man who seeks a vocation in life the farm offers one in which the emoluments are quite as ample, the risk is far less and the opportunities for self-improvement, as well as self-enjoyment in the keen, clean pleasures of the out-of-doors are far superior to any calling that can be offered by the city in the same condition in life.

"The character of the machinery which farmers have built for the education of the children on the farms of Kansas and Oklahoma, in comparison with the machinery which the people of the towns have built for the education of town children, is as a hand sickle to a header-binder."

"If Kansas had spent one-tenth of the money which has been spent for the development of your system of higher education in an honest effort to improve the systems of elementary schools beginning at the bottom—in the country—and building upward, the rural schools of Kansas would now be a complete demonstration instead of a pressing problem," said John Fields, editor of the Oklahoma Farm Journal, in his plea for better country schools. He told of the work of a farmer-teacher for the betterment of conditions, and said:

"It is conceivable that a state might make fair progress without any colleges receiving appropriations from the state treasury, but progress in a state without common schools is inconceivable. You may jolly people into going back to the land," but they'll not stay there unless they find or can develop schools just as good as they left in town."

One session was devoted to the problems of co-operation, and this cause was championed by a woman. Mrs. G. G. Burton of Topeka took occasion to point out some much needed reforms in our public school system.

"Seven million dollars a year ought to be sufficient to secure enough service to furnish the state with a few graduates able to use good English, write a legible hand, make figures easily read, and know how to add, subtract and divide rapidly and accurately. Business men everywhere tell us they are not to be found. William Allen White said that it takes our graduates too long to recover, and he should have gone farther and said that a large per cent of them never recover," said Mrs. Burton.

"Farmer societies must insist upon a fairer apportionment of all money raised for public education, and the establishment of consolidated community agricul-

tural schools on an experimental farm furnished with necessary equipment, a modern building for teaching domestic economy and a hall for special social meetings. Let all such schools be branches of our State Agricultural College, see that good roads radiate in every direction and the question of rural uplift is solved. Ample money is raised every year for such schools, and only needs adjustment."

"The Value of Organization to the Farmer," was discussed by Mr. A. Sykes, president of the Corn Belt Meat Producers Association, who said:

"The misconception that lurks in the minds of many of our farmers concerning the value of organization to themselves I believe is largely due to the lack of a proper understanding of the aims and objects of these associations, and a campaign of education must be conducted along this line of making known the benefits to be derived from organization and co-operation. The results attained by these business and labor organizations and combines, although in many instances illegally, should serve as an object lesson to us and cause us to stop and consider whether we can longer afford to go on in the haphazard and independent way of the past, without any definite plan for concentrating our efforts and our strength in the direction that will bring us the greatest results. Had we not better take cognizance of what has been going on around us and organize ourselves to restore to the farmer some of the blessings and privileges that were originally his, but have been purloined from him through the formation of trusts and combines, which have been winked at in the past by many of the law-makers of the land?"

"The fact is that while the farmers have been attending quietly to their own business and caring for their families and their live stock these other industries have stolen a march on them and have organized and combined until they are in a position to force almost any issue they may uphold, to a successful termination. Their representatives infest state Legislatures and the halls of Congress for the express purpose of defeating anti-railroad and anti-trust measures and seeing that no laws are passed which will adversely affect their peculiar interests; they, of course, to be the judges! What a rare thing it is for the farmers to have special representatives in these different law-making bodies to protect and promote their interests! And yet this is just what should be done, and you will never get what is coming to you until you do this."

"The best way to accomplish this is for the farmers to organize, cut out partisan politics and the two by four politician and the standing candidate for office, and nominate and elect good, clean men to these legislative positions who will represent their interests and stand for their rights; then give them all the support and encouragement possible, for they certainly will need it. Certainly no harm can come from an organization formed to protect and promote the farmers' and stockmen's welfare, and no serious objection could be made to such an association."

Prof. Richard B. Price of the State University, stated that the school plants of America is valued at one billion dollars and that of Kansas at 20 millions.

"It is estimated, taking into account the loss of time afternoons and evenings, Saturdays and Sundays, and the long summer months, that the school property of the country is used only about 40 per cent of the available time. This means that there is an annual waste in the United States, through lack of proper development and use of this valuable property, of 30 million dollars, and in Kansas alone of \$600,000. Think of it! A 60 per cent waste in Kansas, amounting to \$50,000 a month. As a matter of fact, these estimates of waste, far from being overdrawn, are too low, since no account is taken of the village and country schools with a school year of seven or eight months."

"A manufacturer who would put up an expensive plant running into hundreds of thousands of dollars, and then operate it for only 40 per cent of the time, would soon have the probate judge sitting on him. Certainly his fixed charges would eat up not only profits but also capital. On the contrary, such a manufacturer crowds his factory along for every available min-

ute in the day or night, for idle time means to him a money loss. He attempts to use his entire plant constantly and at the maximum of its productive efficiency. If one small machine has to remain idle for a few minutes at intervals because it does not receive its material fast enough from another machine, the owner will gear up the entire factory so that all the machines may work all the time at their maximum capacity."

Officers were elected to succeed themselves, as follows:

President, I. L. Diesem, Garden City; Vice President, A. W. Smith, McPherson; Treasurer, J. T. Tredway, LaHarpe; Secretary, F. D. Coburn, Topeka. Thomas M. Potter of Peabody, T. A. Hubbard of Wellington, R. B. Ward of Belleville, George B. Ross of Alden and H. M. Laing of Russell were chosen to succeed themselves as board members. James N. Fike of Colby was elected to take the place of the late ex-Governor George W. Glick of Atchison as a member of the board.

Ground Corn for Dairy Cows.

Answering O. W. F., Mulvane, Kas.: By all means grind the corn fed dairy cows. Present corn prices will not permit feeding whole corn. The loss of grain undigested will more than pay for grinding. We recommend grinding corn and cob. Corn and cob meal lacks little in actual practice of going as far as an equal quantity of corn meal. A sweep mill will grind corn and cob. Every farmer should have a feed mill of some sort.

Who Has Them?

One of our subscribers asks for the address of some one who has New Era cowpeas for sale. His letter follows:

"Being a reader of KANSAS FARMER ever since we came to this state, 11 years ago, and having got much good advice out of it, I take the liberty of asking a favor of you. Do you know of anyone that has the New Era cowpeas for sale? If any of our brother readers of KANSAS FARMER have that kind of cowpeas, will they kindly inform us through the paper, or direct to me by letter.—JOSHUA KESSLER, El Dorado, Kan.

Do Not Forget to Paint.

Any man can do an average job of painting, and can thereby not only improve the appearance of his place, but can add greatly to the durability of the buildings.

The average farmer seems to think that paint is used solely for ornament, and as he is, of all men, most keenly practical, he eschews what he regards as an unprofitable luxury. It is perhaps the rule rather than the exception in some sections to see houses and agricultural implements sadly in need of repaint.

Of course paint does improve the appearance of property, but it is far more useful as a protector rather than an ornament. The expenditure of a small amount of money and time in painting a valuable piece of farm machinery or a building will add greatly to the length of its life. Another useful object accomplished by painting is the improved sanitary conditions of buildings and out-houses. The cost of such work is small, the necessary equipment not expensive, and with proper care will last a long time.

Preparing Corn Ground and Burning Stalks.

Answering Jesse A. Smith, Hamlin, Kan.: Your letter is not specific. We must guess at the condition of your corn ground. If you have "split" the ground this fall and lister rows are too wide for planter and two-row cultivator, we see no remedy except to "split" the ridges with lister early this spring and then cross list, getting the rows the required distance apart. If you have not "split," as above assumed, but the rows of corn stalks are too far apart to permit "splitting" the middles without great inconvenience, then cross list this spring. Still if you disc and cross disc before listing, as many good corn growers do, we think the corn ridges would be worked down sufficiently to permit listing parallel with last year's corn rows.

We do not favor burning stalks. Cut the stalks with a cutter, disc and cross disc before listing, and get all the stalks possible into the soil. They make humus in the soil, and our old farm land is short of humus, the quality in soil which makes it loose, absorbs and holds moisture and does other advantageous things.

SOOT in pipes and chimney makes a house a FIRE TRAP. For safety, try 20c pkg. from Soot Destroyer Co., Shenandoah, Ia.

Look OUT

For Worms This Month

Look OUT



Read These Four Letters

I have been in the hog business for 30 years and have tried every known remedy for hogs, but have never found anything equal to your Sal-Vet. It certainly does the work and is easy to feed. I feed it to little pigs, boars, pregnant sows and find it O. K. I will never be without Sal-Vet.

C. F. MARSHALL & SON,
Per G. F. M. Monroe, Ia.

"I had a lot of sick hogs and I lost five of them. I began feeding them Sal-Vet, my losses stopped and the hogs soon got into a fine, healthy condition."

V. P. UNDERWOOD,
R. D. No. 1, Roachdale, Ind.

While I cannot say positively Sal-Vet kept my hogs from having Cholera, I had no such sickness while my neighbors almost without exception lost hogs from Cholera. I certainly have great faith in Sal-Vet and it is all and more than you claim for it.

J. C. CONOVER,
Chrisman, Ill.

I used your Sal-Vet regularly while feeding a bunch of fattening hogs and can say it is just the article. It made my hogs double their weight in 50 days. It is a great conditioner and worm destroyer.

E. E. SHULL,
LaCynge, Kansas.

We have hundreds more like these

I'll Stop Your Worm Losses I'll Prove It Before You Pay

Don't let worms breed contagious diseases among your hogs this year. Don't let them kill off the young pigs and rob you of your season's profits. You can prevent it if you will just take "a stitch in time." Now is the time when worms begin to get in their deadly work. Now they are breeding, multiplying by the millions in the stomach and intestines, and if you don't get the best of them, they will surely get the best of you. Let me show you how. I'll get rid of stomach and free intestinal worms in your hogs, sheep, horses and cattle and prove it to your satisfaction (not mine) before you pay me a cent. I'll do it with

SAL-VET

The Great Worm Destroyer and Conditioner

I've done it for thousands and in addition they write me they never had stock thrive better, look better and bring them such profitable returns. Here is my offer to you.

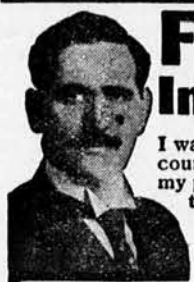
Send No Money—Just the Coupon

Simply fill in the coupon, tell me how many head of hogs, sheep, horses and cattle you have. I will then ship you enough Sal-Vet to last them 60 days. You pay the small freight charge when it arrives—put it where all your stock can get free access to it—and they will doctor themselves. They eat it as they do salt—just as they need it, and at the end of the 60 days if you don't feel satisfied, write me and I'll cancel the charge. I take your word as final—I let you act as judge of its merit—I put everything up to you. How can you risk loss—how can you let your stock drag along when they should be thriving, growing into profit when such a fair, open offer like this is put at your disposal? You have all to gain—nothing to risk. Fill out and mail the coupon now. Don't put it off—lest you forget. Read the letters above.

Sidney R. Fell, Pres.—The S. R. FEIL CO.—Dept. K.F. Cleveland, Ohio

Prices: 40 lbs., \$2.25; 100 lbs., \$5.00; 200 lbs., \$9.00; 300 lbs., \$13.00; 500 lbs., \$21.12

Sal-Vet always comes in original "Trade-Marked" Packages. Never sold loose in bulk or by the pound. Look for the "Sal-Vet" trade-mark—it is your protection against imitations and substitutes

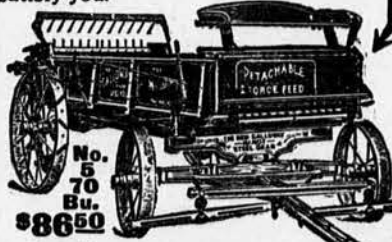


FIRST TEN MEN OR MORE In Every Township—Answer!

I want to place 10 Manure Spreaders or more in every township in the country in the next few months. And that means that I have to cut my prices to the bone to do it! So the first ten men or more who answer this from each township will receive a startling offer on the best Spreader in the world—Galloway's New No. 5, with Mandt's New Gear. A gift of as good as \$50 to these men—be one of them! Why hand over \$50 extra to a dealer or agent when you can buy direct from Galloway? Keep the money in your pocket and get a better machine. My 45-55 bushel Spreader, \$39.50—complete with trucks, \$44.75—sent on 80 to 90 days' free trial—money back if it doesn't satisfy you.

Don't Wait! Get quick action on this wonderful offer. Be one of the first from your township. I have the world beaten on Manure Spreaders—Mandt's famous new gear and eleven special patented features that cost you not one penny extra. My prices to you are less than your dealer can buy Spreaders for spot cash in car load lots! Send your name and address on postal today, and my big offer will go to you at once.

WILLIAM GALLOWAY, President
William Galloway Company, 389AB Galloway Station,
Waterloo, Iowa



No. 5 70 Bu. \$86.50 F. O. B. Waterloo With Mandt's New Gear

A Better Stove at a Lower Price



400 styles—30 days' free trial and 360 days' approval—choose your style—pay factory price—no more. If it's not the biggest stove value you ever saw, send it back, we pay freight both ways—you won't risk a penny.

You can't make a mistake by paying factory price. 200,000 in use today. It's the quality stove, the KALAMAZOO.

Factory Price Book

Factory prices on cook stoves, ranges, heating stoves, gas stoves and furnaces. Every stove shipped same day order is received. Our factory prices will open your eyes on the real cost of a stove. Send for this Free Factory Price Book No. 189 today.

KALAMAZOO STOVE CO., Mrs. Kalamazoo, Mich.

Save \$5 to \$40
Cash or Credit

A Kalamazoo Direct to You And Gas Stoves Too

LIGHT UP!

You can transform any kerosene (coal oil) lamp or lantern into dazzling brilliancy with our wonderful **Bright Light Burner**. 50 candle power invisible and **unbreakable Steel Mantle**. Brighter than electricity, better than gas or gasoline, and **perfectly safe**. No generating—simply light like any kerosene lamp. Nothing to get out of order. Positively will not smoke or flicker.

AGENTS WANTED EVERYWHERE. Sells like wildfire. An opportunity of a life time, work all or spare time. Experience unnecessary. Make big money—be independent. Write today. Act quick—territory going fast. Complete sample, post-paid, 30c, 4 for \$1.00. Money back if not satisfactory.

BRIGHT LIGHT CO., Dept. 59 Grand Rapids, Mich.



A Good Windbreak Will Add \$1,000 to the Value of an Average Farm

Haven't you noticed that the farms and homes equipped with windbreaks are the ones that sell at best prices? All over the West, where it gets so cold in winter, where hot winds dry out soil in summer, where stock has to be left out a good deal, it's the shelter-belt farms that are the prosperous ones.

Evergreens Are a Good Investment

Properly-placed evergreen shelter-belts make barns warmer, and shelter stock in yards and on the range. In fields and orchards they prevent half the summer evaporation, and guard fruit and other crops from destructive winds and spring frosts. They increase the selling value of a farm all out of proportion to their cost.

Learn How to Build Windbreaks

Get our 56-page Planter's Guide for 1912. We are evergreen specialists, and we grow more evergreens than any other firm in the world—as well as shade trees, shrubs, and hardy fruit trees. Hill's Book and List of 50 Great Bargains are free to intending planters. Don't wait till spring. SEND NOW for a copy.

D. HILL NURSERY CO., Inc.
Evergreen Specialists
Sabina St. DUNDEE, ILLINOIS



25c. Value at Stores For Only 10c.

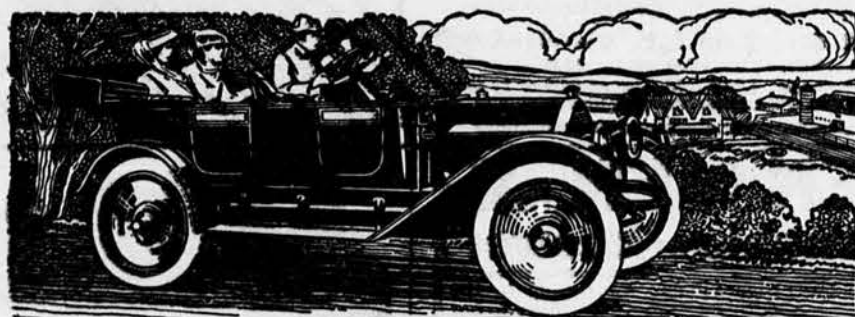
To make known to you our Hand Water Colored Pictures (many frame them) in Post Card form, we will send you for 10c a most beautiful scene, and include 9 high art cards free. Most elite card made. Solicitors wanted.

SERVICE BUREAU, La Grange, Ill.

On the Farm
Old Dutch Cream Separator

is of greatest value. Besides many household uses, it is just the thing for cleaning and scouring milk pails, the cream separator, the churn and everything connected with the dairy. Makes everything clean, sweet, sanitary.

Mary uses and full directions on large Sifter Separator.

\$1600 Great Western \$1750
Self-Starting FORTY Self-Starting
Good Enough for Uncle Sam—Good Enough for Anybody

That is the way we feel about the Great Western. The U. S. Government chose this car after most critical examination, for the hard, exacting work of the Indian service on the western hills and plains.

It's wonderful 4-cylinder engine, accurate to 1-1000 part of an inch, develops and utilizes the full-rated H. P., and takes this beautiful car without effort over the toughest roads and up the steepest hills.

The marvelous simplicity, roominess, luxurious seats, magnificent finish and beautiful design, the practical self-starter device, the low cost of up-keep, the great economy of fuel and oil, make the Great Western, above all, the right car for the farmer's use. 22 miles on one gallon of gasoline, and 60 miles on one gallon of oil is common.

The Great Western is a sturdy car, and has won scores of tests for speed, endurance and hill climbing. Nothing has been slighted to make this car a stylish and beautiful one, either. They stop to look at it when you pass by in a

Great Western, for it is one of the most stunning cars of the year. You know what you get in a Great Western, for it is built, sold and guaranteed in a business-like way. The farmer knows good machinery, and it will only take a demonstration of the Great Western to convince him that all we claim for it is true, and all that he expects in a car is there—and more.

Just look over this list of features:—Automatic engine-starter; beautiful straight-line body; detachable fender-doors; Solar electric headlights; demountable rims; selective type transmission; gasoline gauge; Typhoon signal horn; 36 x 4 tires; robe and foot rails; ventilated body; luxurious, high-backed seats deeply upholstered in hand-buffed leather; rear compartment under seat accessible from outside; piano finish by 18 special processes; and scores of other features.

Write us today for copy of 1912 Art Book. Gives you a splendid idea from its descriptions and beautiful illustrations of the details of construction and equipment.

We will also put your name on our list for free subscription to "The Tattler," our monthly magazine full of automobile wisdom and hints.

Great Western Automobile Company, Dept. W Peru, Indiana

MENTION KANSAS FARMER WHEN YOU WRITE.

SEEDS of Quality

Would you like to plant seeds from a firm that in 26 years has built up an enormous business solely upon the reliability and quality of its products? Send a postal card request for catalogue of ACORN BRAND SEEDS before buying next season's supply.

Ross Brothers Seed House, 317 E. Douglas, Wichita, Kan.

NAYLOR "PULVERATOR"
Makes Perfect Seed Beds
Saves all work of harrowing. Leaves ground ready for planter or drill. All steel. Easily operated. Light draft. Sold direct from factory to farm. Learn all about this remarkable implement. Send today for illustrated booklet.
Naylor Mfg. Co., Box 312 Plano, Ill.



Improved Stock Breeders' Association

Continued From Page Two

how his neighboring breeders had combined for their mutual good and the success which they had attained in the improvement of their stock and the general welfare of their community.

The climax of the program was reached in the last evening address, which was given by President H. J. Waters of the Agricultural College. President Waters is the head of the largest agricultural college in the world, and in his knowledge of live stock he has no superior in America. He chose for his subject "What is the Matter with Corn as the Main Ration for Young Animals?" Because of the earnest desire to hear President Waters which had been expressed by the Kansas Association of Real Estate Dealers, his address was given before both associations. The length of the program forced the president to shorten his address somewhat, and the time desired for discussion was eliminated. This was one of the strongest papers, by one of the highest authorities in America, and it is planned to give this paper the widest possible publicity in order that everyone may receive benefit from it.

At the business session, resolutions were adopted endorsing the practice on the part of the county fair officials in employing live stock judges from the Agricultural College as being thoroughly qualified, unbiased by breed relations, and beyond the objections sometimes raised to judges who are themselves breeders. Endorsing the action of the State Poultry Association in their efforts to secure a renewal of the appropriation of \$1,000 per year for the benefit of their organization. Endorsing Superintendent J. H. Miller of the Extension Department of the Agricultural College in his widespread campaign for the betterment of the corn growers of Kansas.

A vote of thanks was extended to Col. J. F. True and the members of the committee on the Harris Memorial, of which Colonel True was chairman, and to Secretary F. D. Coburn of the State Board of Agriculture, who acted as treasurer of the committee, for their very efficient work in raising the funds and erecting a bronze memorial bust of Col. W. A. Harris on the grounds of the State Agricultural College.

A committee was appointed to raise a fund for the painting of an oil portrait of ex-Governor Glick, which shall be placed in the Agricultural College.

A committee consisting of George B. Ross of Alden, George W. Berry of Topeka, and Secretary I. D. Graham of this Association, Prof. P. Crabtree of Kansas State Agricultural College, and H. L. Cook, secretary of the Kansas State Fair of Topeka, was appointed for the purpose of unifying live stock classifications for the county fairs of Kansas.

A standing committee on membership consisting of G. G. Burton, A. W. Ferguson and O. P. Updegraff, all of Topeka, and all field men of live stock papers who travel in Kansas, was appointed as a preliminary to a vigorous campaign.

The committee on necrology, consisting of Senator Thomas Potter, Peabody; Col. J. F. True, Perry, and John A. Peck, Tecumseh, made the following report, a copy of which was sent to each of the bereaved families:

"As we look back over the past year we are reminded that three of our number have passed to the Great Beyond, and as we miss their familiar faces, pleasant smiles and friendly grasp at this meeting, we are forcibly reminded

of our great loss in their wise counsel and zealous labors to build up this society.

"Charles E. Westbrook came to Kansas from Wisconsin in the early seventies, and, while possibly a good horse was his favorite, yet he took great delight in all classes of domestic animals, and there was scarcely a time in which his fine farm near Peabody did not have in addition to some of the best horses in the country, a choice lot of sheep, hogs and cattle. But Mr. Westbrook's love for live stock did not find its full fruition in the live stock alone. He raised an excellent family of nine children and had a zeal for their welfare seldom surpassed, and lived to see them all well located, by his aid, in happy homes, and most of them upon farms. He felt and met the obligations of citizenship, taking a great interest in the policies of the government, local, state and national. Few men did more to encourage the breeding of all kinds of good live stock than Charles Westbrook, as he was familiarly called. He was a kind friend, a good neighbor, and his memory will long remain green with them who knew him best. He passed away on May 11 last.

"And what shall we say of another of our most faithful, cultured and lovable of men? A great citizen, capable of carrying the people of Kansas with him in the face of a very large political majority against him; ever ready with speech and pen on this floor, with a wisdom which we all admired, and forcefulness and grasp of his subject that carried conviction to all who heard. We feel that the loss of Governor Glick to this Association is irreparable, and we can pay our best tribute to his memory by imitating his noble life and example.

"And R. L. Lee, for many years a resident of Shawnee County, the founder of the noted Prairie Dell Farm, the home of Robert McGregor, the monarch of the home stretch, of the great Jackdaw and Shamrock. He produced many good horses and made no little reputation, local and national, by his operations. He can be commended because of his industry and steadfastness of purpose in his chosen lines."

On Wednesday evening the members of the Improved Stock Breeders' Association and of the State Board of Agriculture were entertained at a banquet, given in the Commercial building by the KANSAS FARMER Company. This is the sixth annual banquet given by this company to the breeders and farmers, and it has become a fixture which is most keenly enjoyed by all. Senator Thomas Potter of Peabody proved himself to be a most capable toastmaster, and after the viands prepared by one of Topeka's most capable caterers had been discussed and some of the famous McAfee sweet cider enjoyed, the toastmaster called upon various members, who responded in their most happy manner, although each protested that he had had no time in which to prepare his extemporaneous remarks. Toasts were responded to by Senator George B. Ross of Alden, Secretary A. L. Sponsler of the State Fair at Hutchinson, Hon. W. A. S. Bird and Mr. G. C. Burton of Topeka, Prof. G. C. Wheeler of Kansas State Agricultural College, Mr. E. E. Hazen of Hiawatha, and Hon. T. A. Hubbard of Wellington.

The officers of the Kansas Improved Stock Breeders' Association for the ensuing year are as follows: President, George B. Ross, Alden; vice-president, H. W. McAfee, Topeka; secretary-treasurer, I. D. Graham, Topeka.

Milo And Spanish Peanuts

Prof. Cottrell, industrial commissioner average enough corn to produce 400 pounds of pork to the acre.

The Spanish peanut is a legume and, like alfalfa, enriches the land on which it is grown. The nuts contain 40 per cent of oil and more than that of protein, or muscle building food. The peanut hay is practically equal to alfalfa for roughage, yields from one-half to one ton to the acre, besides a heavy yield of nuts, and sells at a price within 50 cents a ton of the best alfalfa.

Prof. Cottrell cites an instance in which hogs were turned into the peanut field to gather the crop of tops and nuts, and the net result was 1,023 pounds of pork to the acre. He believes that, with the more general introduction of these two crops, the southwest is destined to become one of the greatest pork and beef finishing districts in the entire United States.

of the Rock Island, is thoroughly posted on the dry farm crops for the southwest. He asserts that ten pounds of milo have the same food value for all purposes as nine pounds of corn and that the average yield of milo for seven years in the Panhandle country has been 30 bushels a year under dry-farming methods. That gives a food equivalent of 27 bushels of corn, which cannot, in many instances, be raised for grain at all. Milo will become the standard feed crop of the entire southwest, says Prof. Cottrell, and, combined with peanut hay, it makes a perfectly balanced ration for fattening both beef and pork for market. One acre of milo, he states, will produce an average of 300 pounds of pork each year, while the best states in the corn belt will only



WRITE for my free book that shows how to do twice the work with half the effort—and in perfect comfort. Everywhere men see other men doing only half the work they should be doing—laid up with sickness, or struggling through a short day of unsatisfactory work. And they see what causes it. Lameness, rheumatism, colds, broken down feet. What did it? **Wet feet, abused feet.** Working in mud and water on hard roads in soaking, unshaped shoes. Every day on every side men are ruining their feet, ruining their prospects—getting old and disabled on account of their feet. I can keep your feet young. I can keep your feet warm and dry, free from corns, bunions, callouses. I can build up broken down feet. I can prevent colds from wet or damp feet and doctors' bills.

Greater Comfort Greater Strength Greater Wear

Shoes for all kinds of work. On farms and ranches, in stables, quarries, mines, in lumber camps, on railroads, in dairies, green-houses and smelters—building roads and bridges—surveying—everywhere for outdoor work.

Now I want to tell you about my greatest shoe triumph, my new 1912 model—the **Steel King**. My new model is a marvel of comfort. See that fine arch. See that swing at the toe. That means spring—easy-walking—perfect fit. Look at those rivets. That means double wear. All the wear on the rivets—not on the sole. When the first rivets wear down, put in new rivets—50 rivets cost 30 cents. Inside the sole is a scientific inner sole to take all the pressure of the rivets. Above this sole is a second inner sole of springy hair cushion. These two inner soles take all the jar of rough or rocky roads. Your feet can't rub or chafe or bruise. The soles are fastened to soft, pliable, best quality, water-proof uppers by an absolutely water-tight connection. **I Can Fit You Perfectly.** My book—"The Sole of Steel" gives all the sizes and prices. The new **Steel King** is the cheapest—most saving, longest lasting shoe you can buy. Nothing can be made to touch it for comfort—for work.

No More Wet, Cold, Aching Feet Corrects All Feet Ailments

Before I got the **Steel Shoes** I was obliged to rest about half the time and when working was compelled to sit down much of the time. Now I work all day with little trouble. I can work in the mud and water all day yet my feet are dry. The ground here is full of broken rock and is hard on leather shoes. The **Steel Shoes** are just the thing for such ground and for walking on side hills. My feet were ruined by wearing shoes with no support for the center of the foot. Your **Steel Shoes** are the best thing in the shoe line for farm work and grading roads. They are worth all you can possibly say of them."

ROBERT BRAND, Zenia, California.

My new 1912 **Steel King** will give greater satisfaction than any shoe I've ever sold. Everyone who is now wearing my shoes and needs a new pair will be delighted with this 1912 model. The fine arch—springy toe—all the wear on the sole rivets—the inner sole—it's perfection.

I am known to millions as **The Steel Shoe Man**. The man who has saved thousands of jobs, thousands of doctors' bills—saved thousands of failures. One million men and boys are wearing my famous **Steel**

I just want you to read this one letter—it's one of thousands. I have more letters like this than I could ever get space to publish. "Dear Mr. Ruthstein: I need no shoes at present but will send an order later on. I have worn no others but the **Steel Shoes** since I got them. I don't know what I would do without them. My feet are very much crippled by rheumatism and callouses on the ball of my feet.

Examination FREE

Write at once for my free book and free examination offer. Send postal or coupon now. Don't let your feet give out. Don't let your foot troubles start. My new **Steel King** will make your feet 10 years younger. Let me send you my book—"The Sole of Steel," giving sizes and prices. It shows how to enjoy foot comfort such as you have never known before. Shows how to save up to \$20.00 a year, too, on shoe bills. Send your name and address today. Every pair of **Steel Shoes** is sold on **Free Examination**. Use the free book coupon below—or mail a post card.

N. M. RUTHSTEIN, The Steel Shoe Man

220-A 7th Street, Racine, Wisconsin

Canada Factory: Toronto, Canada

Gt. Britain Factory: Northampton, Eng.

Save \$20 a Year My Free Book Tells How.

The **Steel King**

Ruthstein's 1912 Wonder-Shoe

comes to the rescue of your poor suffering feet. Never in the history of the shoe business has there been such a

Miracle of Shoe Comfort

Write a
Postal
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Now



Send Today for This Free Book!

N. M. RUTHSTEIN, The Steel Shoe Man
220-A Seventh Street, Racine, Wis.

Send me your **Free Book** on your celebrated **Steel Shoes** showing the new 1912 **Steel King**—no obligation to me.

Name

Address

Diamond

TIRES

Country roads are much harder on automobile tires than are city streets. Yet most tires are made as if there were no such things as country roads.

For the farmer's automobile the best tire, the tire that gives greatest service and greatest mileage, and the tire that has fewest and least severe injuries, is the Diamond Tire.

Buying an automobile tire is like buying seed. If you expect a good crop you must plant good seed. You wouldn't buy seed on a price basis. Nor should you buy tires on a price basis if you want a big crop of mileage.

Diamond Tires have been made for fourteen years. They were the first automobile tires made in America and they have been first in mileage and first in the number sold every year since.

The Diamond policy has always been to build as good a tire as could possibly be built. Diamond Tires cost slightly more than some tires, but the extra cost that you pay for Diamond Tires is small compared to the extra value and extra mileage and service that you get out of them.

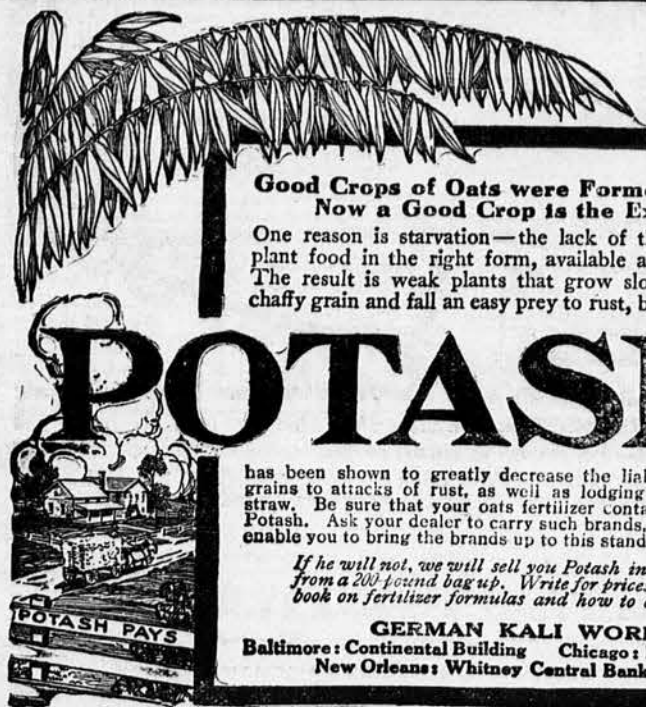
If you are about to buy a new car insist that it be equipped with Diamond Tires before you place the order. The car will cost no more with Diamonds than with cheap tires.

There are Diamond dealers everywhere—there's one near you. And FIFTY-FOUR Diamond Service Stations that take care of Diamond tire users. If you don't know who is your nearest Diamond dealer, write

The Diamond Rubber Company

AKRON, OHIO

MADE TO FIT EVERY TYPE AND STYLE OF RIM



Good Crops of Oats were Formerly the Rule; Now a Good Crop is the Exception.

One reason is starvation—the lack of the right kinds of plant food in the right form, available at the right time. The result is weak plants that grow slowly, yield light, chaffy grain and fall an easy prey to rust, blight and insects.

POTASH

has been shown to greatly decrease the liability of the small grains to attacks of rust, as well as lodging because of weak straw. Be sure that your oats fertilizer contains 6 to 8 per cent, Potash. Ask your dealer to carry such brands, or Potash Salts, to enable you to bring the brands up to this standard.

If he will not, we will sell you Potash in any amount from a 200-pound bag up. Write for prices and for free book on fertilizer formulas and how to adjust them.

GERMAN KALI WORKS
 Baltimore: Continental Building Chicago: Monadnock Block
 New Orleans: Whitney Central Bank Building

THE FARM



I have received the letter below and cannot in this week's KANSAS FARMER write all I would like to say to this young man. If he will watch succeeding issues he will find other articles which will fit his case. I desire readers of KANSAS FARMER to write their views—not alone for the young man making the inquiry, but because there are hundreds of others in this state as well as elsewhere, who are "up in the air," to use a bit of slang, on this same matter. The columns of KANSAS FARMER could do no better work in the next ten years—or in my lifetime—than to show the young men of Kansas that they can make a living, and more, too, on a 40-acre farm. The young man in question is by no means helpless, but he does not want to teach school because he, nor no other ambitious young fellow, can see comfort and a competency ahead, living and rearing a family in town on a salary of \$75 per month. It is not what a man makes that counts, but what he saves—and he can't save anything worth while on that salary in a small town and live and dress his family in a way a teacher should and must do. Let me hear from KANSAS FARMER readers. It is worth your while to express your views. If you have given some worthy young fellow an idea you will have done a deed you will never regret. The letter follows:

I am a young married man and have been raised on a farm; taught school a few years and by farming a little with teaching, have succeeded in nearly paying for a "forty," which being unimproved and too small to improve profitably, I sold this year at a good profit.

I haven't enough to buy a farm and thought it would be better to rent. But there are no farms here or near here to rent now that will pay any profit. They are worn out. Also, cannot rent any for more than one year. I believe the fault does not lie in me at all, for I'm well known here and can give best of references as a farmer. I have some stock and money to buy more; but what am I to do?

I can make \$75 a month teaching. That work is not my choice. Farming is. Would it not pay to go back to it? What good is the "back to the farm" cry going to do for the young men of Kansas? There is no opportunity to go back or even stay. There are ten neighbor boys living near me here with no prospect ahead but as a "hired man." No wonder they lose heart, and despair of ever owning a farm. Hence our brightest young men are going to towns and cities.

The fault can be traced back to poor land and landlords. But, the landlord is doing all that can be expected of him. I'm interested in all the young men and boys of Kansas, but the vital point to me now is: What opportunity is there for me with a \$2,500 start of the most of them?

I am sorry the young man sold his "forty." I do not know what kind of land it was, but I know something of the land surrounding the town from which he writes. I know that it must be a very poor forty on which a strong, ambitious young fellow cannot make a living. If the land was worn out, it could have been built up by a proper cropping system and a dairy herd. Besides, I suspect that the fellow who bought it figures that he will make that land pay, and our subscriber could have done that as well as the other fellow. By the way, is it not a sad state of affairs when land in the corn belt of Kansas, almost within the show of the state house dome, is worn out to the point that it is sold because it is unproductive? The "forty" was in the best section of Kansas—that section which is blessed with more rainfall by considerable than the state as a whole. It is in the red clover and corn growing section and not far from the champion corn grower of Kansas. Under these circumstances, if the land was tillable, a thing I assume, the chances for successful farming were much better than on hundreds of quarter sections in this state. The land was sold at a price to

make our subscriber some money, but he will have the same advance to pay on land in other sections and I know that in proportion to the producing ability of the land in his neighborhood, land in that section is the cheapest to buy in Kansas at this time. Let me say here, that before any reader of KANSAS FARMER sells his present farm when an attractive price is offered, that he look around and locate his new farm and price before he sells the old. That is a good policy anywhere and at any time.

I would advise our subscriber to get to farming just as soon as he can. With the \$2,500 or more that he has he will buy a carefully selected farm outfit of implements and stock. But before doing this, find a farm he can rent—one that he can rent year after year if he proves himself a worthy and deserving tenant—and by that I mean a tenant who farms well and makes his landlord some money. While he is making some money for the landowner he will be making money for himself. Good farming tenants are few and far between and that alone is responsible for the landlord renting only a year at a time. Rent from a farmer who is renting his farm each year and exact a promise that if you farm well the first year you can have the farm again—probably on a term lease. You do not need a contract to this effect. Do a good job of farming—divide fairly with your landlord, take care of his farm buildings, haul out all the manure made during your term, keep down the weeds—and you will get the farm again if for rent.

Find a farm, find your man, and buy your implements and stock to fit the farm. In making the purchase, buy three work horses—buy mares, strong, which can do the farm work as cheaply as possible. Buy a half dozen brood sows, a half dozen milch cows and a few dozen chickens and what implements you will require, and go at it. It is not unreasonable to assume that at the end of the year you will have two or three mule colts, a half dozen calves and 25 to 30 hogs to eat your corn. The chickens and the cows—if you have selected cows wisely and have bought better than the average at higher than average prices—will pay the grocery bills and provide some ready cash besides. This is my idea of the beginning of the start. I know men who are making a good go of it on 40 acres.

Now whether there are more or less brood sows needed or more or less cows, will depend upon the farm rented. That is the reason I say to locate the farm first. The equipment and live stock will depend on the farm—wholly. Locate, if possible, a farm with some grass—either wild or tame—and if I was single-handed I would not want a farm larger than 80 acres unless there was considerable grass and I could buy live-stock sufficient to consume that grass. An 80 acre farm with 20 acres of tame grass would be about the thing, in my judgment. The balance of tillable land will give one man all the work he wants to do at cropping. The tame grass will furnish pasture enough for cows and calves and a hog lot. The 60 acres I would farm to corn and oats—5 acres of oats. If I should find this kind of a layout the number of brood sows should be increased, because sufficient pigs are wanted to consume your share of the corn. You should not sell an ear of corn. Rent the best corn land you can. Farm corn because you can farm it with less investment for machinery than any other crop. Do not buy a lot of harvesting machinery.

You should include in the farm equipment a 12x20 stave silo of about 40 tons capacity. This will feed 12 animals silage for 200 days. This will keep the cows milking and the calves growing and will be the cheapest and best feed you can get. Should you have to leave the farm you can move this silo. If you do not have to leave the farm you can continue to own it. You might just as well have the silo, because

if you feed a half dozen cows for milk in any other way you will be losing the price of or paying for a silo every year anyway. Four acres of corn grown on good corn land will fill a silo of this size and the silo fixes the feed question.

Your cows should be fresh in the fall and you should increase the cow stock just as soon as possible—buy more in the beginning if the money you have will go far enough. I say fall fresh cows because you will during the winter have time to feed and care for these cows and crowd them to their limit. Prepare to make the pullets do a good winter business. Have some fall litters of pigs, too. Aim to have plenty of winter chores. Time is your stock in trade and you have no good reason to expect to spend two or three winter months without making them count, and it pays to do chores. The more chores there are on a farm the more money made.

With \$2500 or more money in my pocket with which to make the start—and with a wife who liked to farm—I would not feel discouraged, but rather high in spirit. Along these general lines, I would make it win, and so will you. Success means work—and it means effective work. Learn to do things along the line I write each week in this paper. For instance, the seed corn articles in KANSAS FARMER will be worth \$200 to \$300 to you in this first year's work if you will do what they teach. You can buy pure-bred seed corn and grow it well and next fall if you grow a corn crop can sell from 10 to 15 bushels of selected pure-bred seed per acre at four to five times the market price of corn. That is only one thing along the line of better and higher farming.

During the first year I think you should pay crop rent—often crop rent is more expensive than cash rent—but take a bigger chance. I would rent on crop share until I got my bearings. Later I would rent for cash only. I would rent in my home community. You know better the farming methods employed, the crops adapted to the soil, etc. You will have to give prevailing share of crop; when you get to renting for cash you can dictate your own terms. You should rent until you can afford to buy without getting too deeply into debt. If you buy now you will have nothing left to buy your farm equipment, or buying equipment, will owe a large sum on your farm. You will be spread too thin, as the boys say.

You have no reason to be discouraged in achieving your ambition to own a farm. Thousands of farms are smaller than the "forty" you sold, and their occupants are prosperous and happy. When you get ready to buy a farm, look around and have the money in your pocket—all made from farming rented land, and you will have your live stock and equipment besides. A farmer rented my father's half section farm, cash rent, for a period of five years. He owned his equipment and live stock. One-half of the farm was prairie grass, so he could not farm more than 160 acres. At the end of five years he bought a half section in Greenwood county, Kansas, paying \$8,000 for it, and moved to it more live stock than he had when he first rented my father's land. The money was all made renting. The renter had lost his own farm five years before by going another man's security. But he did not quit. The next renter made almost as much money on a five years' term—but he quit farming and bought a one-horse creamery, and today he's broke and would be glad to teach school eight months of the year for \$75 a month. But he can't teach school and can't begin farming again because he can't sell his creamery.

I would like to hear from KANSAS FARMER readers on this question. It has a lot of different angles and I can't write all there is to say about it to-night.—T. A. BORMAN.

Wants to Know About Ground Phosphate Rock.

Our subscriber, G. Schmoker, Earlton, Kan., wants readers of KANSAS FARMER to give him through the paper all the information they can regarding the use of ground phosphate rock. This paper is ready to receive and print such letters. Mr. Schmoker says he has read KANSAS FARMER for more than 20 years.

Feeding Cotton and Linseed Meal.

Answering F. C. M., Ogden, Kan., who says he would have to borrow KANSAS FARMER from his neighbors if he was to

POWER For the Farm

CUT OUT THE HARD WORK



GET A FARM CUSHMAN

Let the Farm Cushman cut out your hard work. It will pump the water, saw the wood, grind the feed, shell the corn, clean the grain, spray the trees, make the cider, churn the butter, separate the cream, wash the clothes, run the electric lighting outfit and save a horse on the binder. It solves the labor problem.

The All-Purpose Farm Engine Saved This Man's Crop

E. O. Gregg, Havelock, Neb.: "I have been using your all-purpose engine on my 8 foot binder the last two seasons. It works excellently. The average cost per day is about 50 cents, and I have been cutting about 15 to 25 acres per day. I would certainly recommend it as a horse-flesh saver, and without the engine I could not have saved my crop last year when it was so wet. It is the best all-round engine for any farmer to have."

Never Saw Its Equal

R. A. Burns, Geneva, Neb.: "I have never seen the equal of the 4 H. P. 4-cycle Farm Cushman for smooth, steady power and noiseless operation and I have used several other makes." Mr. Burns is using the Cushman for pumping, spraying, grinding, sawing, etc. The Farm Cushman is the engine for all power work on the farm.

The Light Weight Wonder

H. E. Warner, Bunkersville, Kan.: "The 4 H. P. Farm Cushman is a lightweight wonder for steady speed and power. He grinds nearly 40 bushels of corn an hour with it. He returned an unsatisfactory 2-cycle engine to another company and bought the Farm Cushman."

Power For Women's Work

Samuel Stokes, Courtland, Minn.: "The Farm Cushman saves my wife 52 backaches a year on washday alone. It also does the churning, pumping, grinding and shelling. I shelled over 1,000 bushels of corn last fall with the powerful little engine. It saved me an extra team last harvest on the binder. I could not afford to be without the Farm Cushman."

Do you not feel the need on your farm of just the kind of help these people are getting from this powerful little engine? Their work is made easier than yours. They can do more of it. They can do it cheaper. They are enlarging their farm operations. It is making their farms worth more money. They have cut out the hard work.

The Engine For All Purposes

The Farm Cushman is a 4-cycle engine of 4 horse power rating, but develops 5 h. p. easily. It is not a one-purpose engine, but is designed and built specially for all power work on the farm, whatever and wherever the work may be. It is the original binder engine. Like automobile and aeroplane engines, it secures greatest power with least possible weight. It consumes gasoline according to the work it is doing by means of a special automatic throttle governor. If the "load" is light, the fuel consumed is small. At any work up to its capacity of over five actual horse power, the cost for gasoline is less than one cent per hour for each horse power used. Runs at any speed—easily changed to fit any job.

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right flue is an air heating jacket having its upper opening near the top of brood chamber. Pure, outside air is taken in and heated by the time it reaches top—thereby pouring out in the chamber a continual volume of mildly heated pure air. You can't afford to take chances with the old-style, lamp-on-the-side brooders. Get my successful

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Built With Same Heating System As My Famous X-RAY INCUBATOR

—and raise every chick worth raising. Get the one that's easiest to clean, best ventilated—and regulated by an automatic trip. You don't have to touch regulator on my X-Ray Brooder. Proper heat must be kept all the time if you want the biggest results. Overheating is just as bad as under heating. In my thoroughly guaranteed X-Ray Brooder all these things are taken care of. The big

Lamp Holds 4 to 8 Quarts of Oil—Only Has to Be Filled Once Every Two Weeks!

You don't have to fill my X-Ray Brooder's lamp every day as you do with old-style machines. There's enough oil in one filling to last 2 to 3 weeks. Don't have to worry about chicks getting cold. Four windows around sides of my X-Ray Brooder give plenty of light. You

can see chicks at any time. Front compartment or exercising room is fully as large as the brood chamber. They have lots of room—lots of good, fresh air, perfect heat—both day and night—and the cleanest and freshest chamber ever made in any brooder. You can raise more chicks in an X-Ray Brooder because it makes a perfect home for them—even better than the old hen, herself.

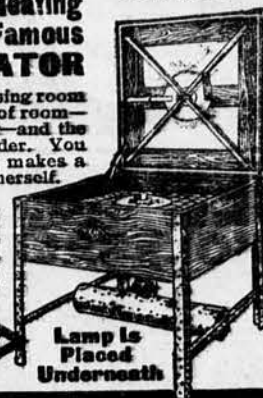
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Let me absolutely prove to you that my X-Ray Incubator is really the only perfect one on the market today—that my X-Ray Brooder will raise every chick worth raising. There are many other big points I want to tell you about. Remember I guarantee to ship your brooder or incubator same day order is received and I pay the freight anywhere! Address me personally.

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J. H. Kate



Lamp Is Placed Underneath

miss an issue: You can feed safely one-half to a pound of pure bright cottonseed meal per day to horses. If readers have other experience, let us hear from you. Subscriber can feed double that quantity of linseed meal or oil cake.

Alfalfa in Arkansas.

Answering James C. Hearrell, Warren,

Ark.: You can sow alfalfa in August or April. Sow on clean ground after thorough plowing and pulverizing and packing seed bed well. Sow not more than 15 pounds per acre if sown broadcast. Ten pounds per acre is enough if sown with a wheat drill, which latter is a somewhat difficult thing to do unless drill has a seeder attachment. Write

nearest reliable seedsman for information regarding cost of seed. Be sure and get good seed. Your seedsman will tell you if soil in your section requires inoculation.

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I Ask Every Hog Raiser To Read These Letters About Curing Sick Hogs

You know I might talk about MERRY WAR POWDERED LYE until I was blue in the face and still not be able to convince you that MERRY WAR POWDERED LYE really is the greatest hog remedy, conditioner and fattener the world has ever known. But I want you to be convinced that I know whereof I speak because I have spent more than 20 years making test after test, saving hundreds of thousands of dollars of hog profits that otherwise would have been lost. I want YOU to feel some day that I have done the greatest favor that any one man can do for another.

You will be convinced if you will but do as I request. First, read these letters—hundreds of such letters are received every week. Learn what MERRY WAR POWDERED LYE is doing for other hog raisers. These people have tried MERRY WAR POWDERED LYE—they use it every day—they know what it will do and I'm going to let them do the talking.

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A. W. Davis, Hamlin, Iowa, writes: "Merry War Powdered Lye is the stuff to cure cough and thumps and put hogs in a thrifty condition and I will never be without it while I raise hogs."

Elvis Potter, Junction, Ill.: "Have been using a great deal of Merry War Powdered Lye. Find it the best medicine for hogs I have ever used."

Adam Schulz, McLouth, Kas.: "I consider Merry War Powdered Lye the best hog remedy I have ever used, and the cheapest. It has made a marked improvement in my herd."

Profit by the experience of these progressive Hog Raisers. Get a few cans of MERRY WAR POWDERED LYE of any dealer. Feed night and morning every day. Your hogs will improve from the very first feed. It makes them immune to disease—fattens them surer and quicker than anything else—tones the system—assists in perfect assimilation of food and prevents scouring. It saves feed, because every pound of the food they eat goes into flesh, none of it is wasted. MERRY WAR POWDERED LYE is not only the best hog remedy, conditioner and fattener the world has known—it is also cheapest.

Kettle Powdered Lye For Soap Making If you want the best lye, exclusively for soap making, scouring, cleaning, disinfecting, etc., use my famous Kettle Powdered Lye—it makes the best soap you ever used—but don't feed it to your hogs. Feed only Merry War Powdered Lye to your hogs.

At All Leading Dealers Most dealers handle MERRY WAR POWDERED LYE. If yours cannot supply you, write us, giving your dealers' names and we will see that you are supplied, and will also send you, free, a valuable booklet on, "How To Get The Biggest Profits From Hog Raising."

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You can keep worms, cholera and other diseases away from your hogs so easily and at practically no expense. All you have to do is to mix a little of Lewis' Lye with the slop—a teaspoonful to every five gallons, a quarter of a can to a barrel—and that will keep them in splendid shape. But you must do it now—don't wait until some disease hits them. And be sure to get

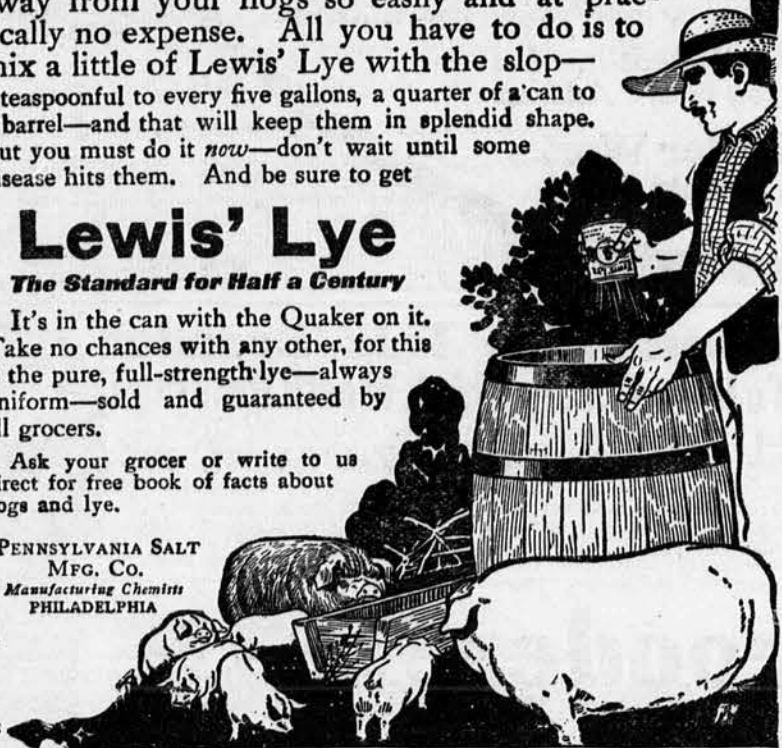
Lewis' Lye

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It's in the can with the Quaker on it. Take no chances with any other, for this is the pure, full-strength lye—always uniform—sold and guaranteed by all grocers.

Ask your grocer or write to us direct for free book of facts about hogs and lye.

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LIVE STOCK



Sorghum for Horses.

"How is a ration of sorghum only for horses not working? Would it be advisable to feed other forage with it?"—C. J. PICKETT, Levy, N. Mex.

You do not state whether you have sorghum hay, sorghum heads or shocked sorghum. If the hay is meant, it will be found about equal to corn stover, provided it has been well cured. It will deteriorate rapidly after midwinter unless it has been well cured and placed under shelter. Any kind of hay or fodder is not good for horses if it constitutes the whole ration. While the animals will live upon it, they are compelled to eat such large quantities that they become paunchy, their hair becomes rough, and they go into the spring in poor working condition. I would feed a small ration of grain, but if this cannot be done I would give a variety of roughness. Sorghum hay and alfalfa will make a fairly good ration on which to "rough through" horses.

Horse and Auto.

When the railroad became a common thing the horse was put out of business. When the trolley lines came he was again put out of business, and when the automobile arrived the same thing happened, and yet the price of horses today is greater than ever. No one can even guess at the great benefits which have been derived by the introduction of the auto and the tractor, but perhaps the best thing they have been the means of accomplishing is to actually put the scrub horse out of business, and put him out to stay. Since the general adoption of the auto and the tractor good horses have materially advanced in value, while the scrub is a drug on the market at any price and anywhere.

Breeding good horses is a profitable business, and is more than likely to remain so. Indeed, the prospects for the horse business have not been so bright in many years, but only good ones are wanted.

Hay for Steers.

At the Kansas experiment station, alfalfa hay, sorghum hay and Kafir hay were compared as roughages for fattening steers. It was found that when alfalfa hay was fed it took only about six pounds of corn and cob meal to produce a pound of gain, while when sorghum was fed it took 11.1 pounds of corn and cob meal to produce a pound of gain. The figures for the Kafir hay were ten pounds of the meal for a pound of gain. Experiments at other stations indicate that under similar conditions it would take about nine pounds of the corn and cob meal to make a pound of gain when clover and timothy hay were the roughage. Judging from the experiments, we would place a valuation on sorghum and Kafir hay of about two-thirds as much per ton as we would on clover and timothy hay mixed. Coarse stalked or sour Kafir or sorghum hay would not be worth nearly this much. From personal experience we know that cattle relish sorghum hay and make fairly good gains on it.

The Manures.

It is doubtful if any Kansas farm that is not devoted exclusively to stock raising will be able to supply enough barnyard manure to make good the loss of fertility sustained each year through heavy cropping. This means that the native fertility of the soil must be drawn upon and a gradual deterioration in soil fertility result. As Kansas soil contains enough of plant food elements to last from 40 to 200 years, this depletion is so gradual that it is not noticed in most cases, but it is ever present, nevertheless.

The three common methods of adding organic matter to the soil are by green manuring, by accumulations in pasturing, and by barnyard manures.

Dr. Cyril G. Hopkins, of the Illinois station, in comparing green manures with farm manures, makes the following significant statement: "As an average, animals digest and thus destroy two-thirds of the dry matter in the food they eat, so that one ton of clover hay plowed under will add as much humus to the soil as the manure made from

three tons of clover hauled off and fed, even if all the manure is returned to the land without loss by fermentation."

Green manures are necessary on most farms as a supplement to the barnyard manure, and for such a purpose the clovers, vetches and peas or beans are best, as they do not draw upon the soil for their nitrogen, and they are always available for use.

Like stable manure, the green manures not only enrich the soil, but they improve its mechanical conditions; increase its water-holding capacity; liberate plant food materials from the soil by its decomposition, and utilize much of these which would otherwise escape, and serves to make available plant food from the lower strata of soils.

Standard Poland China Association.

At the annual meeting of the Standard Poland China Record Association, recently held in South St. Joseph, Mo., the following officers were elected: President, J. O. James, Braddyville, Ia.; secretary, George F. Woodworth, Maryville, Mo.; treasurer, C. D. Bellows, Maryville, Mo.; directors, E. E. Carver, Guilford, Mo.; George Falk, Richmond, Mo.; W. O. Garret, Maryville, Mo.; Sam McKelvie, Lincoln, Neb.; J. B. Potter, Harper, Kan.; J. B. Lawson, Clarinda, Ia.; J. R. Roberts, Deer Creek, Okla.; vice presidents, E. A. Leak, Phoenix, Ariz.; Lloyd Spencer, Oklahoma, Ark.; John Blain, Long Beach, Cal.; Edward Wray, Wray, Col.; J. M. Royston, Fayette, Ia.; J. F. Cox, Keithsburg, Ill.; J. C. Glynn, Sioux Rapids, Ia.; J. B. Van Cleaze, St. Marys, Kan.; Fred Stetplugh, Alden, Minn.; W. A. Baker, Butler, Minn.; I. F. Tyson, Glengary, Mont.; Lyman Peck, Fort Calhoun, Neb.; Samuel Little, Hagerman, N. M.; A. B. Campbell, Geary, Okla.; E. E. Shields, Gervaise, Ore.; E. Monson, Waubay, S. D.; W. J. Duffel, Cloud, Texas; E. E. Ferson, Sunnyside, Wash.; T. B. Gill, Sheridan, Wyo.

The Cattle Situation.

After stating, in his address before the American National Live Stock Association, that the census reports show an apparent decrease of about 10 per cent in cattle, 8 per cent in hogs, and 16 per cent in sheep in this country during the last decade, retiring President Murdo Mackenzie said:

"The capacity of this country for the production of live stock has not decreased; indeed, I am sure, had we enjoyed the stimulus of profitable prices, we could have enlarged the production of live stock during the past ten years without overtaxing our ranches and farms. The natural query which arises in the minds of those not familiar with the raising and marketing of live stock is: Why does not this country raise more live stock? The answer is simple, and I think conclusive. The net returns on the capital invested and the labor employed in breeding, raising and fattening live stock for market have not been as great as those in other branches of agriculture, trade or manufacturing. Consequently, the capital and labor employed in stock raising have sought other avenues for investment and work. Human nature is much the same the world over. No man can be expected to continue long in any business after he discovers to his own satisfaction that he can secure better returns doing something else. If the prices for raising live stock during the past ten years had yielded better returns, we should today have more live stock in this country than ten years ago."

All true enough, but the pendulum has swung back, and the next decade promises a reversal of this condition. The speaker admitted that live stock on the hoof will average 20 per cent higher than they were 25 years ago, and the prospects would seem to indicate a much larger demand for meat-producing animals because of increased home consumption.

Beef production of the future will be on the farms in small bunches, and not on the ranches in great herds. This will mean that better bred animals must be used, as no other kind will pay. Conditions favor the breeder for an increased business at an increased profit.

Bone in Hogs.

"I have noticed quite often, when visiting other herds and attending swine sales, that the hogs are lighter in bone than mine and I have bought about fifteen in sales this year and only one or two of these animals show good bone. I can almost tell what a man feeds his hogs when I see them," remarked a farmer of experience. "I have bought hogs at public sales and when I brought them home, they did not know what milk or mill feed is. They knew nothing but corn. They had a light, weak bone. They were not in condition to raise a good litter of pigs. When they got near farrowing time they would have to supply bone for the litter from their own bodies, and that would weaken them and the pigs would be about as big as rats and would always grow into small hogs."

Feeding Lambs.

"I am feeding 1,000 lambs on corn fodder with the corn, and feed them oats and cottonseed cake besides the corn and fodder in troughs. They are not quite on full feed, still they are getting pretty good feed. Will feed 1,000 bushels of oats, and then will feed corn instead of oats, but what I would like to find out is how much cottonseed cake I can feed without hurting the lambs, as it looks to me cheaper than corn. One feeder told me to start them on 100 pounds to the 1,000 head, and never feed over 200 pounds to the 1,000 head per day. But I started them on 225 pounds per day per 1,000 head. What I would like to know is if it would be safe to work them up to one-half pound per head per day with what corn they will eat. I can't get any alfalfa hay for them, as it is too high in price and too far to haul. My fodder is not excellent; it is only good, as the fodder did not make the best of feed this year as former years, but I have plenty of it and feed it on the ground. Will thank you very much for any information you may be able to give me on my condition of feeding."—W. H. HAWKINS, Tampa, Kan.

To this inquiry Prof. G. C. Wheeler, animal husbandry specialist of the extension department of Kansas State Agricultural College, makes the following reply:

"In the absence of alfalfa you could not expect to secure good and economical gains without the use of either cottonseed or linseed oil meal. The cottonseed meal is the cheaper source of protein and has been fed to lambs very satisfactorily by a great many feeders. I would not advise your feeding it to exceed one-half pound per head daily at any time, and most feeders do not care to feed quite that much. It is very easy to stall a lamb on grain and concentrates, as you perhaps may know from experience. I would advise you to go very slowly in increasing the amount of cottonseed cake.

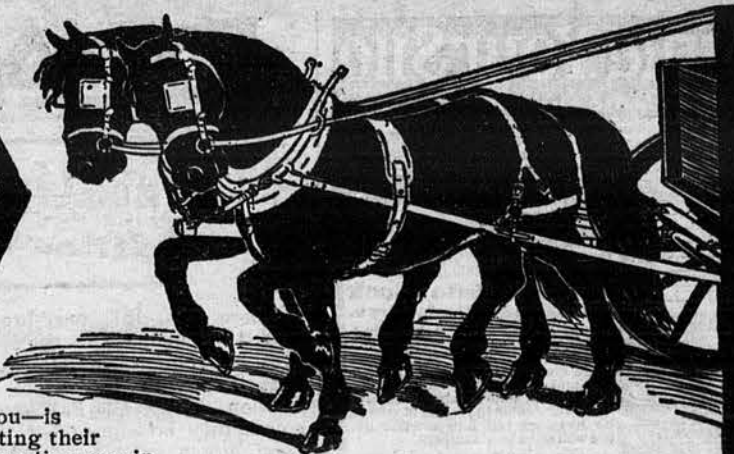
"The oats make a splendid grain ration to start the sheep with. They are a little more inclined to produce growth than rapid fattening, and would not be very profitable as a sole grain ration through the whole feeding period. Your plan of feeding the oats at the beginning of the feed is a good one and will make it easier and safer to give the lambs the maximum cottonseed meal allowance."

The hens of Kansas sent about as much wealth to market last year as did the cows. And the cows had the benefit of silos, cream separators and big barns. The hens got most of their help by their own scratching out of what otherwise would have been largely waste.

Feeding Frozen Beets.

Answering subscriber of Lakin, Kan., who asks if feeding frozen beets is injurious to stock. Not being a beet farmer or beet feeder, we had to look the matter up and find that Dr. Hadley, Wisconsin School of Agriculture, is warning stockman as to the possibility of poisoning from feeding frozen beets. Last year a considerable loss was sustained by Wisconsin stockmen from this cause. The greatest trouble resulted from beets that were frozen and afterward thawed before being fed. In one serious case the frozen beets were boiled with grain to make a slop. After this mixture was fed, a hog died in a short time, due to paralysis of the heart. Recent investigations show that the chemical changes which take place in the processes of freezing and thawing produce a poisonous substance which causes rather sudden death when eaten. Beets that have not been frozen make excellent feed for stock.

KEEP YOUR HORSES IN PRIME WORKING CONDITION



A HORSE in the field—working for you—is worth two in the barn—simply eating their heads off. There is no way of preventing spavin, ringbone, splint or curb from suddenly lamming and laying up your horses—but there is a way of safely and easily curing all these ailments and preventing them from keeping your horses laid up. For over 35 years there has been a reliable remedy that horsemen everywhere have depended on to save them money, time and worry.

Kendall's Spavin Cure

has been the trusted remedy of horsemen everywhere. It has not only been saving untold time, work and worry but thousands of dollars' worth of valuable horseflesh and has many times saved horses from death.

Here's a man—Mr. W. T. Campbell, Macadonia, Ky.—who not only saves money but actually makes money by using Kendall's Spavin Cure. He writes: "I have used 2½ bottles of your Spavin Cure, and have cured two mules of Bog Spavin. I bought the mules for \$80.00 and can now cash them for \$400.00. Shall never be without your great remedy."

Here's another man who has used Kendall's Spavin Cure with remarkable success. Mr. Floyd Nelson, Kings Ferry, N. Y., writes: "I have used your Spavin Cure for the past six years and have made in the neighborhood of \$700.00 buying Spavined horses and curing them. I consider there is nothing equal to it if it is used according to directions."

Never be without a bottle of Kendall's Spavin Cure. You can never tell when accidents will happen—when this remedy may be worth the price of your best horse. It is better to be prepared.

Don't call your case "hopeless" in the face of above testimony.

Next time you go to town get a couple bottles from your druggist. The price is uniform, only \$1.00 per bottle, 6 bottles for \$5.00. At the same time ask for our invaluable "Treatise on the Horse," or write to

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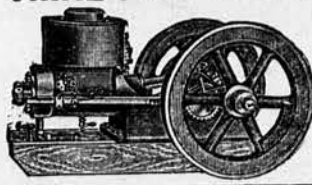
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DAIRY



There are 107 pure-bred Holsteins owned by members of the North Dakota breeding circuit, which works in cooperation with the State Experiment Station. KANSAS FARMER has urged community breeding. Let the neighborhood buy a good bull and begin grading up. That is the first step.

Hundreds of Kansas dairymen are now selling milk for retail consumption by city dwellers. It is a great responsibility to produce the food for thousands of infants, food which will give them a good start in health or carry to them illness which may result in their death. That is what rests on the shoulders of the dairy farmers.

The scrub milch cow is a greater abomination than any other scrub farm animal. Every farmer who has them will lose more money than would be necessary to replace them with good, and besides, he doesn't get anywhere. While we are endeavoring to improve everything else on the farm, why not the milch cow?

If a little whisk of alfalfa, bright prairie hay, or for that matter any other appetizing roughage is placed in the calf pen with the calf, it will learn to eat it at a very early age. If a young calf is put in a calf stanchion beside an older one, the younger will soon learn to imitate the older and eat the roughage, if it is near enough to it. The calf needs roughage as soon as he will eat it.

The dairy commissioner of Oregon has found that it cost farmers in that state from 8 to 47 cents to produce a pound of butter-fat on winter feed. The 8-cent man is making money and lots of it if he has large producing cows. The 47-cent man cannot hope to sell his butter-fat for enough money to make dairying profitable. Now, is it the fault of the business or the man if he fails to make dairying pay?

One of the creamery man's troubles this time of the year is "barn flavor" in cream. This flavor follows the cream to the butter and the consumer kicks. Such flavors result from filthy milking habits and from allowing the milk or cream to set in or too near the barn. While the milk or cream is warm it rapidly absorbs odors. Milk with dry hands, brush the manure off the cow's flank and udder, and keep the milk or cream out of the barn.

The average yield of 1,185 cows, of which a record was kept in Ontario, was 6,162 pounds of milk, 213.3 pounds of fat. The average of a number of cows was only 3,990 pounds of milk. One herd averaged 12,068 pounds of milk, 3.3 test, and 400.6 pounds of fat, or over three times this low average. There is food for thought for every dairyman in these figures. The "average" of anything is poor, and no man can afford to be an "average" dairyman, farmer or steer feeder.

Here are points worthy of note in producing good cream and cream which will keep sweet longest: Clean cream, cold cream and cream rich in butter-fat combine the secrets of producing fine quality. Be cleanly about the milking. Never use a pail, pan, can or separator which is not absolutely clean. Wash the separator after each skimming. Cool each lot of cream by setting the can in cold water immediately after separating. Never mix lots of cream until both are cold.

A farmer with say 25 cows will not hesitate to pay \$200 to \$250 for a good horse, but will not pay from \$100 to \$150 for a well bred registered bull. Taking the average of year the bull will sire ten heifer calves each year. Which is the best investment of money? The almost prohibitive price at which good dairy cows are now selling make it imperative that dairymen raise their heifer calves from their best cows. If such heifers are by a pure-bred sire of a producing ancestry, so much the better.

The happiest man in the dairy business in Kansas just now is the fellow who bought a silo and filled it last fall. We have several letters from dairy farmers having silos saying that with 30 to 35 pounds of silage per day and some 5 to 8 pounds of alfalfa hay, which is all the cows will eat, that their herd is milking as well as on grass. Of course these men are stabling their cows. With a June milk flow made on a feed which heretofore has gone to waste and the butter-fat selling at 30 to 35 cents per pound there is no wonder they are smiling.

Clarence S. Browne, of Amesville, Oregon, told in a recent meeting how he brought his dairy herd up from a small yield annually to the sum of \$120 annually. He advocated raising protein in succulent feed instead of buying expensive mill feed. He recommended the use of scales and daily milk sheets, and said the scales showed whether the cows were underfed or overfed, whether they received kindness or unkindness, whether the milking was done well or poorly, whether the cows were exposed to cold or kept warm. Mr. Browne said he got his start in good dairying by attending a few short courses at the Oregon agricultural college.

In dairying there is no more filthy practice, and one which spoils cream quicker, than that of not washing the cream separator after each skimming. The separator bowl has in it all the dirt of the milk separated, and being warm and in a warm bowl the development of bacteria by the next skimming is something awful. The subsequent skimming results in this bacteria entering the cream and spoiling it. Hand separators these days are easy to wash—in fact some have washing devices which make washing a pleasure instead of a chore. Think the matter over and see if you can justify yourself in this practice.

When we write of buying a pure-bred dairy bull, registered and from large producing ancestry, the reader immediately recalls to mind a report of a dairy bull selling for some \$8,000 or \$10,000, which prices have been paid for such animals, and knowing some of these animals we think they were worth that money to the men who bought them. My eye has just fallen on the advertisement of a Jersey breeder who says he will sell bull calves from merit registry cows at prices ranging from \$50 to \$100. He is located in Michigan, but the express added to the price would not exceed the amount such a calf would be worth in a herd of ten cows.

A dairy speaker in a farmers' institute the editor attended recently was arguing strongly the absolute need of ice on the dairy farm. Ice is a fine thing to have on any farm. The pleasure it gives will well pay for putting it up, and it is essential on the farm making butter. On the farm from which cream is sold it is far from a necessity, at least so far as its being needed in the care of cream is concerned. On every farm the well water will keep cream sweet in summer at least two days. Most of the dairy farm cream is sold to creameries these days. The time is coming when better care must be given this cream. KANSAS FARMER will, between now and warm weather, print a plan for a milk house and a cooling arrangement which will take the place of ice in the dairy selling cream.

KANSAS FARMER editor hopes that no one of his readers will ever be compelled to attempt to make his living from a 10-acre tract, but many a man would be glad to give it a trial if he thought the chances for success were reasonably good. Ten acres of good land in the rain belt will make a man a living if he uses a good dairy cow. I heard a speaker recently who told of a 10-acre farmer who by soiling successfully fed a herd of 30 cows, each producing 400 pounds of butter-fat per year. Such is a good beginning. If the butter-fat was sold in

15⁹⁵ AND UPWARD

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January 20, 1912.

KANSAS FARMER

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Alfalfa, Clover Hay, Wheat Screenings, chaff, oats, rye, kafir, corn, wheat, barley, shell corn, cotton seed, wet, dry or oily are all ground to meal on the "Bull Dog" Grinder.

Highest Grade of Corn and Buckwheat Table Flour in One Grinding

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cream, it, with the skim milk, would yield \$120 per cow. If the milk could be sold in the city, as it is sold, for 8 cents per quart it would yield \$400 per cow. Then there's the chickens to take into consideration, and several other things if a man is confined to such small quarters.

Here is dairying. Does it not pay to know this about the dairy herd—or for that matter to know the figures on feeding a bunch of hogs or steers, or about the profit from a certain field? A farmer who kept a complete record of the yield of milk and fat, as well as the cost of feed, showed a clear profit above the cost of feed with each of his 13 grade cows, varying from \$23.15 for a three-year-old up to \$37.50 from an aged cow. The lowest yield was 6,210 pounds of milk and 232 pounds of fat from the three-year-old, and even with this comparatively small yield the average of the herd, including one farrow cow, was 8,249 pounds of milk, and 273 pounds of fat, with an average income of \$65.37 per cow. The average cost of feed was \$33.70, varying from \$29.02 to \$45, leaving the average net profit at \$32.20 per cow. This is not a big profit, but a lot more than many of us are making. The man who is keeping this record will improve from year to year—he can't help it if he handles the herd himself, which he does.

Since the feeding of separator skim milk to calves has become the rule on nearly every farm, we hear little or nothing about the loss of calves from such feeding. To be sure the dairy farmer knows much more about feeding calves than he did ten years ago when seven out of every ten farmers would declare that skim milk would kill the calves. Those days there was much prejudice against the hand separator on that account. It was claimed that the foam on the milk was like a poison, and other equally nonsensical arguments were advanced—really as an excuse for not dairying. Similar notions are entertained regarding most new things, and one is that of our subscriber who says he has heard that skim milk from silage-fed cows is fatal to calves; also that horses cannot be fed silage. This is like the separator talk. Intimate acquaintance with the silo will make the user laugh at the foolish statements he regarded seriously.

Cawpea Hay for Roughage. Waverly, Kansas, subscriber has plenty of cow pea hay and poor corn fodder for roughage. He wants to know how to feed dairy cows for best results. Cow pea hay is the equal of alfalfa hay and better if it has matured peas in quantity. Give a feed of the hay night and morning in tight-bottomed mangers and a feed of corn fodder outside during the day. Ground cow peas to the amount of two pounds per day and six to eight pounds of corn and cob meal would, with roughage fed as above, make a balanced ration, and cows should do well on this method of feeding.

Corn Stover Only for Roughage. Subscriber A. C. H., Effingham, Kas., has only corn stover and small amount of corn from the same for feeding milch cows. To get a good milk flow from such a ration is impossible. His fresh cows will not make even a fair beginning. Grind the corn and cob and try two to three pounds of cottonseed meal per day with six to eight pounds of the meal. Cottonseed meal at present prices furnishes the cheapest source of protein—about three times as cheap as alfalfa hay. Corn is a carbonaceous feed—makes animal heat and fat. Milk is a nitrogenous product and requires nitrogenous feed along with the other kind. The dairyman can't get anywhere feeding corn except as silage.

Immature Silage Again. Hutchinson, Kas., subscriber L. H. H., asks if silage from immature corn will sour milk, and if it as good feed as silage from mature corn. Immature corn silage will not sour milk, even though it is higher in acid, more sour, than that from mature corn. The reason it is more sour is because it contains more water and less dry matter than mature corn silage. Silage from immature corn probably has 35 to 40 per cent of water. Immature silage this year has very little corn—grain—in it, and that is one reason Kansas farmers will not get as good results this year as they probably will next year. In this respect this was a poor year to try out the feeding of silage. When it comes to the matter of making the most of a short feed crop, the silo was the saving grace of a lot of Kansas farmers this year.

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Let us show you by actual facts and figures why the Great Western is the only spreader you ought to use. Then you will understand why it is used and endorsed by over 100,000 progressive farmers and by nearly every U. S. Government and State Experiment Station.

Built To Last

The Great Western has 24 feet of solid oak in its construction. It has an all oak frame, double oak bolsters, oak pole, oak axle caps, oak hanger, oak bed stakes, oak rake head and oak cross pieces. It has hickory single trees, hickory double trees and hickory neck yoke. The frame is absolutely rigid; it cannot be twisted out of shape, no basis can bind—hence it is the lightest draft spreader made. The GREAT WESTERN endless apron runs on 75 large rollers—each set on each side of the heavy oak frame and one set supporting the center. These large rollers are set close together so there's no sagging or waving of the apron slats.

The Great Western has a big 15-inch indestructible malleable fifth wheel that weighs 40 pounds. This is attached with malleable braces to two big, heavy, solid oak bolsters. It is arranged so that if one wheel drops into a hole or rut, there's no strain or binding on the frame.

The Great Western malleable fifth wheel and heavy oak bolsters are set back two feet under the box so the load is evenly balanced on all four wheels.

The front wheels of the Great Western track with the rear wheels. We make the heaviest wood and steel wheels ever put on manure spreaders.

Great Western Spreaders are made in two styles and six sizes ranging from 35 to 100 bushels capacity. You can suit your needs exactly in the complete Great Western Line. Each Great Western handles all kinds of fertilizers in any kind of weather.

Big Spreader Book Free

We want your name and address at once so we can send you our big, free book. No matter what is in other catalogs, compare any other spreader, point for point, with the Great Western. Find out how spreaders are made and what they are made of. Find out the record of repairs. Find out what other farmers say about them. Then see the spreader itself. Don't let any low price influence you until you know all the facts. Remember, it's the cost-per-year—that counts. Write now for catalog. Address

Rock Island Plow Co., 241 B Second Ave., Rock Island, Ill.

\$10.00 Factory to Farm NO AGENTS NO MIDDLEMEN

14 in. Double Shin S. B. Plow SEE WHAT IT MEANS

with Extra Share all Soft Center, 13 in. Rolling Coulters, \$1.00 extra.

\$10.00

Plows Only

12 in.	\$8.50
14 in.	\$9.95
16 in.	\$10.95
Bulky Plow	\$25.00
Gang Plow	\$35.00

1000 other articles.

Big Catalogue FREE

HAPGOOD PLOW COMPANY, 532 Front Street, ALTON, ILLINOIS

The only plow factory selling a full line of implements direct to farmers at wholesale prices.

Let Me Jump in and Do that Hoisting

In half a shake I'll show you how you've been wasting time, money, muscle. I'll prove to you I can save all three or you can send me home. I'll lift the hogs in and out the scalders. I'll shift your wagon box. I'll stretch your wire; lift your sick or injured animals. I'll hold 'em where you say until you say let go. I'll earn my cost in 40 ways, for I'm the

Jumbo Combination Safety Hoist and Wire Stretcher

And I'm reliable. The instant you let up on the pull rope I automatically lock it in a vise-like grip. The heavier the load the tighter the grip, yet I'm released by a turn of the wrist. My patented adjustable shoe fits various size ropes, new or worn. I'm made of best steel and am good for a lifetime. Let me come on a Make-Good-or-No-Pay basis. They make Hall Safety Hoists in 9 sizes—400 lbs. to 5 tons capacity. Every size guaranteed in strength and efficiency. Send your dealer's name and write at once for catalog and big FREE TRIAL OFFER to

HALL MFG. COMPANY, 201 Main St., MONTICELLO, IOWA SEE THAT LOOK!

Save Money on Your Fencing

19c PER ROD FOR 26-in. FENCING.

If you will take the trouble to investigate "SAMPSON FENCE" you will say that we sell the best hog and pasture fence made. Top and bottom wires are 10-gauge hard, smooth, galvanized wire. Middle wires and stays are 12½-gauge heavily galvanized.

"SAMPSON" FENCING—

No Better Fence Made

Is guaranteed by us to be full weight and to satisfy in every particular, or no sale. "Sampson" Fence can be had from 20 to 56 inches in height. We are prepared to furnish in small mesh if desired. State your needs and we will be glad to quote you prices. **LARGE CATALOG, containing full description sent FREE. Write for it today.**

JONES, POST & CO. [THE HOUSE THAT SAVES YOU MONEY!] KANSAS CITY, MO.

Autos and Roads

AN OCCASIONAL COLUMN FOR THE AUTOMOBILIST

How to Select Goggles.

When selecting goggles, move each lens in turn before the eye. If an object seen through either appears distorted, it shows that the refraction of the lens is irregular, and such should be discarded, as they are injurious to the eyesight.

Causes of Break-Downs.

A summary of the various causes through which most of the automobile break-downs occur is as follows: Soot or grease on the spark plug; points of the spark plug too far apart; contacts badly corroded; broken wires; loose battery terminals; leaky valves; seized piston, or breaking; broken valve stem, or valve spring; batteries exhausted; defective packing.

Avoid Wearing Goggles.

"A combination of goggles and windshield is not necessary. The windshield is designed to keep the wind, dust and rain from the eyes and the same holds true of goggles. While wearing goggles is supposed to give the driver a racy look, their constant use will tend to impair his eyesight," is the advice Motorist gives a driver who is having trouble with his eyes.

Reasons for Engine's Slow-Downs.

Several of the probable causes of the slowing down of an engine because of misfiring are that the carburetor may be choked with dirt at the jet or gauze filter, the batteries may be exhausted, the gasoline tank may be empty or air-bound, the gasoline tap partly closed, there may be a leak in the piping due to a hole or an unscrewed union. In pressure-fed cars there may be a leak at one of the pressure pipe unions.

What Kills Tires.

Under no circumstances should oil be used in washing tires, says Motorist. Water is all right for the purpose, but it should not be allowed to get inside of the tire. If it does it will get into the canvas and eventually start decay; then, when a heavy strain comes, the tire is likely to suffer a blowout. If you want to know why oil is bad for tires, immerse a small strip of rubber in kerosene and allow it to soak for a little while. You will see that it has become swollen, and a close examination will show that it is almost disintegrated, and will crumble in the hand.

Second-Hand Tires.

Answering subscriber J. L. H., Emporia, Kan.: It is doubtful whether there is any permanent saving by purchasing second-hand tires. Rubber is susceptible to various forms of chemical action, and the fabric that enters into tire manufacture is bound to deteriorate in quality when subjected to varying conditions. Extreme heat and cold will damage rubber, and it is absolutely impossible for the ordinary purchaser to either determine the age of a tire or the treatment it has received. Only the most experienced can judge these things correctly, and even their judgment is by no means infallible.

His Last Car Launched.

To announce a new model of automobile is not an unusual thing these days, but it is unusual that a veteran designer should announce the launching of his farewell model. This is what R. E. Olds has done in launching his Reo the Fifth, which is the twenty-fourth model which he has created. This is to be a 30-horsepower car, and while it will embody all of the strong features which have won for the Reo a long and unbroken chain of victories on road and track in every part of the globe, it will yet be so greatly improved throughout as to make it in design and construction an almost absolutely new car. In short, Mr. Olds thinks it is pretty close to the acme of automobile efficiency, economy, comfort, safety and reliability. It represents all of the best ideas which he has gleaned from his 25 years of successful experience in building gasoline engines and automobiles.

Breezy Book for Autist.

The editor owns an automobile, and by the way finds it cheaper than keeping a horse in Topeka, and so is something of a motorist. We enjoy reading a good automobile book, and such is the

Reo Echo, just issued. It easily ranks among the largest, brightest and strongest house-organs published in the world. Lincoln Crayon, the veteran motorist and automobile writer, tells in his clear, realistic, amusing and intensely human way, in story and bright half-tones, a score or more interesting things that happened on his motor trip from New York to Jacksonville in the 1911 Glidden tour. Many other popular writers are included among its contributors. This handsome 48-page brochure sparkles with wit, humor, love of nature and country, from cover to cover. The rod, gun and chase each come for a neat share of attention. The farmer, business and professional man is equally represented and will find much of help and interest to him. A copy will also be mailed free to anyone on request to R. M. Owen & Company, 1759 Broadway, New York, so long as the limited supply lasts.

New Santa Fe Trail.

We recently printed an article wherein the route of a national good road for automobiles was described. This article was in error in stating that such road across Kansas followed the Missouri Pacific railroad west of Oage City. The ocean to ocean automobile road follows the Santa Fe trail, giving the user the option of traveling west from Kansas City via Olathe to Emporia or via Topeka and Oage City to Emporia. On this subject R. H. Faxon, president of the new Santa Fe trail organization for Kansas, of Garden City, Kan., says:

"Now the New Santa Fe Trail, which is the greatest and oldest good roads organization in the west, and which now comprises the states of Missouri, Kansas, Colorado and New Mexico, does not pass through either Oage City or Herington, and does not follow the Missouri Pacific. It travels in the main the old Santa Fe route, and passes from Ottawa to Emporia, through Cottonwood Falls, Florence, Peabody, Newton, Hutchinson, Sterling, Lyons, Ellinwood, Great Bend, Larned, Kinsley, Dodge City, Cimarron, Garden City, Lakin, Syracuse, Lamar, La Junta and on to Santa Fe, with a branch to Pueblo. It follows from Hutchinson the Arkansas Valley and the Santa Fe railroad. It is recognized by the government and all the leading road organizations of the east, and will be an important link in the coming great transcontinental highway."

What to Look for in Automobile.

When buying an automobile it is necessary that you be well enough posted to draw safe conclusions. That you may be helped some this from the manufacturer of the Great Western is of value and interest:

"It is intensely interesting to read some of the advertising by manufacturers who build cheaply. In designing a cheap car the manufacturer usually takes from five to ten items that go to make up the general specifications and makes these specifications fit the car so that the advertisements will read just the same as do the specifications of expensive, high-grade cars. Naturally, the specifications are picked out that do not add materially to the cost of the car—such as wheel base, for instance.

"Wheel base is, really, the cheapest thing that a manufacturer can add to his car. Specifications do not make good automobiles. It is the design, the workmanship and the spirit behind the factory that either makes the car high-grade or makes it not worth while.

"Many cars have from six to twelve inches more wheel base than the designers know to be proper. Many cars also have 36-inch wheels when the power is taxed with 34-inch wheels. Again, many cars have motors cast en bloc where the power actually demands that the cylinders be cast separately if the service and cost of maintenance is to be taken into consideration. Others have a beautiful, large, heavy body with light motive power. When a buyer purchases his machine it is to his interest to judge the mechanical details with care and not be governed by misleading advertisements. The Great Western is designed, built and finished with a rational, sane, honest and high purpose as the guiding star. It is built to last, because it is properly laid out in the first place, and secondly, because it is built with good material and well guided, high grade workmen."

The GRANGE

DIRECTORY OF THE KANSAS STATE GRANGE.

OFFICERS.

Master.....George Black, Olathe
Overseer.....Albert Radcliff, Topeka
Lecturer.....A. P. Reardon, McLouth
Secretary.....O. F. Whitney, North Topeka
Chairman of Executive Committee.....
.....W. T. Dickson, Carbondale
Chairman of Legislative Committee.....
.....W. H. Coultis, Richland
Chairman of Committee on Education.....
.....E. B. Cowgill, Lawrence
Chairman of Insurance Committee.....
.....I. D. Hibner, Olathe
Chairman of Woman's Work Committee.....

The Grange year just closed has been very satisfactory to all who are interested in the growth of the order. Of the 29 states represented in this forward movement, nearly every one reports substantial growth. Kansas has done fairly well, yet with our immense agricultural interests we should have a subordinate Grange in every school district.

The Grange has an honorable record of 50 years, to which we can all point with pride, but we must not rest on our record for we are living in the present and for the future. With the increased membership we ought to do something to advance our interests in a material way. Why not maintain an office in Kansas City, with an experienced stock man, who could receive the shipments of stock and other commodities shipped in carlots?

We could also have a purchasing agent who would buy for our members and ship direct.

One of the avowed principles of our order is to bring the producer and consumer closer together. This plan, worked out in detail, should be worth trying.

Our "Patrons' Fire and Tornado Association" is a potent example of what co-operation can do when along proper lines.

We are now carrying over \$2,000,000 of risks, at about one-half the cost of old line companies.

Field meetings are one of the essential features of the progress of the order. Many facts can be stated along this line, but it is not necessary. What you want to do is to get busy and send in your request early.

We must form our circuits so that we can utilize the time of our speakers.

A circuit starting in Leavenworth county, thence south through the range counties as far and including Allen county, then north and take in all the counties clear to the north line of the state.

The executive committee has secured the services of Brother Charles Hoyt, organizer for the National Grange. He is now working in McPherson county, and meeting with good success, having sent in the papers for Contention Grange, with good prospects for more in the same county. He will more than likely canvas the territory on west so that we may connect with our Grange territory in Pawnee county.

The indications are very encouraging. Many of the farmers now realize the necessity of organization and are ready to help the good cause along to improve the existing conditions.

County deputies can be of much help if they will canvass their districts and report the condition. We are anxious to extend the order. Much good may be accomplished, and no one be wronged by spreading the gospel of the Grange.

The report of the Patrons' Fire and Tornado Association for the year of 1911 is very gratifying to its organizers and an encouragement to all farmers who are interested (and all of us should be) in co-operative enterprises.

This year's increase has been greater than any previous year and the per cent of increase has been greater. While the risks have increased, the losses have also increased, and the increase in the losses have been a greater per cent, as compared to the risks, than in former years. The increase in membership has more than kept pace with our losses.

Many of our losses were due to the numerous electrical storms with which Kansas was visited last year.

The fact was brought out that we did not have a single loss on a properly rodded barn, which justifies the company in making a difference of 25 cents on the \$100 in favor of the rodded barn as compared to the barn without rods.

The company is now carrying over \$14,000,000 in risks, with 4,500 members.

Average policy, about \$2,000.

This company is strictly mutual and the participants must be members of the Patrons of Husbandry.

"Don't buy Ready Roofing by the smell, taste, bending or tearing it—or any other 'fool tests'—let me tell you a better and safer way" —The General

"I have originated a method of standardizing quality and value—**Certain-teed Roofing**—roofing bearing the certificate below which is your guarantee."



General Roofing, U.S. A's
Largest Manufacturer of Roofings
and Building Papers



Certain-teed Roofing is guaranteed for 15 years

(Put up in rolls and shingles)

This **Certain-teed Roofing** is not a new thing. It is just the General's way of protecting you from paying double what roofing is worth. There are a number of inferior roofings on the market, and since they claim everything for their goods, you need something for your protection. The day is past when you need to worry about the quality of the Ready Roofing you buy for your home, barn, tool shed, corn crib, poultry houses, buggy shed, ice house or other buildings.

The General's Certificate is for Your Protection



A Roll of
Certain-teed Roofing

Roofing does not wear out—it dries out. The only proof is on the roof. The General makes honest goods and gives every one a square deal—**Certain-teed Roofing** is made so that it won't dry out for years and years.

Simply ask your local dealer for **Certain-teed Roofing** and see that it bears our Certificate of Quality shown above—you will find the price within your easy reach.

Certain-teed Roofing costs no more. It is easy to lay and the most economical roof covering you can buy.

Before you buy another square foot of roofing—or if you have never used ready roofing—at least investigate—send today for our Free Book, just off the press, "How to build for less money," it contains facts and figures you should know—it will save you money—write today to the nearest point.

Back of this Certificate is the General's experience of nearly a quarter of a century in mining and refining asphalt, also manufacturing roofings. This is why he has outstripped all competitors and today owns and operates the three largest roofing plants in the world.

The General's three million dollar mills enable him to produce a splendid roofing at a low cost and place the local dealer in a position to sell it to you at a price so attractive you can't afford to use any other material.

Don't make any mistake—buy from your local dealer—when it comes to price, quick delivery and service, he has them all beat. But when you buy, see that our Certificate of Quality is pasted on each roll—you will not only save money but you will be entitled to the 15-year guarantee.

Free Book Coupon

If you will send me your free book #2, "How to build for less money," I will read it.

Name _____

City _____

State _____

General Roofing Manufacturing Co.

YORK, PA. MARSEILLES, ILL. E. ST. LOUIS, ILL.
MINNEAPOLIS, MINN. SAN FRANCISCO, CAL.



Society Shoes for Women

FOR formal occasions or everyday wear—for every season of the year—for city or country—the "Society" Shoe is a particular shoe for particular women. The "Society" shoe is made in many styles, in all the popular leathers, over last fashioned by designers who are thoroughly posted on fashion's whims. All honestly made of the finest leather. No substitutes for leather are ever used. The "Star" on every heel is a guarantee of high quality. "Society" Oxfords are also made in white Ducks canvas, corded satin, velvets, tans, browns, suedes, etc.,—all the newest novelties.

Sold at \$3.00 to \$4.00. Ask your dealer for the "Society"—wear them and learn why—
"Star Brand Shoes Are Better"

If your dealer cannot supply you write for a complimentary copy of our "Star Brand" Family Magazine, showing 92 of our 600 styles.

DEPT. 10 KF

ROBERTS, JOHNSON & RAND SHOE COMPANY

Capital \$5,000,000. 12 Big Factories.

Saint Louis, Mo.



Four For FERN You

We will make up set of four ferns from the following kinds: Boston, Whitman, Ostrich Plume, Elegance, Scott, Sprenger, Plumosa, and Less Fern.

Nothing is more beautiful for the home than ferns. We send you a beautiful collection of four ferns if you send us only 25 cents for one year's subscription to People's Popular Monthly and 15 cents additional (40 cents in all). Order today and you will receive the ferns charge paid. People's Popular Monthly, Sept. 10, Des Moines, Iowa

There Are 325,000 Reasons Why You Should Choose The Old Trusty Incubator

THERE are 325,000 people now using them successfully—making big money with them raising poultry every season. Every one of these successes is proof to you that the Old Trusty is the machine you ought to buy. No other machine has had such a tremendous sale—no other machine is giving such satisfaction—no other machine of same quality sells for such a low price.

Old Trusty On 30 to 90 Days' Free Trial

Read the proof in the description: Triple-cased throughout—inner case of high-grade 1/4-inch powder dry California redwood—middle case of highest grade asbestos—fireproof insulation—outer case, legs and all, of galvanized metal, handsome mottled finish—equipped with guaranteed-not-to-leak cold-rolled copper tank and heater—indestructible—can't burn, can't warp, swell or open at the seams—crack or decay—guaranteed ten years—twenty if you say so—shipped complete with best thermometer, egg-tester trays, and instructions—ready to run with sure results by anybody—no trouble, worry, or experimenting. Safety lamp and regulator fitted on at side—top clear for use as table in egg-testing.

Be sure to send for the big, free book—it shows over 500 photographs of machines in actual operation—of poultry yards—and of successful poultry hatches—also photographs of some of the people who are making successes with my machines. The book is written by Johnson himself, who has the experience of the largest incubator family the world has ever known. With the book Johnson will tell you for how much less than \$10.00 he will sell you an Old Trusty. Address

M. M. JOHNSON
The Incubator Man,
With a Score of 325,000 Satisfied Customers,
Clay Center, Nebr.

Freight Prepaid Anywhere Except Beyond The Rockies
Less Than \$10

I'll Start You and Keep You Going Right in the POULTRY Business

My World-famous high-quality incubators and brooders, and my Free Poultry Lessons make success easy and sure for you!

SUCCESSFUL INCUBATORS AND BROODERS

are made right and with the free advice and lessons I give my customers: no one can possibly fail to make the biggest hatches of strongest chicks. Write me. A postal brings all facts, book, prices and proposition. "Proper Care and Feeding of Chicks, Ducks and Turkeys"—sent for 10c. J. S. Gilcrest, Pres. Des Moines Incubator Co. 83 Second St., Des Moines, Iowa

Mandy Lee

The Incubator of Certainty

Operated by rule. The novice gets the same excellent results as the experienced operator. The only incubator with the open-front poultry house plan of ventilation. Only one applying the vital principle of low moisture with high temperature and high moisture when heat runs low. All regulated automatically. Send for latest book, describing the new features—plain, practical, helpful.

GEO. H. LEE COMPANY,
1137 Harney St., Omaha, Neb.

White Plymouth Rocks

GOOD TO LAY
GOOD TO EAT
GOOD TO VIEW

never been approached by any other variety. I have bred W. P. Rocks exclusively for 20 years and have some fine specimens of the breed. I sell eggs at "live and let live" prices, \$2 per 15, \$5 per 45, and I prepay express to any express office in the United States.

THOMAS OWEN, Sta. B, Topeka, Kan.

50 Best Paying Varieties Pure-Bred Chickens, Ducks, Geese, Turkeys, Eggs, Dogs and Incubators. All at Low Prices. Send 4c. for my Book which gives reliable information worth many dollars to you. **W. A. WEBER, Box 834, Mankato, Minn.**

SCOTCH COLLIES—BARRED ROCK COCKERELS.

The choicest pedigree stock. Also, 300 Barred Rock cockerels. Catalog free. Mrs. Florence B. Ziller, Hiawatha, Kan.

WANTED—POULTRY; WILL PAY HIGHEST market price. Write or phone. Wise & Smelser, 1127 Kansas ave., Topeka, Kan.

POULTRY



If you are getting eggs this zero weather you are fortunate and deserve great credit.

Hens won't lay in such severe cold weather as we have had lately unless extra good care is taken of them.

This means that you see to it that they have a warm house and a warm meal when they are most in need of it.

Don't forget the grit these days when the hens are confined to the house. Even if let out, they couldn't find anything in the way of grinding material, for the snow covers it all up. See that the grit box is kept well filled.

Those having poultry and eggs for hatching for sale should write KANSAS FARMER for its special low poultry advertising rates. The big special poultry number of February 3 next will be especially valuable in which to advertise.

It is well to give the fowls' quarters an extra bedding of hay and straw in cold weather. It makes them warmer and more comfortable, for they can nestle in it when they are through scratching in it for the grain you have given them.

Don't forget that the hens will need more feed as the weather gets colder. A warm-day ration will not satisfy the hunger and appetite of a hen on cold days. She needs some food to counteract the inroads of the intense cold on her system, besides the usual allowance that should go to the making of eggs.

One thing that can be given the fowls, and which they lack very often, is pure drinking water. Unless the poultry house is very warmly built the water will freeze very quickly when the thermometer is way below zero. It then behooves the poultryman to see that his hens are supplied with fresh water several times a day. If the water is warmed it will remain drinkable quite a while longer than when it is given cold. Remember that an egg contains 90 per cent of water, and that no matter how much you feed the hens, unless you give them water there can be no eggs.

Poultry Inspector.

No one will deny that the poultry product is a great industry in Kansas, but it is in great need of proper legislation. First, a poultry inspector should be appointed. If it is wise and necessary to have a beef and hog inspector, it seems to me that it would be wise and just as necessary to have a poultry inspector. Secondly, there should be a law that would compel the express companies and railroad companies to furnish suitably ventilated cars for shipping poultry, and racks so that the coops could be placed on them, instead of piling them one on top of another, as is done at the present time. Such laws would be in the interest of the consumer, the shipper and the producer.

No one will deny that the poultry crates are crowded in the express cars in every shape and manner, and there are often sick fowls with diseases that are contagious. And in that foul air healthy fowls are liable to take the disease. If slaughtered at that time, but little injury may be done, but if held a week or two before being killed the disease has reached such a state that you cannot remedy it. Many times the disease is among the poultry and you don't know it, and no improvement will come until we have some good law that will prevent such inhumane shipments as are practiced at this time.

I have been interested in poultry production for years, and have taken notice of this inhumane method of shipping poultry. I have invented an improved coop or crate that will alleviate this evil to a great extent. Underneath my coop there is an air space that will admit air underneath the fowls in the coop. They will get some air as foul as it generally is in an express car, but when the express smasher slams an old tight-bottomed coop on the top of mine it does not shut off the air from my chicks.

They receive air from underneath, and when my coops are piled one on top of another my chicks receive air from two ways, upwards and also downwards.

I would like to hold the position of poultry inspector. I would make those express smashers think I had taken lessons from Crumbine.—I. S. WARREN, Burlingame, Kan.

Roup.

As I have seen in your paper where people ask for remedies for diseases among poultry, will some one tell me what is good for roup among chickens? Some of mine have swollen heads and eyes, and on some it works in their throats. Please answer through the poultry column.—SUBSCRIBER.

Answer.—Your inquiry concerning roup is not the only one we have received lately. Inasmuch as the disease seems to be quite prevalent in various places, we will try to answer the question as fully as we can in order to benefit as many as possible. All experts agree that the disease is a very dangerous one, resembling diphtheria in the human family. Some claim that there is no known remedy for it, and that it is a loss of time and money to fuss with roup fowls. However, "as long as there's life there is hope," and we will give several simple remedies that are known to have helped afflicted fowls. The first thing to do is to take the sick chickens away from the healthy ones and keep them in a place by themselves, for all agree that the disease is contagious. They should be placed in a warm room, and fed an abundance of rich food, for many times the birds die of actual starvation. Their heads should be bathed in warm water and any matter in their nostrils or eyes should be removed, then wash with an antiseptic solution, such as peroxide of hydrogen. Where a swelling indicates the collection of matter in the nasal chambers, they should be opened, and usually a large amount of putrid mass may be removed.

After the diseased parts have been thoroughly washed, it is well to bathe them with carbolic salve or a solution of kerosene oil and lard, two-thirds oil, one-third lard.

Several roup remedies are advertised, and doubtless some of them are helpful, but none are any good unless you also take extra care of the fowls by placing them in a room by themselves, bathing their heads and feeding them good rich food.

A poultryman told us he could cure any roup fowl by dipping its head into a pan of brine, made with warm water and salt. He holds the chicken's head down in this brine till it almost strangles. We have no doubt that this would help the disease, for it does what we have already recommended above—it clears the passages of the obstructive matter by sneezing. A chicken is supposed to breathe through its nostrils, and when they are clogged up it is forced to the necessity of breathing through the mouth, and must keep its beak open, which is unnatural and aggravates the disease.

One writer says he cured roup by giving three drops of spirits of camphor on a piece of bread to each sick fowl. Another says to take a stick of common black licorice and steep it in water until dissolved. Give a quantity of it to the afflicted bird every few hours. Another poultry raiser says ten drops of turpentine to a fowl with roup is the best remedy he ever tried. He gives it four nights in succession, skipping the fourth night. Four or five doses generally does the work. A Canadian poultry breeder recommends the following for roup: Two ounces best vinegar, one tablespoonful pulverized alum, one tablespoonful sugar of lead. Put all into a bottle and shake thoroughly. Bathe the bird's head and nostrils well night and morning.

And so we might go on adding remedy after remedy. It won't hurt to try some of these simple remedies, but remember that none of them will do any good unless you take the fowl in hand yourself and give it extra good care in a warm place with plenty of nourishing food. There is more in the nursing than in the medicine.

Ship Your Hides and Furs

In any quantity, large or small, to the oldest and largest consignment house. Established 1870.

We originated this plan for handling hides and furs in this field—have made it the special feature of our business for years, and have developed the best outlets in this country. We understand the requirements of the shipper, and send quickest returns at top prices.

HIDES

Our service from any angle is the best in the business. Satisfactory results assured. Write today for tags and our full classified price list, with much information which will keep you thoroughly posted. We mail it regularly and it's free for the asking. We can satisfy you—try us.

M. LYON & CO.,
238 Delaware St., KANSAS CITY, MO.

LET US TAN YOUR HIDE.

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Send me your hides. My sure-fit measure system guarantees you best fit. Robe tanning pleases all. Taxidermy and heads mounted. Rugs to order. All work guaranteed. Write for prices and coat blanks. **R. F. Mullen, Taxidermist, Furrier, Tanner, 2417 Q St., South Omaha, Nebraska.**

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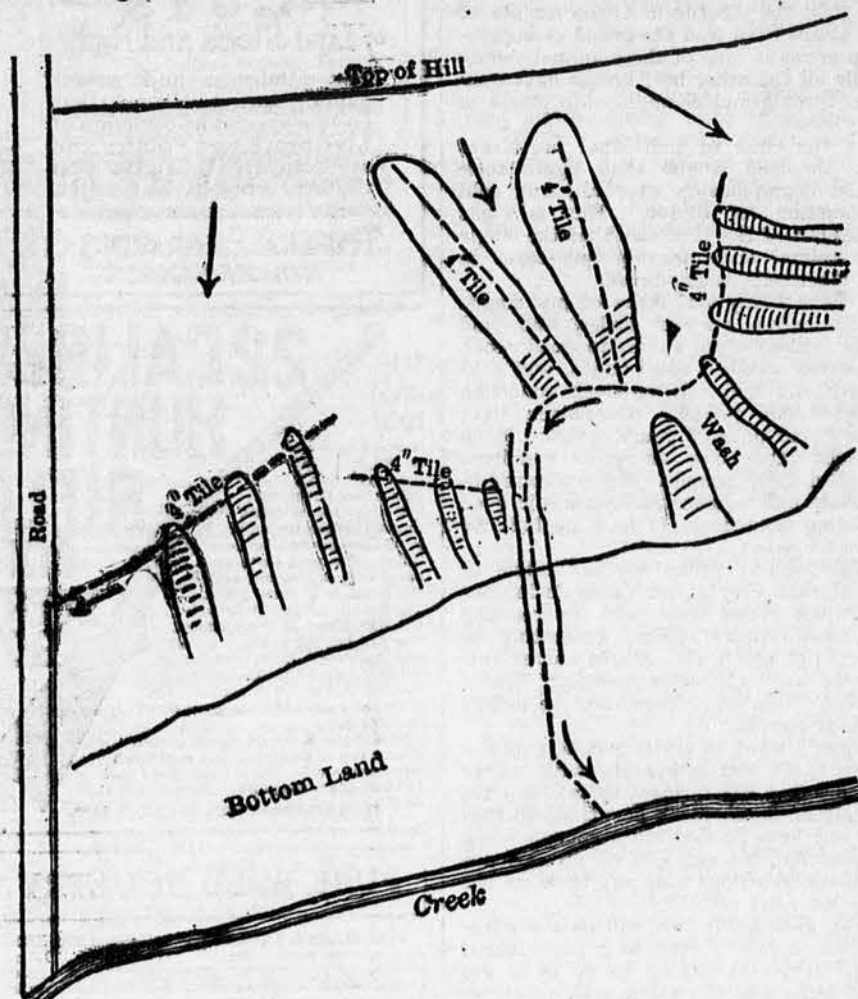
TILE DRAINING

An Oswego, Kan., reader writes asking for the proper method of tile draining a piece of land which he describes. The answer below is taken from "Practical Farm Drainage," a book by Charles Elliott, chief drainage engineer of the United States Department of Agriculture. The cut accompanying is from the same book and the illustration fits closely the inquiry of our subscriber:

"That underdrains will make terraces unnecessary in many instances has been ascertained. In 1903 an experiment was made under the direction of Drainage Investigations of the United States Department of Agriculture, to test the effi-

ciency of tile drains in preventing the erosion of such lands, and if possible do away with terraces altogether. The place selected for the experiment was a farm in northern Georgia. It was a portion of a field which has been abandoned because of excessive erosion in spite of the best system of terracing. It had an average slope of one foot in ten, and the soil was a red sandy loam of good depth with a firm clay subsoil. It has been observed that one cause of the great extent of damage seemed to be the condition of the soil at certain places resulting from seepage water. Previously softened by this, the earth yielded readily to the action of surface water, and ditches and gullies soon resulted, down

which the water flowed in torrents during heavy rains. "In the experiment made, underdrains were laid in such a way as to intercept the seepage water and thus preserve the firmness of the soil. (See illustration.) These do not conduct all of the water away from the land, but permit an outflow through the joints of the drains. They thus serve not only to arrest the surface water, but to distribute and conserve it in the subsoil. The cost of the improvement in this experiment was \$10 an acre for the land reclaimed, drain tile being difficult to procure and high in price. The gross receipts of the first crop on the land previously abandoned,



ciency of tile drains in preventing the erosion of such lands, and if possible do away with terraces altogether. The place selected for the experiment was a farm in northern Georgia. It was a portion of a field which has been abandoned because of excessive erosion in spite of the best system of terracing. It had an average slope of one foot in ten, and the soil was a red sandy loam of good depth with a firm clay subsoil. It has been observed that one cause of the great extent of damage seemed to be the condition of the soil at certain places resulting from seepage water. Previously softened by this, the earth yielded readily to the action of surface water, and ditches and gullies soon resulted, down

however, paid the entire cost.

"On this field the terraces were done away with altogether, the drains being sufficient to prevent the erosion, and this will often be possible. Even when this is not the case their use in conjunction with properly constructed terraces will never fail to prove highly beneficial. Too great care cannot be taken in the location and construction of such drains to meet the requirements of the particular locality, and thus secure a maximum degree of efficiency. The accompanying cut of the experiment referred to will show the method of locating the drains in this one instance, and will also serve to suggest the proper treatment in other cases."

FARM INQUIRIES

A. L. Edwards, Wilsey, Kan., asks if KANSAS FARMER readers have had experience in starting cedars from seed, and requests answer through this paper. Unless our subscriber is going into the nursery business we would advise that life is too short to do the thing he contemplates.

E. G. Trowbridge, M. D., Chicago, Ill., writes, January 1, 1912: "Please change my KANSAS FARMER address from Waldron, Mo., to 1404 East Madison Street, Chicago. At first I thought I would not bother you to make the change, but I find I miss the paper very much.

"Am trying to determine whether a cement block silo is better than a stave silo. Can KANSAS FARMER help me?"

Answering the above letter, subscriber will read carefully the silo number of KANSAS FARMER, issue of January 27. This number should give him a good idea of relative merits of different kinds of silo. He will get good information by writing advertisers of silos who use space therein.

Answering our subscriber, E. F. P., of Barnard, Kan.: Thoroughly disk ground

for oats. We recommend double disking. Too many oats in Kansas are sown in an exceedingly slipshod manner. Drill three pecks to one bushel of cleaned seed. We do not recommend broadcasting—by such methods the seed is not well covered. Drill as soon as danger of freezing weather is past. Nothing is gained by too early sowing. Treat seed for smut. This will pay. Clean the seed oats to get out weeds and light grains. Only catch crops can follow oats. Kafir or sorghum will make forage most years. The oat ground will be in good condition for wheat if plowed.

Our subscriber, F. B. G., Eldorado Springs, Kan., asks if the feeding of cow peas and cow pea hay is injurious to horses, and particularly so to colts. No. Cow pea hay in feeding constituents is the equal in every respect of alfalfa hay, and the threshed peas equivalent to about double the same quantity of wheat bran, and should be fed in about the same manner as those feeds. If subscribers have experience indicating that cow peas are detrimental to horses, let KANSAS FARMER hear from you.

Sam Thompson Proves That the Fairfield Incubator Is the World's Best Hatcher

I don't simply make general statements. I don't say my Fairfield is as good



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as any. I say it is the best machine, in the world. It is better built, better looking, easier and cheaper to operate than any other incubator and that it's without question the World's Best Hatcher.

I have thousands of testimonials that prove these statements. I have reports from chicken experts, government experiment stations, etc., saying that my Fairfield was tested in competition with other machines, and the Fairfield proved the prize winner. I have hatching reports from hundreds of Fairfield men, showing that the average Fairfield hatches 95%. These facts will prove that in order to get some chickens profits you need a Fairfield. These facts prove my statement that the Fairfield is without a question the most perfect incubator on the market today. On top of all this evidence I offer you my Fairfield with

90% Hatches Guaranteed

I make this guarantee in writing and protect you by giving you your money back if the Fairfield fails to make good. That's certainly the fairest, squarest offer ever made. Thousands took advantage of it last year. I want you to accept it this year and find out for yourself what a good incubator will really do toward earning chicken profits. I don't ask you to experiment at your expense—I take the risk.

Will Ship You My Fairfield On 42 Days' Free Trial

Try it. Test in every way you see fit. If it don't satisfy, if it fails to live up to my guarantee, if you can find any incubator at any cost that will do better, ship the Fairfield back and get your money. That's my proposition. No other manufacturers will duplicate this offer. That being the case, the Fairfield must be as I claim, the World's Best Hatcher.

Write Today for My Free Catalog

It tells all about my wonderful incubator. It tells all about my new brooder. It contains positive proof that my Fairfield can and does make good. It tells all about my 42 days' trial offer and my 95% hatch guarantee.

Sam Thompson, Pres.,
Nebraska Incubator Company,
57 Main St., Fairfield,
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The Kind You Can Raise

Big, strong fellows that grow right into MONEY. That's what distinguishes the Queen from other incubators. You never hear Queen users complain of poor hatches or poor chicks. It's because hatching conditions are right—right temperature, right moisture, thorough ventilation. The Queen makes Poultry pay.

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If it does not fulfill my claims all your money will be refunded. Thousands of Queens go out on this plan year after year. They never come back. There is a reason. Get my big book. Every page filled with useful information, illustrating poultry facts for poultry people. My splendid Poultry Guide and Catalog FREE. I pay the freight.

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First prize six consecutive years at Manhattan—State Corn Show—proves I have best strains Seed Corn in the West. Reid's Yellow Dent, Boone Co. White, fire dried, tested and guaranteed. Pure Red Texas Oats, Clover, Timothy and Alfalfa Seed. Write for free catalog. Every farmer will find it of interest. S. G. TRENT, Box K, Hiawatha, Kansas.

PURE BRED POULTRY

LEGHORNS.

FOR SALE—ROSE COMB WHITE LEGHORN cockerels, \$1 each. Address, E. A. Eagle, Melvern, Osage Co., Kan. Route No. 2.

PRIZE WINNING S. C. BROWN LEGHORNS—Extra quality. Write your wants. Mrs. L. H. Hastings, Thayer, Kan.

FOR SALE—SINGLE COMB PURE-BRED Brown Leghorn cockerels. E. Mach, Whitman, Neb.

S. C. BROWN LEGHORN COCKERELS, \$1 each; six, \$5; twelve, \$9. A. B. Haug, Route 4, Centralia, Kan.

SINGLE COMB WHITE LEGHORNS—Cockerels, \$1, \$2; pullets, hens, \$9 dozen. Carl Erhart, Independence, Kan.

FOR SALE—S. C. BROWN LEGHORN cockerels, \$1 each. Mrs. Ed Ewing, Conway Springs, Kan.

WINTER LAYING LEGHORNS—200 HUNDRED paid \$5.62 per hen in 6 months. Baby chicks, eggs. Catalog. O. C. Frantz, South Main, Rocky Ford, Colo.

PURE-BRED R. C. BROWN LEGHORN cockerels and pullets, \$1 each; four or more, \$5 each. Absolutely high-grade stock. Must sell quick on account of removal. J. H. Albers, Nashville, Kan.

PLYMOUTH ROCKS.

PURE WHITE ROCK COCKERELS—\$1 up. Mrs. John Ramsey, Fort Scott, Kan.

BARRED ROCKS, LARGE, EARLY, HIGH scoring birds. Henry Molynaux, Palmer, Kan.

CLOSING OUT BARGAINS. BUFF Rocks. S. C. W. Leghorns, Indian Runner Ducks. W. A. Hildand, Culver, Kan.

FOR CHOICE BARRED ROCK COCKERELS at reasonable prices, write Mrs. E. L. Rice, Route 2, Eureka, Kan.

CHOICE BARRED PLYMOUTH ROCK cockerels, at \$1.50 to \$3 each. Eggs in season. E. Leighton, Birmingham, Kan.

30 CHOICE WHITE ROCK COCKERELS, \$2 each, or three for \$5. Some fine pullets at \$1 each. J. C. Bostwick, Hoyt, Kan.

FINE BARRED ROCK, FARM RAISED cockerels at \$1.50 and \$2 each; cocks, \$1; hens, \$1. Mrs. John Yowell, Rt. 4, McPherson, Kan.

BARRED ROCK COCKERELS, BRED from show winners and good enough to head any breeder's yards. A. G. Hammond, Box 29, Vinland, Kan.

EGGS FROM WINTER LAYING, PRIZE winning Reds, Barred Rocks, and Runner Ducks. Fertility guaranteed. Mrs. W. B. Divine, Lamar, Mo.

TWENTIETH CENTURY YARDS WHITE Rocks are Kansas State Show winners. Prices reasonable. Write your wants. R. C. Lane, Newton, Kan.

BARRED ROCKS—BRED FOR BEAUTY and profit; 44 premiums; successful again at Topeka and Clay Center. Males, \$2 to \$5; females, \$1.25 up. Mrs. D. M. Gillespie, Clay Center, Kan.

FOR SALE—A FINE LOT OF PURE-BRED Barred Rock cockerels at \$1.50 each. Fox terrier puppies, \$3.00 each. Also a fine pair of fox and coon hounds. J. L. Yordy, Tescott, Kan.

BARRED ROCK BABY CHICKS AND eggs from pure-bred stock. Place your orders now. Day-old chicks from \$1 to \$2.50 per 12; eggs, \$1 to \$2.50 per 15. Joseph B. Moye, Topeka, Kan.

COCKERELS (WHITE ROCKS) PULLETS—Large, white, vigorous stock that never fail to win in any show. Eggs from all six varieties of Plymouth Rocks. Write Favorite Poultry Farm, Stafford, Kan.

BARRED ROCKS—BRED FOR BEAUTY and profit; hold 44 premiums; successful again at Topeka and Clay Center. Males, \$2; females, \$1.25 up. Mrs. D. M. Gillespie, Clay Center, Kan.

BUFF ROCK COCKERELS, \$1.50 UP. Barred Rocks, White Wyandottes, Cornish Indian Games, Buff Orpingtons, wild Mallard and White Pekin ducks, Toulouse geese and Pearl Guinea. Booking eggs at half what others charge. R. E. Bristol, Dept. H, Vermillion, Ohio.

SNOW WHITE ROCKS—A FEW FINE young cockerels and pullets for sale. These birds are strictly high-class, not culled; need room and will sell cheap now. References, German-American State Bank, Topeka, Kan. Address, J. E. Spaulding, Potwin Station, Topeka, Kan.

ORPINGTONS.

S. C. BUFF ORPINGTONS FOR SALE—Write for prices. H. Swank, Mayetta, Kan.

WHITE ORPINGTONS—LARGE, VIGOROUS, farm raised, heavy laying. Ernest Shadomy, Eastonville, Colo.

BUFF ORPINGTON COCKERELS CHEAP if taken at once. H. G. Nash, Grantville, Kan.

CRYSTAL WHITE ORPINGTON CKLS.—Excellent stock, \$3 each. Satisfaction guaranteed. C. M. Myerly, Burr Oak, Kan.

FOR SALE VERY CHEAP—CHOICE White Kellerstrass Orpington cockerels. Maud Lundin, Columbus, Kan.

S. C. C. W. ORPINGTON COCKERELS, \$2; Indian Runner ducks, \$1. Mrs. R. Varman, Kincaid, Kan., Route 1.

PURE BRED POULTRY

KELLERSTRASS WHITE ORPINGTONS. Prize winners. Eggs, \$3 per 15. Also Indian Runner ducks. Harry E. Burgus, Osceola, Ia., Route 15.

FOR SALE—40 HENS, 4 COCKS, SINGLE Comb Buff Orpingtons. Cook strain; great layers; one-third laying now; \$1 to \$2 each. Clara Colwell, Smith Center, Kan.

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BUFF AND WHITE ORPINGTONS, Rose Comb Reds. My Buffs won more ribbons at Newton show than all other competitors. Stock, eggs and baby chicks for sale. Roy Sanner, Newton, Kan.

MY BUFF ORPINGTONS HAVE WON AT Des Moines, Kansas City and Topeka. Send for special sale sheet. Mating list giving egg prices ready February 1. Fine cockerels and pullets for sale reasonable. H. F. Farrar, Axtell, Kan.

BUFF ORPINGTONS—COCKERELS AND pullets, from choicely bred layers. Good eyes, heads, combs, color. Scored. Prices reasonable. Mating list free. High-class Collie bitches, bred or open. Wickham Farm, Box 426, Anthony, Kan.

RHODE ISLAND REDS.

ROSE COMB REDS AND COLUMBIAN Wyandottes, from prize winners and heavy layers. A. D. Willems, Minneola, Kan.

ROSE COMB REDS—COCKERELS FOR sale; utility kind; prices right. Eggs for sale in season. Mrs. Maggie Gingrich, Michigan Valley, Kan.

MOORE'S SINGLE COMB REDS WON all blue ribbons and most of others at State Show again this year. Twenty-five full brothers of winners reasonable. Moore & Moore, 1239 Larimer Ave., Wichita, Kan.

ROSE COMB RHODE ISLAND REDS—Winners for years, Mo. and Kan. big shows. Fine stock for quick sale. Cockerels, \$1.25 to \$10; cocks, \$5 to \$10; pullets, \$1 to \$7. N. P. Todd, Rinehart, Mo.

RHODE ISLAND RED, BUFF ORPINGTON cockerels, \$1, \$2 and \$3 each; satisfaction guaranteed. Mrs. F. A. Fulton, El Dorado, Kan.

LARGE BONED R. C. R. I. REDS—DEEP red color, red eyes, long body, low-down tail, high scoring stock, \$2.50 each. Satisfaction guaranteed. Osterfoss Farm, Hedrick, Iowa.

WORLD'S BEST RHODE ISLAND REDS and IMPORTED WHITE INDIAN RUNNER DUCKS. My first championship pen is headed by second Madison Square, New York, cock, January, 1910, and contains first Madison Square pullet, December, 1910; also first, second, third, fourth and fifth Madison Square pullets, January, 1910. The greatest pen of Reds in the world. Free catalog. Southern Poultry Farm, Wade Hampton, Prop., Rogersville, Tenn.

WYANDOTTES.

SILVER LACED WYANDOTTES—CKLS., \$1. J. B. Fagan, R. 4, Minneapolis, Kan.

WHITE WYANDOTTES, EXCLUSIVELY for 10 years, 80c, \$1. Mrs. E. S. Louk, Michigan Valley, Kan.

HEATON'S BUFF WYANDOTTES—Standard bred. Write for prices. W. K. Heaton, Larned, Kan.

SILVER WYANDOTE COCKERELS—Standard weight, satisfaction guaranteed. F. N. Whiteaker, Beasonfield, Ia.

FIVE COLUMBIAN WYANDOTE COCK- erels, bred from winners, for sale cheap if taken at once. W. S. Holden, Douglass, Kan.

SILVER LACED WYANDOTE COCK- erels, large boned, well laced. Write for description and price list. Mrs. H. A. Dressler, Lebo, Kan.

COLUMBIAN WYANDOTTES, FINE utility stock for sale; bred to lay. Settings, \$2.00. F. E. Wells, 5900 Harrison st., Kansas City, Mo.

WHITE WYANDOTTES—EGGS FROM high scoring stock, \$2 per 15; \$8 per 100. Philip Willhardt, De Soto and Santa Fe Sts., Leavenworth, Kan.

ROCKS, REDS, WYANDOTTES, LEG- horns, ORPINGTONS. Stock, eggs, baby chicks. Send for catalog. Good cockerels now ready. KANSAS POULTRY CO., NORTON, KAN.

GOLDEN LACED WYANDOTTES, WON at North Central Kansas Poultry Association, Clay Center, December, 1911, 5 firsts, 3 seconds, 3 thirds. Stock and eggs in season. J. K. Hammond, Wakefield, Kan.

BUFF WYANDOTTES—A FEW SPLEN- did cockerels coming on. Mated pens a specialty. Only good birds sold as breeders; all others go to the pot. Eggs and baby chicks in season. Wheeler & Wylie Buff Wyandotte Yards, (formerly G. C. Wheeler), Manhattan, Kan.

LANGSHANS.

BLACK LANGSHANS FROM HIGH scoring stock. Old or young. Mrs. D. A. Swank, Blue Mound, Kan.

SEVERAL BREEDS.

LIGHT BRAHMA COCKERELS AND pullets, from \$1.50 to \$5. Mrs. F. O. Daniel, Westmoreland, Kan.

BARRED ROCKS OR OTHER BREEDS of poultry. Eggs for hatching or baby chicks are quickly sold for a small cost through a little ad in these columns. Write for special low advertising price.

CHOICE STANDARD BRED PEKIN, Rouen and Runner Ducks; White, Buff, Golden, Silver Partridge and Columbian Wyandottes; White, Buff, Barred Rocks; Rose and Single Comb Brown, White and Buff Leghorns; Reds and Buff Orpingtons; Buff, White and Partridge Cochins. \$2.50 single birds, \$4.50 pairs, \$6.00 trios. Toulouse Geese, \$4 single, \$10 trio. Bronze Turkeys, toms, \$6; hens, \$4. Geo. Hartman, Box 505, Freeport, Ill.

Doings of the Daddies.

I presume most people have seen some mention of the great winnings of the Aberdeen Angus cattle at the International Live Stock Show just closed.

They seemed to sweep in nearly all the prizes where they were shown in competition with the other beef breeds, winning first premiums and the grand championship over the Shorthorns, Herefords, Red Polls, Galloways.

The 15 yearling steers raised and fed by Escher & Ryan of Iowa won the grand championship over all beef breeds, and sold at auction for \$187.50. The prize money on these 15 yearling steers amounted to \$1,125, making a total income per head for them \$262.50, or the sum of \$3,937.50 for the 15 yearling steers.

At the 12 International Shows thus far held the Aberdeen Angus carlots of fat steers have won the grand championship prizes in nine of these annual shows, while all the other beef breeds have only won three grand championship prizes in 12 years.

In the class of individual fat steers the Aberdeen Angus steer again took grand championship over all, and sold at auction for \$1,440. This is eight times out of the 12 shows that the single fat animal championship has come to the Aberdeen Angus breed.

I have lately put some of my Angus heifer calves on our scales, and find some 9-months-old calves in good stock condition weighed 850 pounds, and a 3-months-old bull calf in stock condition weighed 375 pounds. One black steer over 1 and under 2 years, weighed 1,100 pounds. One cow in good condition weighed 1,500 pounds. My registered 3-year-old bull weighs 1,800 pounds in good breeding condition. (I have no bulls or cows for sale.)

The highest prices for fat cattle in the Kansas City Stock Yards during the year just closed were paid for yearling Aberdeen Angus steers, amounting to over \$100 per head. Angus calves fatten at any age after weaning, like a Poland China pig. These are the money makers for us.

Now, I want to invite you to consider these facts and co-operate with me in encouraging the farmers to take up the raising of these "black beauties," so that we will have in this state enough black calves that we can collect up carloads of black yearlings and put them in the feed lot each fall.

Any good grade cow will have a hornless black calf if bred to a good Angus bull. Hence the thing to do is to get good bulls and use them with whatever good cows the people may have of the beef types; and soon the pastures will be full of black calves that fatten at any age like a Poland China pig.

Two or more breeders can buy bulls in partnership. Be sure to buy good bulls to start with. Don't buy a poor individual, no matter what pedigree he may have. Take good care of your calves and there will be plenty of people who will want to buy them.

The top prices for the best fat steers of all breeds except the blacks was \$7.90 in Kansas City on the first inst. But two cars of prime blacks brought 9 cents, or \$127 per head. What's the matter with the blacks.—THOMAS D. HUBBARD, Kimball, Kan. (Before Stock Breeders' Association.)

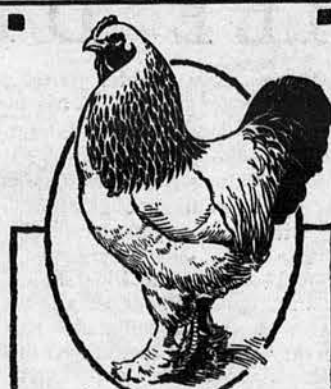
Thinks Lye a Good Hog Conditioner.

Our subscriber, Thomas E. Clarke, manager of the Reno herd of Shorthorn cattle and Berkshire hogs, of Medora, Kansas, writes as follows regarding our inquiry for information pertaining to the use of lye in hog feeding:

"On my father's farm I do not recall any time when we fed lye other than that which was dissolved from soap in the dish water. We always fed salt and charcoal or slack coal and wood ashes.

"Since I have been here I have followed much the same practice. I kept the hogs supplied with wood ashes, air-slaked lime, common salt, and occasionally fed coppers in the slop. During the cholera scare this fall I decided to feed lye in addition to these other conditioners. Within a week after commencing to feed lye any observer could notice an improvement in the looks and condition of the hogs. They had better appetites and were healthier looking. Their hair looked glossy and their eyes were brighter. Those on full feed seemed to do better and gain faster.

"I have never had any sick hogs. While I have had no positive and far-reaching results from the use of lye as a preventative of sickness in hogs, I believe that it is much better and cheaper than any patent preparation now on the market. It seems to stimulate the vital



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22 CALIBER HUNTING RIFLE FOR EVERY BOY

This Great Rifle is over 30 inches in length. The barrel is bronze, 16 inches long and finely rifled. It has a built up steel jacket, giving it great strength and durability. The rear sight is open and adjustable and the front is a knife sight. The stock is made of fine walnut with pistol grip as shown. The gun has the hammer action and the shell is automatically thrown out when the barrel is "broken down" for reloading. The gun shoots 22 caliber long or short cartridges.

This is one of the finest rifles made. I want you to have one. All I ask is a little easy work. Write today and I will tell you about the gun and how to get it.

A. M. Piper, 184 Poplar Bldg., Des Moines, Iowa.

PURE BRED POULTRY

BARGAINS IN LIGHT BRAHMAS, LEG- horns, Cochins, Rocks, Hamburgs, Langshans, Wyandottes, Minorcas, R. I. Reds, Orpingtons, C. Bantams, Geese and Ducks; 75 prizes won Ind. State Fair, 1911. J. E. Smiley, Judson, Ind.

GOLDEN BARRED ROCKS.

GOLDEN BARRED ROCKS—(THE 400 in chickens). Plumage buff barring on white. Free catalog. L. E. Altwein, St. Joseph, Mo.

CORNISH FOWLS.

DARK CORNISH COCKERELS FOR sale. Eggs in season. Try them. The best family table fowl in existence. L. C. Horst, Newton, Kan.

BUFF COCHINS.

FOR SALE—PURE-BRED BUFF ROCKS. Cocks, \$1; pullets, 75c; cockerels, 75c. Mary Conner, Cheney, Kan.

BUFF COCHIN COCKERELS, BUFF Cochins Bantams, Muscovy and Rouen Ducks. Gartner Bros., Coleridge, Neb.

TURKEYS.

WHITE HOLLAND TURKEYS—TOMS, \$4; hens, \$2. S. F. Crites, Florence, Kan.

W. H. TOMS, 18 LBS. AT 5 MO., EACH \$5. Cora Trapp, Wa Keeney, Kan.

FINE, PURE-BRED BOURBON RED Turkeys for sale. Mrs. Frank Neel, Beverly, Kan.

MAMMOTH BRONZE TURKEYS, WIN- ners at Kansas State Show, and registered Scotch Collie pups for sale. I. P. Kohl, Furley, Kan.

BOURBON RED TURKEYS FOR SALE—Extra fine, priced reasonable. Write at once. O. F. Nolan, Moran, Kan.

DUCKS.

INDIAN RUNNER DRAKES, EXTRA fine, \$1.50. Western Home Poultry Yards, St. John, Kan.

INDIAN RUNNER DUCKS—FAMOUS 280- egg strain, from imported stock. Low prices now. Write quick. Mrs. Frank Higgs, Route 19, Idaville, Ind.

CASH FOR FAT POULTRY DELIVERED on or before next issue this paper: Hens, heavy, lb., 10c; young roosters, 9c; geese, fff., 9c; ducks, fff., 11c; turkeys, 14c; old toms, 12c. Coops free. Daily refutations. COPE'S SALES SYSTEM, Topeka, Kan.

functions and thus render the hogs very much less susceptible to infection from disease. I did not feed nearly so much lye as the editor recommends. I fed about one-half of a 10-cent can in a barrel of slop. It seems to me that good care, with a variety of feed and mineral substances for the hog, will reduce the cholera danger to a minimum."

Drink a cup of this coffee

Note its rich aroma, its fine full body, its rare smoothness. That is the blend. Just the coffees required to give you that splendid cup-quality, have been carefully picked to make

TONE'S OLD GOLDEN COFFEE

Only tremendous popularity and wide sale make possible so great a coffee value. More cups to the pound than in ordinary coffee, and every cup a new taste-delight. See that the seal is unbroken.



35c a pound at your grocer's
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Des Moines, Ia.
There are two kinds of Spices, TONE'S and others!

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I want you to send for my 1912 Catalogue—just issued. Every page—108 of them—filled with special offers in price and quality. Be sure to get my free

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- 1 10c pht. extra fine mixed pansies
- 1 10c pht. giant single pinks
- 1 50 pht. finest mixed poppies.

30 cents worth for 10 cents postpaid

written with my 25 years experience—for buying Vegetable, Flower, Grass and Farm Seed, Upland grown Alfalfa, Clover and Field Grass Seed, Seed Potatoes, Corn and Grain, Fruit and Forest Trees, Small Fruits and Flowering shrubs. Freight paid on \$10 free orders. All Seeds Nebraska Standard. None better.

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CARL SONDEREGGER, President

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Twenty odd years ago, Salzer's White Bonanza Oats won the world's prize of \$500.00 offered by the American Agriculturist for the heaviest yielding oats.

Our new Rejuvenated White Bonanza Oats gave during 1910 and 1911 sworn-to yields ranging from 80 to 250 bushels per acre. Does well everywhere, not so particular as to soils and climates.

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A package of our Famous Oats, together with a lot of other rare farm seed samples, as also our Mammoth Catalogue, if you ask for same.

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Send a postal to-day for our 100 Page Beautifully illustrated catalog of genuine seed bargains, mailed FREE to any address.

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Plants, Shrubs, Vines, Bulbs, Fruit and Fancy Trees, have been tested for over 25 years; they are Money Growers and Mortgage Lifters, and the best that money can buy. Write at once—we can save you money.

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BEST IN THE WORLD
Prices Below All Others

I will give a lot of new sorts free with every order I fill. Buy and test. Return if not O. K.—money refunded.

Big Catalog FREE

Over 700 illustrations of vegetables and flowers. Send yours and your neighbors' addresses.

R. H. SHUMWAY, Rockford, Illinois

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I have found out by years of work and experience the best varieties for this country and the best methods of producing and taking care of seed corn properly. Five leading varieties—Hiawatha Yellow Dent, Reid's Yellow Dent, Boone County White, Legal Tender and Farmer's Interest. Also full line of garden and field seeds, raised and gathered under my personal supervision. Write for illustrated catalog.

John D. Ziller, Hiawatha, Kansas.

Greenwood County Nursery.

We have for spring delivery a general line of nursery stock. Apple, crab apple, pear, cherry, plum, peach, apricot and quince trees, grape vines, berry plants, rhubarb, asparagus, roses, flowering shrubs, Catalpa Speciosa and Black Locust. Certificate of nursery inspection with each shipment. **J. W. HINSHAW, Prop., Eureka, Kan.**

50 Concord Grapes \$1 Hardy — Vigorous
10 Budded Cherrys \$1 Stock Guaranteed.
hat has a reputation for low prices and square dealing. Send for our Free Catalogue and 25c Due Bill. **FAIRBURY NURSERIES, Box 7 Fairbury, Neb.**

HOME CIRCLE



Remember that pessimists are always in the rear and never in the van, in the march of progress. Your successful men and women are never chronic grumblers.

When washing a fringed bedspread don't put it through the wringer after the last rinsing water, but hang it on the line dripping. It will dry without a crease or wrinkle, will not require ironing, and the fringe will be fluffy and straight.

A simple and economical method for cleaning and polishing irons is as follows: Wet a cloth with water and wring partially dry, rubbing soap thoroughly on it. Place on several thicknesses of paper. Rub iron over it several times, pressing hard, to remove starch and roughness.

The following suggestion has been made for the person who is so fortunate as to have a heavy suit of hair: In cold weather when it is difficult to dry the hair it can be cleaned very nicely with corn meal. Sift the meal and heat very hot in the oven. Rub the meal into the hair from the scalp out, not rubbing it into the roots; brush and shake. The hair becomes fluffy and clean with little trouble.

When you have some biscuits left over and wish to have them warm, try the following plan: Put them into a double boiler without wetting them, cover the inner boiler, and let the water in the outside part boil vigorously for 15 or 20 minutes. The biscuits will come out as hot and moist as if just taken from the oven. If you haven't a double boiler put the biscuits in a lard bucket with a tight cover and set this in a kettle of boiling water.

9112.—A Chic and Stylish Afternoon or Calling Gown for Misses and Small Women.

A costume with tucker for misses and small women. A unique feature of this design is the effective side closing, and both waist and skirt, and the effect of



the plaits at the seams, which lend fullness to the skirt while preserving the slender lines. The waist has a prettily shaped collar and is cut with body and sleeves in one. The pattern is cut in five sizes, 14, 15, 16, 17 and 18 years. It requires 5½ yards of 36-inch material, with 1½ yard of 27-inch material for the tucker for the 16-year size. A pattern of this illustration mailed to any address on receipt of 10 cents in silver or stamps.

There is no success without honor; no happiness without a clear conscience, no use in living at all if only for one's self. It is not at all necessary for you to make a fortune, but it is necessary, absolutely necessary, that you should become a fair dealing, honorable, useful man, radiating goodness and cheerfulness wherever you go, and making your life a blessing.—Robert Waters.

How many of you in testing a cake to see if it is done use a broom splint? I hope not many, as there is more than one reason why this is not a good method. If the splint is taken from a broom in common use, it is anything but clean, and if they have been taken from a new broom it is not safe, as sometimes the broomcorn is treated with arsenic or other injurious stuff to make it of that bright attractive green which many prefer to buy. A very fine knitting needle is excellent for this purpose, or toothpicks can be used.

It sometimes happens that a portion of the yolk will break into the white when you are separating the whites from the yolks of eggs, and this, of course, will prevent the whites from beating to a stiff froth. Here is the remedy: Wring a clean cloth out of warm water and gently touch the spot or spots of yolk that have dropped into the whites with the folded point. The yolk will adhere to the damp cloth.

Cruel Papa.

"Papa says if I give up my singing lessons he will present me with a pair of diamond earrings."

"You have never worn earrings, have you?"

"No; I should have to have my ears pierced."

"Ah! yes, I see his idea. He wants to pay you back in your own coin."—Western Christian Advocate.

9096.—A New Frock for Mother's Girl.
Girl's one-piece dress with chemisette and with revers collar trimming. This desirable model has a most unique collar trimming, cut in sailor style over the back, while the front extends in revers fashion on one side to the hem of



the dress, and forms a yoke collar on the other side. The closing is effected in the front under the revers. The sleeve may be in full length or three-quarters length. Any of this season's popular dress fabrics may be used for this model. It is cut in four sizes: 6, 8, 10 and 12 years. It requires 3 yards of 44-inch material for the 8-year size. A pattern of this illustration mailed to any address on receipt of 10 cents in silver or stamps.

SAVE SEED MONEY!



You don't believe it's fair for you to pay high prices for poor seed, just to enable the seedman to print an "elaborate", "high-toned", expensive catalogue — YOU want high-grade SEEDS rather than a "high-toned" catalogue. That's just the way I feel about it, too! That's why I am giving you usable value in seeds rather than useless value in a "high-toned" catalogue.

My new 1912 Bargain Seed Book is a straight-from-the-shoulder book of seed facts — every page is filled with big bargain offers on tested, dependable seeds, rather than high-sounding names and fancy pictures of unknown "freak" vegetables. Thousands of readers of this paper who have given me their business for years already know the value of

Zimmerman's TESTED Seeds!

Zimmerman's Seeds are first quality seeds, true to name and sure to please. I sell tested seed only and give every customer prompt attention, courteous treatment and the most possible in quality and quantity for every cent they pay for my goods. I want you to have a copy of my catalogue so that you may prove by one trial order that it means profit and protection to you to buy all your seeds from me. Write me today for a free copy of my 1912 Bargain Catalogue. A postal will do. Address,

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Prove moneymakers everywhere. They are a sure crop of easiest culture. Sell well on all markets because they make such fine preserves. Also delicious table fruit. Grow plenty of them! Never enough offered in any market.

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RATEKIN'S SEED HOUSE
SHENANDOAH, IOWA Box 1

Special Prices On

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Get our catalog before you buy. 1,200 acres in Nursery Stock. Fruit, Ornamental and Fruit Bearing Trees, Shrubs, Vines and Roses. Everything in the Nursery line. Free from all disease. Inspected by State Entomologist.

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BIG SEED ANNUAL

for 1912 is now ready, 108 pages, hundreds of illustrations. We handle only pure bred, highly germinating, Kansas grown seeds, tested by experts trained in U. S. Government Laboratory. Barteldes Seeds for field, farm or garden have been famous for 45 years. Write for our Cultural Guide and Free Book on Alfalfa. Our PINK LIST gives current prices of field seeds in quantities. Issued weekly. FREE.

BARTEDES SEED COMPANY,
507 Massachusetts Street, Lawrence, Kansas.
Oldest Seed House West of Mississippi River. Est. 1866.

BARGAINS IN LANDS

FARM BARGAINS OF TODAY

No. 120—Fine 160-acre farm 3 1/2 miles northeast of Clyde; 115 acres in cultivation; good frame house, frame stable for 8 horses, fair improvements. Price \$10,000.
No. 123—Excellent 151 acres, 2 1/2 miles from Clyde; 130 acres in cultivation, 20 acres pasture; new frame dwelling of 8 rooms; frame barn for 6 horses; double granary; dwelling heated by furnace; telephone in house; on R. F. D. This is an excellent farm and home and in fine state of cultivation. Priced right at \$14,000.
No. 132—150 acres, 2 1/2 miles from McCammon, Idaho, a new and nice town on the Fortneuf River; junction of two main lines of railroads; town has electric light, water works, a \$13,000 public school building, 150-barrel flouring mill and all modern improvements. Eighty-five acres of the farm lay along the river, under perpetual patent water-right, 30 acres of which is in high state of cultivation; 60 acres is bench land, of which 30 acres are in cultivation and will be in winter wheat; 10 acres in orchard, 7 acres in alfalfa and timothy, 1/2 acre in raspberries, pieplant, strawberries and other small fruit; small house of 3 rooms, incubator house, 10x12 ft. root cellar, 12x36 double chicken house and yards; all land fenced and cross-fenced with wire. Special price on this for a quick turn. Write for it.

We have many other bargains. Write us what you are looking for. We have it or can get it for you.

CLYDE LAND COMPANY, CLYDE, KAN.

HAMILTON, GREELEY, KEARNEY COUNTY LANDS.

Good, dark loam, smooth soil, no rock or sand hills, irrigated or unirrigated, large or small tracts in alfalfa, wheat, beet, broomcorn lands, where cattle, horses, sheep raising is very successful. We also have two good homestead relinquishments, cheap. Who wants a home of their own? Mr. Homeseeker or Investor, let us hear from you in regard to what you are looking for, and full particulars, prices and literature will be sent free. Good terms and honest prices. Write or call and see.

HOSTETLER & COMPANY, Syracuse, Kansas.

1,000—FARMS—1,000

Everywhere for Exchange. Get our fair plan of making trades all over the United States. Graham Bros., Eldorado, Kan.

100—FARMS—100

Improved and unimproved, at bargains. Desirably located.

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Real Estate and Insurance, Offerle, Kan.

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Jewell County—320 acres, 5 1/2 miles from Eshon; good improvements. Must sell quick. Address J. A. Cole, Eshon, Kan.

MUST SELL 231 1/2 acres, one of the best farms in Franklin Co., Kan., finely improved, \$60 per acre. Ask about it. T. H. Miller, Olathe, Kan.

WANTED—Farm in northeast Kansas in exchange for well improved 320 in Washington Co. Write Lock Box 71, Morrowville, Kan.

EASTERN KANSAS BARGAINS—Improved stock, grain farms; \$30 to \$65 per acre. Write; list free. J. E. CALVERT, Garnett, Kan.

PAY CASH FOR LAND.

Want to buy, 10 level quarters western land. Will pay \$500 cash per quarter. Give full particulars. Write W. A. LAYTON, New England Building, Topeka, Kan.

When writing advertisers, please mention KANSAS FARMER.

WANTED—A CAPABLE, HUSTLING man in every county in Kansas, who owns his own rig, and who will spend a part or all of his time in securing subscriptions for KANSAS FARMER on the most liberal subscription proposition ever offered to anyone. Address Circulating Manager, Kansas Farmer, Topeka, Kan.

FOR SALE

1,700 acres of my 4,400-acre ranch in Kearney County, Kansas, on the Arkansas River and Santa Fe R. R.; 700 acres alfalfa land, 100 acres in alfalfa; all fenced with three and four wires; 5-room frame house, stone basement; barn 25x50 feet, part stone basement; stock sheds with iron roof, all well built and 300 yards south of Sutton Flag Station; wells at house, barn and in pasture. Reason for selling: Too big for my foreman to look after. John Shinkle will show place. Price, \$20 per acre net to me. Can be in payments.

H. H. SMALLEY, Springfield, Mo.

OREGON ORCHARDS

WILLAMETTE VALLEY

NEAR PORTLAND.

Two railroads and another building this year. One good crop pays for orchard tract and all improvements. Lambert cherries being planted now and taken care of by most substantial expert orchardists. Ideal climate. No winds, or frost, or hail. Small amount down, balance easy payments. Full information. German Realty Trust Co., 264 Stark St., Portland, Ore.

EASTERN KANSAS FARM BARGAIN. 160 acres, 2 miles from Osage City, Kan., 100 acres under cultivation, 1 acre orchard, balance native grass pasture and meadow, farm all smooth, 8 room house (new), good cave, new barn 20x30 feet, with loft, cow barn, hen house, corn crib, hog and cattle sheds, good water, close to school; all good alfalfa land. This is a bargain. Price, \$55 per acre until Feb. 15. J. C. RAPP & CO., Osage City, Kan.

THREE GOOD ONES.

80 acres, improved, good land, \$600 cash, balance on terms just like paying rent.

80 acres, improved, \$400 cash, balance on same terms as above.

320 acres, improved, creek bottom land, great sacrifice, easy terms. Send for complete description and prices. They will go soon. Get busy.

Call on or address,

THE ALLEN COUNTY INVESTMENT CO.,
213 S. Washington Ave., Iola, Kan.

IF YOU WANT A FARM BARGAIN or a trade, write Buckeye Agency, Agricola, Kan.

BUY OR TRADE WITH US—Exchange book free. Bersie Agency, El Dorado, Kan.

TO TRADE—160-ACRE ALFALFA FARM, Montgomery Co., Kan., very desirably located; \$50 per acre. Foster Bros., Independence, Kan.

WE HAVE a nicely-improved 285-acre farm 3 miles from Garfield, Kan., that we can sell you, worth the money, or trade for a good stock farm in east part of state. Kimmel & Garth, Larned, Kansas.

FOR SALE OR EXCHANGE—Farms and ranches at prices ranging from \$10 to \$40 per acre; send for our dry-weather cut-price list.

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GOOD HOME FARM, 200 a., near R. R. town, 120 in wheat, nice level land, fair improvements, 7-room house, large barn, abundance of water, some alfalfa. A bargain. Write Moore Land Co., Kingman, Kan.

FOR EXCHANGE—Improved farm, 1 mile from Mountain Grove, Mo.; want western land, live stock or small farm near town that has race track. Geo. Westface, Stockton, Kas.

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FOR SALE OR EXCHANGE for live stock, hotels, rooming house 14 rooms, cottages, bungalow, lively barns, farms and raw land. Traders, let me hear from you. I. A. HARPER CO-OPERATIVE REALTY COMPANY, Holistown, Kan.

100—CHOICE DICKINSON AND CLAY CO. FARMS—100

50 acres 3 miles from town, 70 a. under plow, alfalfa land, 20 pasture and meadow, 5 room house, good well, barn and other buildings. \$2000 cash; rest to suit; 25 a. wheat included. Write for list. J. J. Bishop, Wakefield, Kan.

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I can sell or exchange your farm for you for another farm, city property or business of any kind. If you wish to change location give me a full description of what you have to offer, what you want and where you want it. Owners only. CARL M. COOK, Limon, Colo.

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Official 100-page book, FREE GOVERNMENT LAND, describes every acre in every county in United States; contains township and section plats, Maps, Tables and Charts showing inches rainfall annually, elevation above sea level by counties, homestead and other government land laws, tells how and where to get government land without living on it; United States Patent, Application Blanks, all about government irrigated farms and necessary information to procure government land. Price 25 cents, postpaid. Address Homeseeker Pub. Co., St. Paul, Minnesota.

ACT QUICKLY FOR THIS.

Farm of 240 a., 7 ml. from city, all fenced and cross-fenced, 90 a. in cult., 50 a. hog-tight, bal. native grass meadow and pasture. Fine 2-story house, good barn, feed lots, cribs, etc.; large bearing orchard; plenty of good water; half ml. to school, good road to town. Easy terms. \$30 per a. Fine bargain. Write quick.

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85 acres, 1 mile from center of Newton, Kan.; 60 acres alfalfa, 25 acres cultivation; all fenced with woven wire, hog tight; good 6-room house, good barn, good hay shed holding 300 tons; cement cave, water tank 28 feet in diameter, two windmills and other improvements. A snap at \$11,000.

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A CHEAP LITTLE MONEY MAKER. 160 acres, less the right of railway across the place, laying 29 miles east of Wichita and 2 miles from one town and 3 miles from another town, 1/2 mile to school and church, and other churches in both towns; telephone and R. F. D.; good 6 room house, bath room and pantry, and fine cement cave; barn 32x40, granary, corn cribs, smoke house, buggy shed and good hen house; all fenced and cross-fenced; 2 good wells of water; good orchard, fine shade; 65 acres in high state of cultivation; 50 acres pasture, 40 acres fine meadow. Price, \$5,150. Terms.

EDWIN TAYLOR REALTY CO.,
107 South Main St., Wichita, Kansas.

FOR SALE.

One of the Finest Farms in Kansas—Located in Washington county. Known all over northern Kansas as the W. H. Webster farm. You would have to see this farm to appreciate it. Consists of 480 acres of strictly choice land. Just rolling enough to drain nicely; rich black soil. No better in the state. Fenced and cross-fenced with 10-bar Page woven wire fence, 28 inches high, barbed wire on top and properly set with Osage posts. Fine modern \$3,000 residence, good as new. Barn with stabling for 28 head of horses; good hay barn, granary and crib room for 20,000 bushels of corn; cattle barn, feed lots, feed bunks, windmills and wells, large grinding house equipped with No. 3 Bowsher grinders and 16 horse-power gasoline engine, all new; wagon and stock scales, blacksmith shop and automobile garage. One hundred acres bearing alfalfa, producing three to four cuttings annually. Farm is fitted for raising and handling 1,000 head of hogs annually, and has been turning out 400 to 600 fat cattle each year. This farm is fully equipped and thoroughly established as a feeding station. No trouble to buy corn and alfalfa in addition to what is produced on the farm. This business is in active operation and the farm is under a very high state of cultivation. If fences and buildings were removed, every foot could be plowed in one land. Not a foot of waste land. Seven and one-half miles from nearest point (Greenleaf) on Missouri Pacific railroad. Good road, 1 mile from good country store and fine Catholic church, 2 1/2 miles from U. B. church and 1/2 mile from good country school. Price, \$40,000; \$25,000 down, balance easy terms.

W. H. WEBSTER, Greenleaf, Kansas.

BARGAINS IN EASTERN KANSAS.

160 acres in Anderson county, good soil; 80 acres in cultivation, balance in mow land and pasture, well improved and everything right up to date. Price only \$7,000; easy terms.

80 acres in Osage county, 3 miles from town; 60 acres good land, balance rough, 40 acres in cultivation, orchard, house and stable and hen house. Price \$2,500; easy terms. This is non-residence land is reason it is so cheap.

Call on or address,

R. H. BURNS,

Topeka, Kansas.

106 1/2 West Fifth Street.

WRITE WHIPP & CO.,

Concordia, Cloud county, Kan., for list of farm and city property.

NO. 65—280 ACRES, adjoining Coldwater, 200 in wheat, 1/2 goes, second bottom land fine for alfalfa, full set improvements. For quick sale \$45 per acre. Easy terms on half. TAYLOR & BRATCHEE, Coldwater, Kan.

STAFFORD COUNTY, KANSAS. One of the best farming sections in the state; write me for descriptions and full particulars about some of the fine farms I have for sale in this section; good crops all the time.

A. L. McMILLAN, Stafford, Kansas.

FOR TRADE—Good as new, 5 r. cottage, rented; \$800 insurance. Price \$2000. Want clear quarter of western land; good town. Address, M. W. CAVE, Salina, Kan.

BUY YOUR HOME NEAR CHANUTE, KAN. where you get good land, fine market, delightful climate, at \$30 to \$50 per acre. Write today. Home Investment Co., Chantute, Kan.

LANDS FOR EXCHANGE—Some good propositions for sale or trade in this locality. Offer us anything good. Write for descriptive book on Meade county, with prices. MARRS & DAY, Meade, Kan.

GREENWOOD COUNTY FARMS

and well-grassed stock ranches, in the corn, clover and bluegrass county, for sale at low prices on liberal terms. Write for full information.

J. G. SMITH,
Hamilton, Kansas.

WHY NOT OWN YOUR OWN HOME?

You can do so in eastern Colorado, where good land is still cheap, and where crops are raised every year. I can sell you good soil at \$10 to \$15 per acre that will produce 25 to 40 bushels of wheat, corn, oats, barley and potatoes; also, make large yields per acre. Write me for particulars.

FRANK VANDERHOOF,
Otis, Colo.

A WILSON COUNTY BARGAIN—233 a., 65 a. in cultivation, 50 a. pasture, 118 a. meadow, no rock, good 6 room house, good barn, two cribs, well and cistern. This tract adjoins a good shipping point, making it especially desirable on account of the large amount of hay land. This is a money maker. A snap at the price of \$31 per a. Come at once as this will not be on the market long at the price. M. T. SPONG, Fredonia, Kan.

Real Estate Sales

Are found right along by those who advertise in these columns.

Buxton Bros., Utica, Kan., write, Jan. 5, 1912: "We have received splendid results from our past advertising in your valuable paper."

H. H. Bersie, El Dorado, Kan., writes: "I am well satisfied with the results of my little classified land ads in KANSAS FARMER, and expect to keep them running right along."

Write us for special low land advertising rates.

KANSAS FARMER, Topeka, Kan.

If You Want to Sell Your Farm—

Among the more than 60,000 farm homes into which this paper goes every week, there may be a man or woman looking to buy just what you have to sell. Did you ever notice that every one who wanted to sell his farm, sooner or later found a buyer? When the offer of a farm becomes known more and more, the chances for a quick sale at the desired price get better and better. You can't make your offer known to possible buyers any more cheaply than through an advertisement on this page. The cost is small and the value big. Write for special low land advertising price. Address simply KANSAS FARMER, Topeka, Kan.

TRADES—EXCHANGES—TRADES—If you really want to trade your property, write Owners' Exchange, Salina, Kan.

WANT to buy good farm, from owner only. State location and price. Address, JAHN, Box 764, Chicago.

WE TRADE OR SELL ANYTHING ANYWHERE. The Realty Exchange Co., 18-22 Randall Bldg., Newton, Kan.

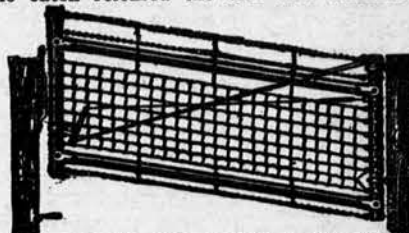
40 ACRES, 4 ml. from Kosoma, Okla., clear, all plow land, to exchange for restaurant stock, clear, well located. J. A. Kasparek, Belleville, Kan.

Some farmers look with disdain at every man who makes a living without working on a farm. Some city folks sneer at those who live by farming. In both cases the sneerers lack good sense.

The king and queen of Spain could help Columbus discover America. Neither one of them could enjoy a bath in a bath tub such as is now common to nearly every one who wants to take a bath. All the good things didn't belong to the "good old days."

FIELD NOTES.

The American Farm Gate, made and sold by the American Farm Gate Co., Fourteenth and Elmwood, Kansas City, Mo., is making good for farmers wherever used. A recent letter follows: "Those steel galvanized American Farm Gates I bought when I was in Kansas City last month are certainly wonders. Not only the galvanizing feature, which I have never seen on any other gate, but also the fact that this is a self-lifting gate absolutely, makes it very attractive to me. I have always had to tug and lift with the metal gates I had on the farm; but the American Steel Galvanized Gates work as easily as I open my watch. With the catch released the end rises automat-



ically, and the gate swings on its hinges as true and easily as the front door of the house. I have a dozen other gates of two or three makes in different places on the farm, and as soon as I can get around to it I am going to replace them with American Steel Galvanized Gates.—H. S. Brown, Greenwood, Mo." The American Farm Gate lifts itself. It does it just as naturally and simply as a screen door with a good spring closes itself, because it works on the same principle, in some respects. A powerful helical lifting spring, working in connection with a patented brace called an "equalizer," as shown in the illustration, lifts the gate as soon as it is released by opening the ratchet lock that holds it down when closed. This principle makes a perfect acting, self-lifting gate, which can also be lowered simply by pushing down. So easy is this action that a child can lower the gate without the slightest exertion.

The Worth of "Great Western" Autos. These are a few extracts from letters received from owners and users of the famous Great Western automobile: C. F. Fouquet of Andale, Kan., says the people thereabouts are sitting up and taking notice of what the Great Western really is. Mr. Fouquet says he has run his Great Western over 15,000 miles, and it is as good as new. F. A. Isern of Ellinwood, Kan., says that his Great Western has been operated over 7,000 miles and the motor runs better today than it ever did. It takes an honestly built, high-grade machine like the Great Western to elicit such expressions voluntarily from owners. A. C. Lea, postmaster of Shreveport, La., writes about the Great Western "Forty": "My car is just simply great; the more I run it the more I love it." Mr. Lea says he has had every occasion to learn how inferior other cars are to the Great Western. Mr. Lea expresses the feeling of Great Western owners in general when he says: "I am positive that any and all automobiles, even at much greater price, will suffer by comparison with the Great Western 'Forty.'" The Great Western car is made by the Great Western Automobile Company, Peru, Ind.

(Continued on page thirty-one)

HORSES AND MULES

DR. W. H. RICHARDS
Importer of
DRAFT HORSES

Importation arrived September 10, 1911. I have selected them personally, and have the pick of Belgium and France's 2- and 3-year-olds. All were selected for good breeding, soundness, bone and individuality. All good colors and will make ton horses. Every horse absolutely guaranteed. Anyone looking for a first-class STALLION at very REASONABLE price should come and see them before buying.

Barns Four Blocks from Santa Fe Depot.
EMPORIA, KANSAS.



Mammoth Jacks and Percheron Stallions and Mares

100 head of Jacks, Percheron and Standard Bred Stallions and Mares for sale. Jacks from colts to 6 years old; Stallions and Mares from colts to 8 years old. Write for prices and description, and visit our farms before you buy. Farm and sales barn on 21st street, 1 mile east of Union Stock Yards.

J. C. Kerr & Company
Wichita, Kan.

JACKS AND JENNETS

20 large Jacks from 2 to 7 years old.
25 head extra good Jennets priced right. Come and see me.
PHIL WALKER,
Moline, Elk Co., Kansas



30 Head of Percherons, Belgians, Road Horses and Jacks.

Winners of first and second prizes at Kansas State Fair, 1911. Sale barn right in town. My prices are right. Write or come and see me.
C. F. COOPER,
Fairfax, Kan.



IMPORTED AND HOME-BRED PERCHERONS, BIG JACKS AND JENNETS.

Priced to sell. Come and see us. Farm 4 miles from Raymond or Chase. Write J. P. & M. H. MALONE, Chase, Rice Co., Kan.



AL. E. Smith Stock Farm
Black mammoth Jacks and Jennets, Percheron Horses.

You will find what you want in large bones, registered, 15 to 16 hands standard. Special prices on fall sales. Both phones.
AL. E. SMITH,
Lawrence, Kan.



BIG HIGH CLASS JACKS.

W. T. Trotter, Mt. Airy, Iowa—Breeder of big, high class Jacks. If you want a big, well-broke, high-class Jack, write me. I have 10 head of extra good ones for sale. All sired by my famous herd Jack, Kena. All are black with white points. They are an extra fine lot.

W. T. TROTTER,
Mt. Airy, Iowa.

ROYAL BELGIANS

125—Head—125

Write for catalog.

H. Lefebure, Fairfax, Iowa.

REGISTERED JACKS—Also choice 8 months registered Percheron stallion.
BRUCE SAUNDERS, Holton, Kansas.

IMPORTED DRAFT STALLIONS, \$1,000 each; home-bred, \$300 to \$600. HART BROS., Osceola, Iowa.

PERCHERON HORSES, HOLSTEIN-FRIESIAN CATTLE.
Up-to-date Poland China hogs. Write your wants.
H. N. HOLDEMAN, Meade, Kans.

Best Imported Horses
One thousand each. Home-bred registered draft stallions—\$250 to \$650 at my stable doors. A. LATIMER WILSON, Creston, Ia.

PERCHERON HORSES.
M. L. Ayres, Shenandoah, Iowa, importer and breeder of high-class Percheron horses. Our offering at this time includes 20 head of outstanding good young stallions—a string of youngsters that will interest breeders who want the best. Come and inspect our offering if you want a high-class stallion. We have them.
M. L. AYRES,
Shenandoah, Iowa.

PERCHERONS, SHIRES, BELGIANS.
Prospective buyers should see our 60 head of big, heavy-boned, draft stallions and mares. Two importations this fall. We have a fine lot of American-bred Percherons that will suit, both in quality and price. All stock registered and guaranteed fully. Come to the barn or write.
SKOOG, REED & DECOU,
Holdrege, Neb.

RIVERSIDE Stock Farm

Percherons and Jacks for sale. We have a fine lot of registered Percheron colts coming two and three years old. A few large black Jacks and three registered standard-bred stallions, four to six years old. Pedigrees and breeding guaranteed.
O. L. TRIMMER & SONS, Chapman, Kan.

Home-bred Draft Stallions \$350 to \$600
Home-year choice, \$1,800. F. L. Stream, Creston, Iowa.



HOME OF THE GIANTS.
75 Head of Jacks and Jennets.
We won half of the premiums at the Missouri State Fair, 1911. We have these prize-winners for sale. They are the big, thick, big boned kind. Bradley Brothers, Burgin, Mo. Main line Mo. Pac. Ry., 65 mi. east of Kansas City.

FAIRVIEW STOCK FARM.
Twenty-five Mammoth Jacks, all ages; Pharaoh 2451, grand champion, Tennessee at head. Largest herd in west.
H. T. HENNEHAN,
Brighton, Lane County, Kan.

A. M. Walker, Laclede, Mo.—Breeder of high-class Percheron horses. A number of young stallions and young mares for sale; also mares in foal. All registered stock. Write me for prices. Inspection of stock invited.
A. M. WALKER, Laclede, Mo.

4 REGISTERED PERCHERON STALLIONS.
Went 1st and 2nd at Topeka for Percheron Stallions, any age, bred and owned by exhibitor. Won same at American Royal. Also best American-bred Percheron Stallion at any age.
J. G. ARBUTHNOT, Cuba, Kansas.

ANGUS CATTLE

BIG SPRING ANGUS CATTLE.
James Ambidge & Son, Pattonburg, Mo., Proprietors.
Breeder of pure bred Angus cattle and Durro Jersey hogs.
Breeding Stock for Sale.

ALLENDALE FARM BULLS.
Am offering a choice lot of young Angus bulls, sired by Even Eric 111592, ranging in age from 8 to 10 months, weighing from 600 to 800 pounds; one good 20-month-old bull. W. A. HOLZ, Savannah, Mo.

GALLOWAY CATTLE

FORT LARNED HERD.

REGISTERED GALLOWAYS
for sale. Fifteen choice registered bulls 10 to 20 months old.
E. E. FRIZELL, Larned, Kansas.

Capital View Herd of Registered Galloways.

A choice lot of young bulls for sale in numbers to suit. Write or call for further information. G. E. CLARK, 2301 Van Buren St., Topeka, Kan.

POLLED DURHAM CATTLE

Roan Hero the International Champion and BELVEDERE X2712-195058

Son of the \$1,500 Grand Victor X1635 150365 heads my herd of Double Standard Polled Durhams. A few extra good, blocky, thick-fleshed young bulls for sale. Inspection invited. Farm adjoins town.
D. C. VAN NICE, Richland, Kansas.

HEREFORD CATTLE

MODERN HEREFORDS
HERD BULLS.

BEAU BRUMMEL 10th 167719.
BEAU BEAUTY 192235.
CALDO 2d 260444.

Hazford Place Eldorado, Kan.
ROBT. H. HAZLETT.

100 — Hereford Bulls — 100
Coming yearlings and twos. A choice lot of cows and heifers. One to a car load. Bred to one of the best bulls in Kansas.
SAMUEL DRYBREAD, Elk City, Kansas.

GUERNSEY CATTLE.

A FEW Guernsey bulls for sale; butterfat record 608 to 714 lbs. per year; prices reasonable. Frederick Houghton, Roxbury, McPherson Co., Kansas.

GUERNSEYS.
For Sale—High-grade Guernsey bull and heifer calves. "Materna" strain. MRS. HELEN DONNELLY, Manitowoc, Wis.

Mammoth Jacks For Sale

Twenty Jacks from 14.3 to 16 hands high, all good, and including some of the best we ever had. The highest priced Jack at public sale last year was from our herd, and also the famous champion Missouri Queen. Call or write, mentioning Kansas Farmer.

DEIRLING & OTTO,
Queen City, Mo.

LEE BROTHERS' PERCHERONS FOR SALE.

Imported and Home-bred Stallions and Mares, Blacks and Grays.
80—HEAD OF MARES AND STALLIONS—80

From yearlings up. The kind that we sell such men as W. S. Corsa. Every one a good one. Among them is the prize winner from France. She is the best mare in the United States today, barring none. Come or write. All we want is a chance to show them. The price is right.

LEE BROS. Blue Ribbon Stock Farm, Harveyville, Kan.

SCOTCH SHORTHORN BULLS

Twenty head of high-class Scotch and Scotch topped bulls for sale; yearlings and 2-year-olds; all bred right and good individuals; also herd bull Victoria Prince Second 238026—a herd bull with a record as a breeder; all will be sold; worth the money and descriptions of stock guaranteed.
GEO. A. ROBINSON, Prescott, Ia.

DUAL - PURPOSE - SHORTHORN - CATTLE

Evergreen Home Farm, Lathrop, Mo., J. H. Walker, Prop.—Breeder of dual purpose Shorthorns with Oxford Down sheep, Berkshire hogs and Barbon Red turkeys. Breeding stock for sale at all times. Prompt attention to mail orders. Write us for milk and butter records of our Shorthorn herd.
J. H. WALKER, Lathrop, Mo.

GANZDALE HERD PURE-BRED HOLSTEIN

GANZDALE HERD PURE-BRED HOLSTEIN COWS AND HEIFERS FOR SALE.
To move them quickly we will, quality considered, price them right. We must reduce our herd. We also have a few extra choice quality bull calves for sale, sired by that premier sire, Fistic Count. Several of his sons from large producing dams at prices very cheap. CASPAR A. GANTZ, King City, Mo.

HOLSTEIN CATTLE

M. E. HOONE & CO., CAMERON, MO., breeders of Holstein Friesian cattle. Five head of high-class cows for sale, also young stock, both sexes. Herd headed by Sir Johnna, Colantha Fayna 42146, assisted by Sir Korndyke Imperial 53682.

WOODCREST HOLSTEIN HERD.
Registered bulls for sale. Dams A. B. O. or of A. B. O. breeding. On Rock Island, 30 miles east of St. Joseph, 1/2 mile from station. Inspection of herd invited.
S. W. COOKE & SON, Mayeville, Mo.

BULL CALVES always on hand, and worth the price.
E. E. COWLES, Topeka, Kansas.

ROCK BROOK HOLSTEINS

20 bulls ready for service at \$75 to \$100. Bull calves \$40 to \$75. Pedigreed and tuberculosis tested.

ROCK BROOK FARM,
Station B., Omaha, Neb.

Purebred Registered
HOLSTEIN CATTLE
The Greatest Dairy Breed
Send for FREE Illustrated Booklets.
Holstein-Friesian Assoc., Box 114, Brattleboro, Vt.

SUNFLOWER HERD HOLSTEIN-FRIESIANS.

Choice stock, both sexes, always on hand. The best sire in the middle west heads this herd. Visitors and inspection solicited. F. J. SEARLE, Oskaloosa, Kan.

JERSEY CATTLE

I AM OFFERING a few young bulls, some of Oxford's Masterpiece, a son of Oxford Lad; Oxford's Brigadier, a son of Gumboge Knight; Merry Maiden's Golden Lad, a son of Merry Maiden's third son; and Eurybia's Belle. I have but a few of these calves that are ready for service. Will sell them reasonably while they last. Write for prices and particulars. W. N. Banks, Independence, Kan.

COMFORT'S REGISTERED JERSEY CATTLE

Carry the blood of the most noted sires. For quick sale, name choice bulls, nearly all of serviceable age, including two by Imp. Oakland's Sultan, a prize winner on the Island. Others by Gold Boy's Guenon's Lad. Out of high producing dams. Nice colors and good individuals. Write for price and descriptions. F. W. COMFORT, Westmoreland, Kan.

FOR SALE, 3 large, registered Jersey cows, 8, 9 and 11 years, all in calf. Also, 2 young prize winning show bulls. F. J. SHERMAN, E. S., Topeka, Kan.

FOR SALE—4 Jersey cows, 4 3-year-old and 10 yearling high-grade Holstein heifers from heavy milkers. J. L. TREU, Alma, Kan.

7—CHOICE JERSEY BULLS—7
from 4 weeks to 12 months, sired by a son of the noted Sultan Jersey Lad and out of excellent dams. HENRY E. WYATT, Falls City, Neb.

LINSOTT JERSEYS

Only Register of Merit Herd in Kansas. A few bulls of serviceable age, sired by a Highly Commended first prize winner of Island of Jersey, out of tested cows.
B. J. LINSOTT, Holton, Kan.

GOLDEN RULE JERSEY HERD.

Headed by Omer's Eminent 85865. Choice bull calves for sale.
JOHNSON & NORDSTROM,
Clay Center, Kan.

JERSEY CATTLE

Your Choice—1 bull, coming 2 years, by Beatrice Stockwell; 1 7 months old, by Omer's Eminent, dam Guenon's Belle M. test of milk 8 per cent butter fat. Heifers and cows from 6 months to 6 years, mostly Golden Lad and St. Lambert blood. S. S. SMITH, Clay Center, Kan.

RED POLLED CATTLE

RED POLLED BULLS FOR SALE.
Three yearlings, weighing 800 to 1000, get recorded. During January 1912 each. Chance of a lifetime. Beef and milk qualities combined. Herd bull weighs a ton. Bulls ready for service. September O. I. C. boars for sale. MILTON PENNOCK, Route 4, Delphos, Kan.

RED POLLED CATTLE.
The champion beef and milk producer of the age; bred and for sale by the undersigned. Write for prices or come and see the red beauties.
J. E. KESER, BIGELOW, KAN.

RED POLLED CATTLE

The only dual purpose cattle and the most profitable for the farmer. Choice bulls for sale.
U. E. HUBBLE, Stockton, Kan.

AULD BROS. RED POLL CATTLE.
Herd numbers 50, headed by Prince, a ton bull in condition; 10 choice young bulls and a few cows and heifers for sale; farm one mile from town.
AULD BROS.,
Frankfort, Kan.

FOSTER'S RED POLLS.
Choice bulls and heifers priced reasonable.
C. E. FOSTER, R. E. 4, Eldorado, Kan.

SHORTHORN CATTLE

GREENDALE SHORTHORNS.

Double Champion (by Choice Goods) at head of herd. Six good red bulls from 16 to 25 months old for sale cheap to get the room for winter. Also, have a select bunch of calves.

ED GREEN,
Florence, Kansas.

NEW BUTTERGASK SHORTHORNS.
Herd headed by Snowflake's Stamp and Snowflake's Star, the latter the cup winner at the 1911 Mitchell County State-Wide Fair. Straight Scotch and Scotch-topped bulls for sale.
MEALL BROS., Props., Cawker City, Kan.

C. J. WINGER, POLO, MO.
Breeder of high-class, dual purpose Shorthorns. One yearling bull and 17 cows of breeding age, for sale. Some with calves by side. A milking herd that tests high, with beef qualities. C. J. WINGER, Polo, Mo.

GLEN HALL SHORT HORN HERD
Headed by Choice Prince, by Prince of Tebo Lawn and out of Good Lassie by Choice Goods. 5 choice red bulls in age from 10 to 14 months. Herd header, Prospects.
JOHN O'KANE, Blue Rapids, Kan.

TENNEHOLM SHORTHORN CATTLE—
Bred for beef and milk; breeding as good as the best; of Scotch and Bates lines. We use them as dairy cows and find them very profitable. A few young bulls and some females for sale. Write E. S. Myers, Chanute, Kansas.

TO CLOSE OUT

Our registered Shorthorn herd we offer 45 head cows, bulls and calves. Prices and breeding on request.

THE DEMING RANCH
Oswego, Kansas

POLAND CHINAS**FESSEMEYER'S A WONDER OFFERING.**

Eight litters fall pigs, sired by A Wonder. Will book orders for both boars and gilts. Ten spring gilts. Gritters and Allbrook breeding, bred to A Wonder. Fifteen A Wonder spring and fall gilts bred to the great young boar, Big Joe. All for sale at private treaty. A great offering of A Wonder pigs. Description of stock guaranteed. H. FESSEMEYER, CLARINDA, IOWA.

DEAN'S MASTODON POLAND CHINAS.

A number of 300-lb. fall boars now ready. They are the big, mellow kind, with 7% or 8% inch bone. To move quick, will sell at from \$30 to \$35. Also an extra lot of spring gilts and boars, will weigh 200 lbs. A number of herd headers. Can sell you young pigs if you want to save express. Offering sired by Mastodon Price and Columbia Wonder. CLARENCE DEAN, Weston, Mo. Phone, Dearborn, Mo. R. R. Station, New Market, Mo.

BIG HADLEY, BIG HUTCH AND EXPANSION BLOOD

Predominate in my herd. Herd boars: Hutch Jr. by Big Hutch and King Hadley 2d by Big Hadley. Among sows are Grannetta, litter sister to Bell Metal; Pan Princess, weight 725 lbs.; Mollie S., 750 lbs., and Bess Corwin, the dam of Expansion See, the biggest boar ever owned in the West. 90 choice pigs farrowed to date. Visitors always welcome.

C. W. JONES, Solomon, Kansas.

LONGVIEW POLANDS.

Herd boar young Mastiff. The first and grand champion at Topeka, Kansas, State Fair, 1910. A few choice spring boars and gilts for sale, all large type. Priced reasonable and guaranteed. D. M. GREGG, Harrisonville, Mo.

MADISON CREEK POLAND CHINAS.

Twenty choice spring boars of strictly big type. Low prices in order to make room for fall pigs. J. L. GRIFFITHS, Riley, Kan.

FOR SALE.

20 choice Poland China summer and fall boars. The big, smooth kind. Priced to sell quick. Herd headed by Grandeur and Blain's Wonder Son.

MATT ALTON, Erie, Kansas.

10 - Poland China Spring Boars - 10

11 fall yearling gilts, 6 tried sows for sale. Good, smooth, heavy boned individuals. A. L. ALBRIGHT, Waterville, Kan.

LAMBERT'S CORRECT TYPE POLANDS.

Ten ribbons at Topeka State Fair. The big, smooth kind. Pigs or bred sows for sale. J. L. LAMBERT, Smith Center, Kan.

M'S GIANT WONDER \$3150.

300 pounds, 11-inch bone as a yearling. For Sale—Choice tried sows bred to this great boar for March farrow.

JOHN T. CURRY, Winchester, Kan.

HOPPE'S BIG TYPE QUALITY POLANDS.

The best of the big type breeding; fed for best results. Bred sows and gilts for sale.

W. V. HOPPE, Stella, Neb.

DISPERSION SALE.

I offer at private treaty my entire herd of Poland Chinas, young boars, tried sows and gilts, open or bred to Giant Monarch, the king of big type boars. Some great ones at a bargain. Write.

W. C. MILLIGAN, Clay Center, Kansas.

MOONEY CREEK POLAND CHINA HERD

The biggest of the big. Wonder and Mastodon strains. Herd headed by Big Osborne. I have bought seed stock from the best herds in Iowa and have new breeding for Kansas. Have an extra fine boar for big or medium type breeder. Also fine gilts for sale. Write for information. Visitors welcome.

JOHN W. NOLL, Winchester, Kansas.

GREEN LAWN HERD

The big type Poland Chinas. Herd headed by Major B. Hadley, the Grand Champion at American Royal, 1911. Also Young Hadley and Big Spot. A grand lot of fall pigs for sale, priced to sell.

A. J. EHRHART & SONS

Adrian, Mo.

BLUE VALLEY EXPANSION 54414.

A Grand Individual, With Massive Bone and Length.

L. C. WALBRIDGE, Russell - - - Kansas.

20—Choice Big Type Poland Boars—20

Vaccinated and just right for hard service. Bargain prices for quick sale. Also 10 young Shorthorn bulls and a few cows and heifers.

S. B. AMCOATS,

Clay Center, Kan.

POLANDS.

Fuller Brothers' prize Polands. Grand champion sow, Sedalia, 1911, and other prize winners in herd. Storm Center, sire of champion sow, and Big Tecumseh, at head of herd. We also breed Hereford cattle and Scotch Collies. FULLER BROS., Humphreys, Mo.

LIMESTONE FARMS breeds Shropshires, Big Poland Chinas, Buff Orpingtons, S. C. Brown Leghorns, Indian Runner ducks and Chinese geese. Choice cockerels for sale worth the money. M. GOTTSWILER, Clarksdale, Mo.

FOR SALE—Fullblood Poland China boars and sows; good individuals; pedigrees furnished; no cholera. Priced reasonable. GEO. A. SLATER, Cleveland, Kan.

THE POLANDS THAT TAKE

FOR SALE—At low prices, several of Toulon Prince's spring boars. Write me quick. L. E. KLEIN, Zeandale, Kan.

POLAND CHINAS**VINECROFT POLAND CHINAS**

Bred for quality and size. Address, ALVIN LONG, Lyons, Kan.

BRED GILTS \$25 to \$30 EACH.

20 fall gilts, big and smooth. Big type. Good time to start herd. Write quick. F. D. YOUNG, Winchester, Kan.

WALNUT GROVE FARM

still has a few choice spring boars for sale. Sired by First Quality 6025 and out of Expansion and C's Perfection dams.

JAMES ARKELL, Junction City, Kan.

MAMMOTH HADLEY POLAND CHINAS.

60 choice spring pigs sired by Mammoth Hadley and Grand Model, two as good sires as can be found in the west; dams of pigs carry the blood of nearly all big sires.

GEO. W. SMITH, Burchard, Neb.

HARTER'S BIG KIND POLAND CHINAS.

Headed by Mogul's Monarch, Prince Hadley, and other good sires. Choice breeding stock always for sale.

J. H. HARTE, Westmoreland, Kansas.

W. Z. BAKER, LARGE TYPE POLAND CHINAS

A few choice boars, bred sows and gilts for sale, bred to King Hadley, John Ex. and John Long 2nd. Prices right.

W. Z. BAKER, Rich Hill, Mo.

HAMPSHIRE HOGS.**100 HAMPSHIRE SOWS,**

spring gilts, fall gilts and mature sows. Sired by sons of champions; some of them bred to a winner of the blue at the Ohio State Fair this year, the rest bred to sons of champions. Best of breeding and best of individuals, and priced right down to bed-rock. Write us.

WOODLAWN FARM CO., Sterling, Ill.

HAMPSHIRE thoroughbreds from prized stock, fine sows and gilts exceptionally cheap. Duroc Jersey out of the best blood possible. Brood sows and gilts, also some exceptionally good male hogs. All registered. Priced to sell. The Springdale Stock Ranch, Concordia, Kansas.

HILLWOOD STOCK FARM

High Class Hampshires—Herd Headed by the Celebrated boar Erlanger 1000. High class young boars for sale. Will also sell Erlanger.

J. Q. EDWARDS, Platte City, Mo.

HAMPSHIRE SWINE.

Some fine spring boars and a fine lot of summer pigs, all registered stock.

T. S. BURDICK, Route 2, Inman, Kansas.

I STILL HAVE ON HAND a number of fall pigs for sale. Will weigh from 50 to 90 pounds; nicely marked; can mate them in pairs not akin; good enough for the foundation of a herd; out of prize stock. Price \$10 each. G. S. LAWSON, Ravenwood, Nedaway County, Mo.

BERKSHIRES**BERKSHIRE HOGS.**

Guaranteed choice breeding stock of very fashionable lines. Either sex. Pigs, \$15; of breeding age, \$25; very extra choice, best quality, \$35. Registered. Crated 1 c. b.

R. J. LINSOTT, Holton, Kan.

RENO BERKSHIRES

for sale. All sired by the grand champion at Kansas State Fair, 1910; 15 spring boars and 15 spring gilts, priced. Write at once.

T. E. CLARKE, Medora, Kan.

BERKSHIRE FOR SALE.

One boar, two bred sows, one fall boar; also fall gilts for sale. Prices right to move them.

J. C. STARR, Vinita, Okla.

DUROC JERSEYS

GOLDEN RULE DUROC HERD: Dreamland Col., the best Col. boar in the west, in service, assisted by J. C's Defender, by the noted Defender; 100 choice spring pigs for sale in pairs or trios not related; bed-rock prices. LEON CARTER, Asherville, Kan.

ELDER'S HIGHLAND DUROCS. Headed by G. C's Col. and F. B's Col. Sows contain the blood of Ohio Chief and Crimson Wonder. Stock always for sale. FRANK ELDER, Green, Kan.

100 DUROC JERSEY PIGS PRIVATELY.

Richly bred boars and gilts in pairs not related at prices to move them.

O. A. TILLER, Pawnee City, Neb.

L. R. WILEY'S STALLIONS

Imported and Home Bred Percherons, Belgians and Shires. All Percherons are Registered in the Percheron Society of America.

50—Head STALLIONS AND MARES—50

Including an unusual variety from which to select. All we ask is a chance to show the goods. You'll say the price is right, and buy. Write today.

L. R. WILEY, EMPORIA, KAN.

Breeding Farm, Elmdale, Kan. Sale Barns, Emporia, Kan.

40 STALLIONS AND MARES.

My barn is full of good Percheron, Belgian and Shire Stallions. Priced to sell. I mean business. Come and look them over. If you want good horses, we can deal. My prices are from \$400 to \$1,000. Come and see me before you buy. Then be your own judge. Barn right in town.

Joseph M. Nolan, Paola, Kan.

Imported—Percheron—Stallions

At the 1911 shows we won Championship on both Percheron and Shire Stallions, at the American Royal, the Inter-State and the Missouri State Fairs. All our horses are imported. We sell as low as anyone on earth, quality considered. Our guarantee and insurance are the best known.

PERCHERON IMPORTING CO., South St. Joseph, Mo.

Percheron Stallions and Mares

A few choice stallions and several brood mares safe in foal. Matched teams from 2 to 5 years old. Come and see me.

F. H. SCHREPEL, Ellinwood, Kan.

PERCHERON STALLIONS

Priced to sell—from yearlings to three-year-olds. All dark colors, heavy bone and large size; plenty of quality. The best of breeding. All registered in Percheron Society of America. Come and see me.

J. W. BARNHART, BUTLER, MO.

**PERCHERON, BELGIAN, GERMAN COACH STALLIONS AND MARES.**

Imported and home-bred. Will sell our 1911 champion and other prize winners. Write or come. I make good. Mention this paper.

PIONEER STOCK FARM, J. W. Waddill, Prop., BRASHEAR, MO.

REGISTERED PERCHERON STALLIONS

Young registered stallions, from weanlings to 4-year-olds, outstanding in bone, size and quality. All registered in Percheron Society of America. Write for bargains.

WILL F. HOOKER, Hamilton, Caldwell Co., Mo. On Main line of C. B. & Q. Railway, 60 miles east of St. Joseph.

DUROC JERSEYS**DUROC JERSEY SPRING BOARS**

Up-to-date breeding, plenty of quality and good colors. Priced for quick sale.

W. H. SALES, Simpson, Kan.

25—DUROC JERSEY BOARS—25

Sired by Ohio Col., grand champion of Kansas, 1910. Chiefs Orion by Ohio Chief, third prize aged boar Kansas, 1909. Blue Valley Chief, by the \$4000 Valley Chief, out of sows of the very best breeding. Priced to sell. We have pleased others, we can please you.

THOMPSON BROS., Garrison, Kan.

25—DUROC JERSEY SPRING BOARS—25

By such sires as King to Be and G's Col. out of the greatest sows of the breed. Also two fall boars sired by Neb. Wonder, and a few spring gilts. Will not hold fall sale.

GRANT CHAPIN, Greene, Kan.

B. & C. Col. and Bells Chief

Young boars of serviceable age. Best blood lines. Bred sows and gilts, and fall pigs, either sex.

SAMUEL DRYBREAD, Elk City, Kan.

100 DUROC-JERSEY SOWS,

spring gilts, fall gilts and mature sows. Sired by sons of champions, bred to sons of champions. An extra choice lot. Priced from \$20 up. Write us.

WOODLAWN FARM CO., Sterling, Ill.

AUCTIONEERS**R. L. HARRIMAN
LIVE STOCK AUCTIONEER
Bunceton, Missouri**

You run no risk to patronize persons or firms whose advertisements appear in KANSAS FARMER.

AUCTIONEERS**FOR THE BEST RESULTS**

employ Zaun. He works for the best breeders in America. Best of reference furnished.

FRANK J. ZAUN, Independence, Mo.

C. F. BEARD

Live Stock Auctioneer, Parsons, Kan. Continually selling for the best breeders of several states. Write, wire or telephone. Home phone 2702.

COL. N. S. HOYT

MANKATO, KANSAS.

Livestock Auctioneer. Big Horse and other Stock Sales a specialty. Terms reasonable. Special service to breeders.

T. HOS. DARCEY

Real Estate and Live Stock Auctioneer. Eighteen Years' Experience. Offerle, Kan.

F. E. KINNEY

Oketo, Kan., will make pure bred stock or farm sales anywhere in Kansas or adjoining states; 15 years' experience; best of references furnished. Write or phone for dates.

T. E. DEEM, AUCTIONEER

Auction sales of pedigreed stock made everywhere. Write me about your sale. I have an open date for you. Address, Cameron, Mo.

LAFE BURGER, Live Stock Auctioneer, Wellington, Kansas—15 years of success in selling pure bred live stock.

W.C. CURPHEY, Salina, Kansas
LIVE STOCK AUCTIONEER
Write, phone or wire me for dates.

MONT ORR

Live stock and farm sales auctioneer; block and ring work solicited. Belleville, Kan.

T. E. GORDAN, Waterville, Kan.

Real Estate Auctioneer. Will cry sales in any state; terms reasonable; write for plan.

FRANK IAMS' PARIS WINNERS



Are the real "medal winners"—"show horses of note"—"sensational" "ripe peaches" from the "select 400." Big, Classy, "Peaches and Cream"—"Black Boys." The "Iams Brand" of Drafty "top-notchers." Iams' 1911 Importation of Percherons and Belgian stallions and mares have arrived by "Special train." "Ikey Boy," smile sweetly, and hundreds of Iams' satisfied customers "will sit-up-and-take-notice" that Iams, the "King Pin" horse importer, is still "doing business" at the "old stand" (and good for 50 years more). Iams is "pushing" his horses to the front. The big "Peaches and Cream" "Boys and Girls" are attractions that can't be overlooked. Iams mesmerizes buyers with "real Drafters," at "Bargain prices," and having the "Horses as advertised," Iams' "competitors" and "Hammer Knockers" are "boosting Iams" by their "Knocks," until now he is known as the "Millionaire Horseman," and on "Easy Street," and growing fast. "Ikey"—"Come-on-along—Come-on-along"—and sing Iams' song. He is selling these "aristocratic," fancy "Black Boys" cheaper than ever—or better horses for less money—\$1,000 and \$1,400 (few little higher). Iams has

120 PERCHERON and BELGIAN STALLIONS and MARES 120

They are "Models"—"Humdingers." They are 2 to 5 years old, weigh 1,700 to 2,500 lbs.; 80 per cent Blacks, 50 per cent Ton Horses. All "approved and stamped" by European government. Registered in popular stud books of U. S. Many "prize-winners" and "gold medal horses." Big drafty "top-notchers," with big bone, quality, style, finish and action to burn. They are "Eyeopeners." Larger and better horses than seen elsewhere. Big "business propositions" that make "the wheels work fast" under a "buyer's hat." "Georgie dear, Iams made a 'Big Killing' by buying his horses in Europe in October, 1911. "Dry weather," "bad crops," "close money" and "Iams' cash" caused the "prize-winners" and "tops" to be thrown on the market for a "good selling." Iams "cut the melon" and bought the "rippers" at "knockout prices." Iams will give his customers the benefit of his "good buy."

IAMS' "GET RICH WAGON" and SAVE \$1,000

on a "top stallion" (and you wear the diamonds). Iams is a "big fly in the ointment" in the horse world. "He keeps the Gang guessing." "He is up-to-the-minute." Iams' "daily Horse Show" will be a day of "profit and pleasure," and worth going 2,000 miles to see. Iams sells only "prize-winners" and best big drafters. He sells no "International tail-ends." No "Auction stuff" or "peddlers' horses." No American so-called full-bloods with questionable breeding (only imported horses). Iams has the "crack stallions and mares" you "read about." Buy horses of Iams and you won't "get stung" in horse or price. "Dolly D," waltz me around once again "Ikey," land me at Iams' Box Office and Importing Barns. Full to "the roof" with "Black Boys" (and all must be sold). Reduced prices. All the world knows Iams and his "Peaches and Cream" horses. 1911 was Iams' best business year. 1912 promises to be a bumper year to Iams and his customers. He saved \$300,000 to stallion buyers in 1911. Watch "Iams' smoke" in 1912. Iams' 30 years of successful business makes him a safe man to do business with.

IAMS SELLS HORSES "ON HONOR." A BOY OR A LADY

can buy as cheap as a man. Iams, the "square deal" horseman, makes every statement in ad. or catalog good—or you get the \$500 he hangs up. Iams guarantees to sell you a better Imported stallion at \$1,000 and \$1,400 (few higher) than are sold to stock companies for \$2,500 to \$5,000. Imported mares, \$700 and \$1,000. Iams gives 60 per cent Breeding guarantee; pays freight on horse and fare of one buyer. He can furnish \$1,500 insurance at 8 per cent. IAMS buys and sells every stallion himself. Saves buyers \$1,000 in commissions and middlemen's profits. He buys stallions by "trainload." He speaks the languages—"Slick Salesman" a commission to help "do you." He has no 2 to 10 partners—to share profits. He "pays cash" for his horses—and sells "Top-notchers" by "hot advertising" and having "the goods." "Big Ikey," leave your "happy" home and buy a "Top" stallion pair of Imported mares (of Iams) that bring colts that sell at \$500 each. "Papa," don't let those "Auction men" "Hand You a Lemon" in one of those "so-called" "American full-bloods" of Questionable breeding. Buy an Imported horse of Iams, the "reliable horseman." Then we will "all wear diamonds." Iams' "selling clothes" fit all buyers. Write for Iams' million-dollar horse catalogue. Iams won't let you go without a Peaches and Cream stallion or mare. "He sells the tails off them." Iams' guarantees are backed by "half-million dollars." References—1st Nat'l and Omaha Nat'l Bank, Omaha; Citizens State, 1st State and St. Paul State Banks, St. Paul, Neb.; Packers' Nat'l Bank, South Omaha. Iams buys big ad. space because it is cheaper than flannel-mouthed horse salesmen.

ST. PAUL, NEBRASKA

Wallace's Annual Sale of Bred Sows

From His Great Herd of 500 Mammoth Poland Chinas

AT BUNCETON, MISSOURI, ON FEBRUARY 1st, 1912

In this sale I am selling 60 bred sows that are, in my opinion, the most valuable offering of big type Poland China sows ever put up at auction in our country. They are not only tops from my herd, but they are the very cream of big type breeding and individuality. They are all bred and showing down, safely in pig to my two great herd boars, GRAND LEADER and EXPANSION WONDER. No hog breeder in America can lay claim to two better boars or a stronger herd of brood sows. Just come and see for yourself. The offering consists of 30 splendid, young, tried sows that have raised one litter; 20 big yearling gilts, and 10 big fancy spring gilts. The fall and spring gilts are mostly sired by Grand Leader, and are bred to the champion Expansion Wonder. When you see them you will say Grand Leader is the king of sow getters and the greatest of the Grand Looks.

These sows are not corn fattened, but have been fed a judicious, balanced ration that will insure best results at farrowing time. The herd is in the pink of condition and health. No disease in my section.

Catalogues will be ready January 15. Write me to send you one. Come to the sale. Make me happy. Meet a live bunch of hog men, and let us start the February sale season off in good shape.

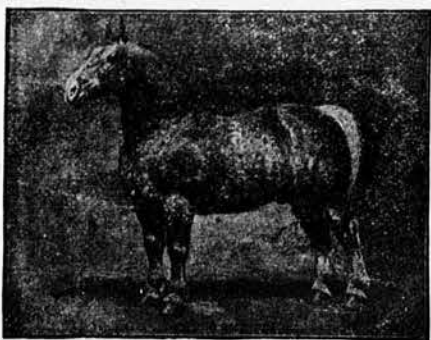
AUCTIONEERS—HARRIMAN AND BEAN.

W. B. Wallace, Bunceton, Mo.

100 Head of Imported and Home-bred Stallions

and mares of the different breeds, 50 head of coming 3-year-olds, big boned, American-bred, pasture-raised stallions; the kind that give satisfaction, the kind that breed.

Reference: Any bank in Grand Island, Cairo or Bridgeport, Neb. History of the horse and large calendar sent free to horsemen. NORTH-ROBINSON DEAN CO., Grand Island, Neb.



LOOK AT THIS PEDIGREE

Ruby Critic	Glendale Critic
Royal Critic	American Royal
Royal Blossom 5th	

SOWS and gilts by this great boar averaged \$116.00 at his old home last winter. What can you afford to pay for sows and gilts bred to a sire like that at my bred sow sale February 15. Let me tell you about them. Address, mentioning this paper, R. T. MILLER, Table Rock, Neb.

50—PERCHERON STALLIONS AND MARES 50

Bishop Brothers have 25 big boned stallions that weight 1,700 to 2,100 pounds that they can and will sell for less money than any firm in the business, quality considered. Write us what you want. BISHOP BROS., TOWANDA, KAN.

LIMESTONE RIDGE FARM, CAMERON, MO.—Farm 5 1/2 miles south of Cameron, 25 miles east of St. Joseph and 54 miles northeast of Kansas City, on the Burlington and Rock Island railways. Missouri Jacks, Percheron and Saddle Stallions, for sale at reasonable prices. Extra good Jacks for Jennets. All stock old enough for service, has been tried and will be guaranteed breeders. No trouble to show stock. P. O. address, ISAAC C. LOHMAN, R. F. D. No. 3, Turney, Clinton County, Mo.

PUBLIC SALE of POLAND CHINAS

**40 HEAD - BRED SOWS AND GILTS - 40 HEAD
At PILOT GROVE, MO., FEB. 2, 1912**

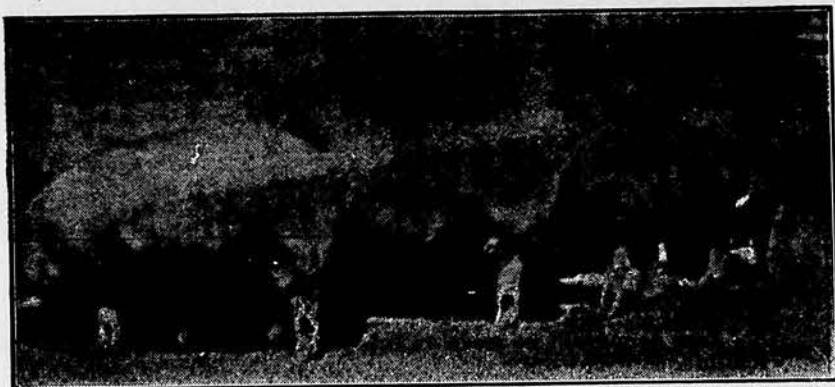
Ten tried sows, bred to Mt. Vernon Hadley; 2 tried sows, bred to Mt. Vernon Long King; 1 tried sow, bred to Harriman's Look; 8 fall gilts, bred to Mt. Vernon Hadley; 5 fall gilts, bred to Harriman's Look; 4 fall gilts, bred to Mt. Vernon Long King; 2 spring gilts, bred to Harriman's Look; 2 spring gilts, bred to Mt. Vernon Hadley; 6 spring gilts, bred to Mt. Vernon Long King. I will sell 6 extra good spring boars, 2 sired by Grand Look, Jr., 2 by Expansion Wonder, 2 by Pilot Defender. The fall and spring gilts are sired by Big Designer and Pilot Defender, and the tried sows by Bell Metal, Gov. Hadley, Grand Expansion, Major Look, Designer, Kansas Wonder and Good Metal. All are the large type breeding, and are the pick from my herd. Send for my catalog and come to my sale. I guarantee a good offering and you can make the price right. Remember the date is February 2—the next day after W. B. Wallace's at Bunceton, Mo. You can attend two sales with one expense. Come and spend a day with us.

BERT HARRIMAN,

PILOT GROVE, MO.

BAKER BROS.' Poland China Bred Sow Sale At BUTLER, MO., SATURDAY, FEB. 3, '12

60 - BRED SOWS AND GILTS - 60



A Bunch of Fall Yearling Gilts that Will Be Sold in this Sale.

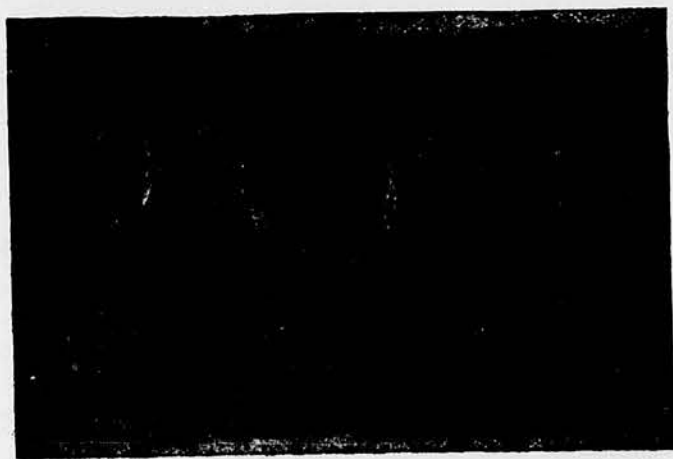
Twenty tried sows, safe for early litters; 20 fall yearling gilts, bred to good boars for March litters; 20 large spring gilts, sired by such boars as Big Hadley, King Hadley, John Ex., King Ex., and several other large type boars. This positively the best offering we have ever sold and we guarantee every one to be right. They are bred right and you make the price right. Catalogues are ready to mail out. Send for one and come to our sale. If you cannot attend, send bid to O. W. Devine, representing Kansas Farmer, who will buy for you. For catalogues, address,

W. A. & W. Z. BAKER, BUTLER, MO.

**The North-Robinson-Dean Co.
GRAND ISLAND, NEBR.**

GREAT ANNUAL SALE

Wednesday, January 24th, 1912



We will hold on regular annual sale of Imported and Home-bred Percheron, Belgian and Shire Stallions and Mares upon the above date, and assure prospective purchasers that no public sale ever held by us has offered such an assortment of good, big stallions and brood mares as this one will be. Twenty-five head stallions, 25 brood mares, all of proper ages, 1 to 5 years. We give a 60 per cent breeding guarantee with stallions and guarantee every mare to be a brood mare. We will sell them all; no reservation and no limit at this sale—the highest bidder gets the horse.

Our honest public sales have established for us an enviable reputation, and we will endeavor to protect it. The large number we will sell offers an opportunity for the dealer and the farmer alike to purchase horses to good advantage. **COME AND SEE.** Remember the place and date—**GRAND ISLAND, NEB., JANUARY 24, 1912.**

We will answer all letters asking for information regarding this offer. Sale will be held in the Bradstreet & Clemens Company Sale Pavilion, rain or shine.

**THE NORTH-ROBINSON-DEAN CO.,
Grand Island, Nebraska.**

Auctioneers—Col. Z. S. Branson, Col. W. I. Blain.

Champion Duroc Bred Sow Sale

AT GLENWOOD, MO.

Friday, January 26, 1912

50—HEAD BRED SOWS—50

The offsprings of noted Grand Champions. The greatest offering of the season. Twenty-eight tried sows, 7 fall gilts and 15 head of spring gilts—the outstanding tops of our large herd. Every animal in this offering is bred in the purple. They are not only bred right, but are high-class individuals. A number of them are bred to Ohio Colonel, grand champion of Kansas, 1910; others to Valley King Again by Valley King, champion Iowa and Nebraska, 1911. Among the sows offered will be Model Queen 4th by Golden Model, dam Miss Hope, a full sister to Model Queen, the grand champion sow Kansas and Nebraska, 1910, and said by competent critics to be the best Duroc sow living; Crimson Golden Rod, sired by Crimson Wonder Again, dam H. A.'s Queen; 6 fall gilts sired by Waveland, champion Indiana, 1908; Defender, Ohio Chief and Blue Ribbon bred sows; 2 Model Queen gilts sired by Prince of Cols. **REMEMBER, THAT THIS OFFERING WILL BE MADE UP OF REPRESENTATIVES OF FIFTEEN GRAND CHAMPION BOARS.** Glenwood Junction is on main line of Wabash R. R., between Des Moines, Ia., and St. Louis, and on Keokuk and Red Oak branch of C. B. & Q. R. R. (twelve passenger trains a day.) You can come at almost any hour of the day. Write us for catalogue. W. J. Cody will represent Kansas Farmer at this sale. All bids sent to fieldmen and auctioneers in my care will be treated fairly.

Model Queen Herd Duroc Jersey Swine.

E. W. DAVIS & CO., GLENWOOD, MO.

Auctioneers—Fred Reppert, N. G. Krashel, W. M. Putman.

ELDER'S BIG DUROC JERSEY AND LAND DISPERSION SALE

**At GREEN, (Clay Co.)
KAN., WED., FEB. 7, '12**

80 HEAD OF REGISTERED DUROC JERSEYS,
consisting of 30 tried sows and fall yearlings, 40 spring gilts, 5 spring boars and 5 herd boars, including the noted G. C.'s Col., F. E.'s Col. and a good son of Neb. Wonder named Neb. Wonder 2nd.

The tried sows include some of the greatest sows of the breed, and are, for the most part, daughters of King of Cols. 2nd, Model Chief Again, G. C.'s Col., G. M.'s Col., Tatarrax and King Wonder.

The gilts and spring boars were sired by G. C.'s Col., F. E.'s Col., Strong King by Crimmon Wonder Again, Elder's Wonder and Carl's Critic.

The sows and gilts are bred for February, March and April farrow to five different boars, which comprise those already mentioned.

I paid long prices for the foundation of this herd, and think it is conceded that there are few better breeding herds in existence today. But other business makes it necessary to disperse it at this time. I have sold off from time to time the older sows, so this sale will contain none but sows in their prime. Write early for catalog.

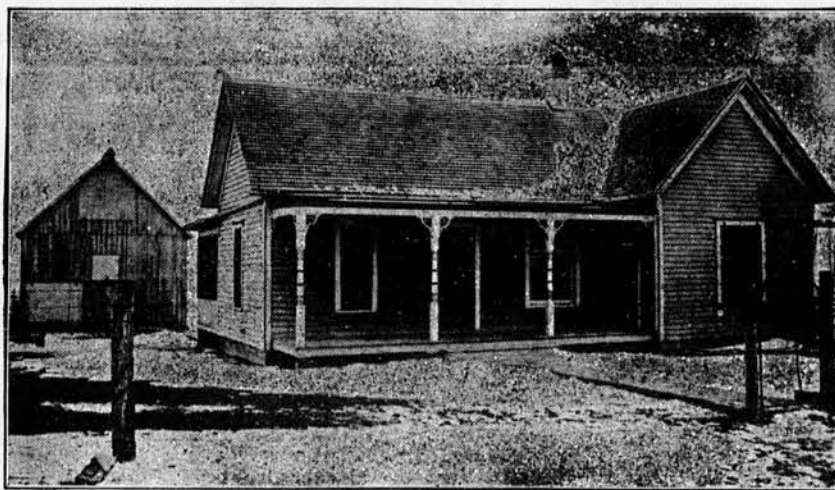
Frank Elder, Green, Kan.

Auctioneers—Frank Zaun, James T. McCulloch.

IMPROVED HOG FARM AT PUBLIC AUCTION.

I wouldn't like to rent the home of old King of Cols. 2nd and G. C.'s Col. to some scrub fellow that would let the pens grow up to weeds and the hog houses become the abiding place of bats and owls, so I am going to sell it to some good farmer or breeder, the price to be fixed by competitive bidding, just as it is on the hogs.

The farm contains 40½ acres, and two 50-foot lots where the residence stands. The house has 5 rooms, water in house, cellar, etc. Barn for 12 horses, with mow for 15 tons of hay. Hog house 24 by 36, with granary attached for 1,500 bushels; big cow barn and hen house. All under hog fence; 20 acres alfalfa, rest in alfalfa until last spring; practically new farm land. Plenty of young fruit trees.



PICTURE OF HOUSE AND BARN ON THIS FARM.

Green is a town of 400 inhabitants, good graded schools, three churches, City hall, etc.

Easy terms will be made on this property. Write for circular giving full information.

Jesse Johnson will attend this sale. Send all bids to him.

GRIFFITH'S

MASTODON POLAND China Bred Sow Sale

At Farm, 4 Miles Southwest of Riley and 7 Miles Southwest of Leonardville, Kan.

Monday, Feb. 5th, 1912

40—HEAD OF CAREFULLY SELECTED INDIVIDUALS, NEW BLOOD FOR THESE PARTS—40

3 Tried Sows—32 Spring Gilts—5 Summer Boars.

Females bred for March and April farrow to Big Bone Pete, bred by Peter Mouw and John Osborne by Big Osborne by Osborne Perfection, the 1,200-pound boar. His dam was Lady Mastodon 14th, a sow of note. The tried sows are mostly by a big boar, Med. Colossus, he by Longfellow, dam by Prince Wonder. The gilts were mostly sired by Commander 55105, by Expander, he by Prince Wonder. The dam of Commander was the great sow, Star Miss, by Orange Price, all of Mouw's breeding. A large per cent of the gilts are out of the noted big three sows now in the herd. They are noted sows individually and sired by Mastodon's Best, bred by W. W. Wheeler, of Harlan, Ia. Their dam had a 11-inch bone, and was a daughter of Price Wonder.

Free transportation to and from the farm sale day. Write for catalog. If unable to attend, send bids to fieldmen or auctioneers.

J. L. GRIFFITHS, RILEY, KAN.

Auctioneer—James T. McCulloch.

Jesse Johnson will attend this sale. Send bids to him in my care.

THOMPSON BROTHERS

BIG SMOOTH POLAND China Bred Sow Sale

—In Pavilion At—

Marysville, Kan., Tues. Feb. 6

10 TRIED SOWS, BRED FOR FEBRUARY, MARCH AND APRIL FARROW. 30 SELECTED GILTS,

mostly by Big Chief by Chief Hutch, he by Hutch, Jr. His dam, April Maid, was full sister to Utility, the sow that produced the noted litter for Halderman last year. Others are bred to Big Monarch, by Mogul's Monarch and out of Big Lucy; a few to Bell Boy, by Bell Expand, by Bell Metal. Among the tried sows will be daughters of Captain Hutch, and out of Maud Perfection, the sow that produced our \$200 gilt. A large number of the gilts were sired by Big Tom, a good son of our former herd boar, Big Hutch; others by Monarch. They are out of splendid dams, among them daughters of Captain Hutch, Flashy Metal, Blue Valley Look. One choice gilt by Bell Metal and a few by Mogul's Monarch. The offering will be all right for size and quality. We have marketed the culls and will offer nothing that is not worthy. We invite all of our old customers, and everyone else, to attend, either as buyers or visitors. Write any time for catalog.

Thompson Bros., Marysville, Ks

Auctioneers—James T. McCulloch, F. E. Kinney.

Jesse Johnson will represent Kansas Farmer. Send sealed bids to him in our care.

COTTINGHAM & SONS 16TH ANNUAL SALE

50 Horses 50

12 Head of Pure-bred Shorthorn Cows and Bulls at
Their Sale Barn,

McPHERSON, KANS.,
Thursday, Feb. 1st, 1912

We will sell 5 Pure-bred Percheron Mares, bred to imported horse; 3 Pure-bred French Draft Mares, bred; 1 Registered Percheron Stallion, weighed 1980 last spring, of good, splendid bone and conformation 7 years old; 1 Registered Morgan Stallion, a show horse, has always taken first wherever shown, took first in his class at Hutchinson State Fair two years ago; 40 head of high quality Mares and Geldings, weight 1400 to 1600 lbs., most all young, and mares bred to pure-bred horse. I have several marketable horses in this offering, giving shippers a rare opportunity to purchase at their own prices. Everything offered will be sold without reserve. No postponements on account of weather. Sale will be held under cover. Terms of sale: Nine months' time at 7 per cent from date.

W. H. Cottingham & Sons,
McPherson, Kansas

Albert Smith & Sons 12th Annual Bred Sow Sale BIG SMOOTH POLANDS

At Farm, 8 Miles Northeast of

SUPERIOR, NEBR.

Wednesday, Feb. 7, 1912

23 CHOICE FALL YEARLINGS, 5 EXTRA FINE TRIED
SOWS, 14 SPRING GILTS.

An offering of unusual merit. Big, stretchy, smooth and prolific. Bred for February, March and April farrow, to Smith's Big Hadley, Jumbo, Jr., Victor's Model by Big Victor, and out of Oakford Prospect breeding on dams' side. The fall gilts are exceptionally choice ones, 15 of them by Smith's Big Hadley, including a litter of five out of L's Beauty by Chief of Pawnee. A few choice ones by Jumbo, Jr. The tried sows include several daughters of Smith's Big Hadley and Chief of Pawnee. The spring gilts are by Jumbo, Jr., Smith's Big Hadley and Big Sam. The Big Sam gilts are very choice. The offering, taken as a whole, is very uniform, and it is difficult to say anything about different individuals that isn't true of the whole bunch. The tried sows are sows that have proven valuable in our hands and will continue to be profitable for new owners. The catalog gives all necessary information and guarantees, and can be had for the asking. If unable to attend, send sealed bids to Jesse Johnson, in our care, at Superior, Neb. Free transportation to and from the farm. We will also sell two choice registered Shorthorn bulls.

Albert Smith & Sons, Superior, Nebr.

Auctioneer—John Brennen.

Jesse R. Johnson, fieldman for Kansas Farmer.

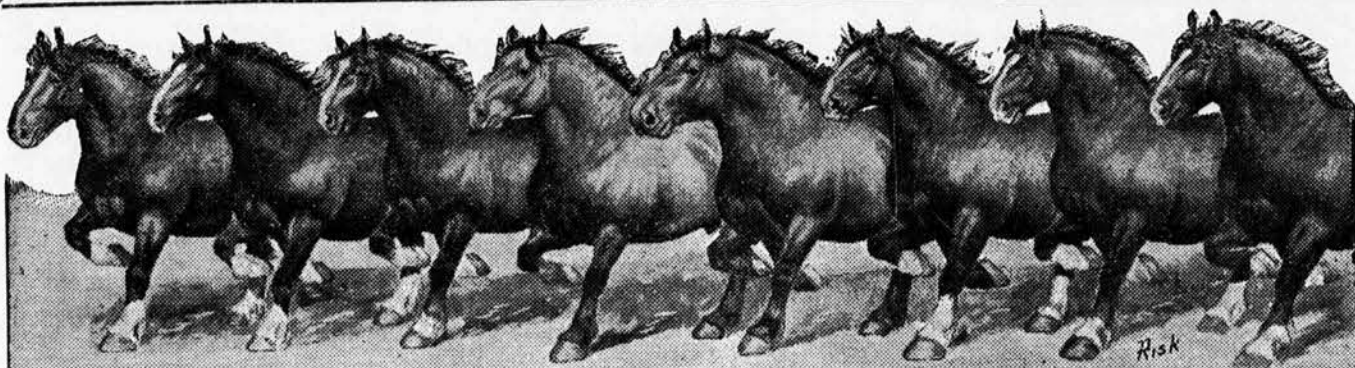
JOHN B. LAWSON'S LONG KING'S EQUAL AND A WONDER JUMBO BRED SOW SALE

AT CLARINDA, IA., TUESDAY, FEBRUARY 6.
45—HEAD OF BRED SOWS—45

Sixteen tried sows, bred to Long King's Equal; a few gilts, sired by old A Wonder and bred to Long King's Equal; balance Long King's Equal gilts, bred to A Wonder Jumbo. Send for catalog. Bids sent to fieldmen or auctioneer, in my care, will receive careful attention. W. J. Cody, fieldman for Kansas Farmer. H. S. Duncan, auctioneer.

JOHN B. LAWSON,

CLARINDA, IOWA



**PERCHERONS
SHIRES
BELGIANS**

**A High
Quality Stallion
is a Profitable Investment**

Come to Lincoln and take home with you the best stallion in our barns. He will make you lots of money. He will command the best mares, command the men who are the best pay and who take the best care of their stock.

We have in our barns at this time the greatest bunch of stallions we have ever been able to buy in Europe in the thirty years we have been in the importing business.

They are smooth, flat-boned, massive fellows, with great quality,

Many of our customers are making one hundred percent on their investment every year. Some are standing as high as six of our stallions and have practically monopolized the colt business in their locality.

style and conformation—with splendid dispositions and color. They were selected from the oldest breeding farms in England, France, and Belgium, and their breeding stands back of them for thirty generations.

Our contract of guarantee is as good as a government bond. Our prices are reasonable.

Send for big illustrated catalog and letters from hundreds of satisfied customers.

Watson, Woods, Bros. & Kelly Co., Box 34, Lincoln, Nebraska, B13

FIELD NOTES.

Last Call for Hangle's Sale.

Duroc Jersey breeders should not overlook the bred sow offering of Peter Hangle of Weatherby, Mo. This sale will be held at Greenwood Stock Farm at Winston, Mo., on January 24, 1912. The offering will consist of 45 head of Col. bred sows. They were sired by Col. B. Jr. 31885 and are bred to Buddy Top 114063—two big, high-class boars of the mellow, easy feeding kind.

Thompson Bros.' Poland China Sow Sale.

The old-time breeders of Kansas and Nebraska and the progressive farmers of several Kansas and Nebraska counties will note with pleasure the fact that the Thompson Brothers, of Marysville, Kan., are again on the job and will hold another of their good bred sow sales in Marysville on Tuesday, February 6. Thompson Bros. achieved much notoriety as being among the first to perfect the type of hog now known all over both the east and west as the big, smooth kind. They bred and developed old Over Chief, Highland Chief, Highland Chief Jr., and a number of other sires that became famous all over the corn belt because they combined great size with smoothness. Some of these boars have won at Nebraska State Fair as high as three times in succession, and their daughters have been among the most valuable brood sows of two states. Big Hutch and Captain Hutch were other boars bred by Thompson Bros., and a large percentage of the sows and gilts that go into this sale will be bred to Big Chief, a Hutch-bred boar. The gilts are, some of them, sired by him, and many of them out of Captain Hutch dams. Other gilts that go in the sale are by Big Tom, a son of old Big Hutch, and Big Monarch by Mogul's Monarch. The Thompson Brothers always were sticklers for good individuality, and while they liked a good pedigree, it must be accompanied by a good hog to be of value. While this firm was practically out of the business for a couple of years, they have their same old breeding, and will at this sale present their usual good offering in the nice breeding condition that those that have attended their sales remember so well. They invite all old patrons and as many new ones as can possibly attend. Write early for catalog, mentioning this paper.

ROCK BROOK FARMS 6th ANNUAL AUCTION Sale of Registered Holstein-Friesian Cattle

TO BE HELD AT OMAHA, NEB.,
TUESDAY AND WEDNESDAY,

FEBRUARY 6 and 7, 1912

This sale includes 60 heifers under 2 years old; 25 heifers 2 and 3 years old, all bred to calve in the spring; 40 cows, 3 to 8 years old, a number of which will be fresh at sale time with a lot of them due soon after sale; 35 bulls of all ages, mostly out of A. R. O. cows.

Our herd bulls are: Senior sire—Pontiac Soldene Butter Boy, sired by DeKol 2d's Butter Boy 3d, and out of Pontiac Soldene, a 26.61 A. R. O. daughter of Hengerveld De Kol. Our junior sire is King Pontiac Korndyke Topsy; he is a son of the great King of the Pontiacs, out of Valley Farm Topsy 2d, a 24-pound 4 per cent daughter of Korn-dyke Queen DeKol's Prince. **NO BETTER BLOOD LINES ANYWHERE.**

Remember the date and send for catalog, which will be mailed you as soon as published. Write now for the catalog of this sale. Every animal over 6 months is tuberculin tested. Every animal guaranteed a breeder. You take no chances here.

ROCK BROOK FARMS, Station B, Box 100, R. D., Omaha, Neb.

B. V. KELLEY, R. E. HAEGER, R. M. ADKINS, Auctioneers. JESSE JOHNSON, Fieldman.

J. O. James' Big Orange and Pawnee Lad Bred Sow Sale

AT

Braddyville, Iowa, on Wednesday, Feb. 7th, 1912

Fifty head of bred sows, daughters of the following noted boars, will be in this great offering: 1,000-pound Pawnee Lad, 900-pound Bix Ex, 750-pound senior yearling Big Sensation, 1,000-pound A Wonder, 860-pound champion Max Dude, 1,000-pound Long King's Equal, 1,000 pound Pawnee Nelson, Pawnee Prince, Big Giant and Big Hadley 2nd. The dams of the offering are of the best big type breeding and for size and quality are all that could be desired. Many of them are Pawnee Lad Sows. A large number will be bred to Big Orange, others to A Wonder's Giant, some to Gritter's Best, and the rest to Big Sensation. This will be my greatest offering at public sale. Write for catalog. Bids sent to fieldmen or auctioneers, in my care, will receive careful attention.

Auctioneer—H. S. Duncan. W. J. Cody, fieldman for Kansas Farmer.

J. O. James,

Braddyville, Iowa

Lamer's Percherons SALINA, KANSAS

Senty-five (75) Head of Imported and Home-grown Percheron STALLIONS, MARES and COLTS, all ages, for sales. WRITE or COME AND SEE ME before you buy.

C. W. LAMER,
Salina, :: :: :: :: Kansas

BIG TYPE POLAND CHINAS.

Thirty fall pigs sired by Spotted Chief, both boars and gilts, out of matured sows of the large type breeding. Will also offer for a short time only a limited number of spring gilts sired by Spotted Chief and R. B.'s Longfellow, which are bred to King Wonder, a son of old A. Wonder No. 167353 for March and April farrow. These are extra good and are priced reasonable, breeding and quality considered. Description of stock guaranteed. W. F. HOUX, JR., HALE, MO.

875 Breeding Shropshires

High grade black faced breeding ewes. All young, from yearlings up. A number of good young mares, draft bred and some good young work mules. 185 head good stock cows. Can furnish car lots of any class of stock. Maryville branch U. P. station on farm. Aikin Rancho, F. T. Grimes, Manager; Railway Station, Aikin, Kan.; P. O., Emmett, Kan.

FIELD NOTES.

Elder's Dispersion Duroc and Land Sale.

Frank Elder, of Green, Kan., who for several years has been one of the best known and most successful Duroc Jersey breeders of the state, is changing location and finds it necessary to disperse his valuable herd of Durocs. The date of the sale is Wednesday, February 7. Mr. Elder has determined to sell at public auction, on the same date, the highly improved hog farm where he now lives and where so many valuable hogs have had a home for a good many years. This farm is one of the best advertised farms in Kansas, and the man who buys it will get valuable advertising. Mr. Chapin owned and operated the farm years before selling it to Mr. Elder. It is well improved for the hog business, all the 40 acres being fenced hog tight, and the buildings, including a big cow barn, make it the ideal place for dairying in connection with raising hogs.

Soil Fertility and Cattle Feeding.

Men are discovering that soil fertility must be restored. That soils as rich as were once our unplowed prairies must be fed or grow too poor and lean to make a crop. And men are learning, too, that the best and cheapest way to compass this lies in stock feeding—in handing back to the impoverished soil daily fresh humus, rich in plant food and elements of growth. So we see today, all over the west, cattle barns and silos; and in every village—al-

most—the dealer's sign telling that Dr. Hess Stock Tonic is sold there. For farmers are not only learning the economical value of cattle feeding—they are also learning the value of right cattle feeding. Dr. Hess Stock Tonic is not a ration. Nor is it given to take the place of ration, but only to make ration available. Strictly speaking, it is a tonic. Its effect is to give "tone"—vigor, "snap," to every animal organ. A stall-fed steer, or a milk cow getting a little of it twice a day mixed in ground feed, will digest and assimilate the greater proportion of the ration given, and lay it on as flesh, or secrete it in the udder as milk. Thus the use of Dr. Hess Stock Tonic brings to pass a very profitable farm economy. It makes a given amount of corn, bran, cottonseed meal or other feed go further and produce better results in better beef and in greater quantities of milk. It gives that sleek, well-fed appearance that brings blue ribbons at live stock shows. It shortens the time necessary to fatten a steer or sheep, or hog, and puts a farm team in the pink of condition for a season's work.

Percheron Society Transfer Rules.

The annual report of the Percheron Society of America is filled with interesting matter to the lover of this splendid breed of draft horses. One of the most important things to the new member or breeder is the changes made in rules by which transfers of stallions are required as well as those of mares. In order to get a free transfer on the records of the Association it will be necessary to file the papers with Secretary Wayne Dinmore, Record building, Union Stock Yards, Chicago, within 90 days of the sale. Transfers recorded more than 90 days after the sale will cost \$1 each. Another new rule, and a most excellent one, requires the signature of the stallion owner on all applications for the registration of colts. This report, or any information about the Percheron Society of America, may be had by addressing Secretary Dinmore.

WELLS' DUROC JERSEY Bred Sow Sale

At Formoso, Kan., Saturday, Jan. 27, 1912

Thirty head of carefully selected individuals, comprising 5 TRIED SOWS, 5 FALL YEARLINGS, 14 SPRING GILTS. Everything bred for last of February and March farrow, to the boars, Waldo's Vindicator 10325, Tat's Chief, a grandson of Tatarax, and Jewell Climax, by Goldfinch Perfection.

TRIED SOWS include 3 daughters of Red Chief by King I Am, dam by Banker Boy; 1 by Sir Mac by Garrett's Jumbo. The tried sows are very prolific and are just in their prime, but I have sold several litters from them in this locality and want to change blood.

GILTS—The fall gilts and 12 spring gilts were sired by the great breeding boar, Red Ruler by Golden Ruler, he by Pearl's Golden Rule; 2 were sired by Waldo's Vindicator, a very richly bred sire, and a grandson of Higgin's Ideal. His dam, Queen F., was a daughter of a Tip Topnotcher. He combines the blood of old Improver and Red Chief I am. The gilts are very uniform and will be sold in nice breeding form and not very fat. The entire offering was vaccinated several months ago, and is therefore cholera proof.

I will also sell 3 choice summer boars. Write direct to me for catalog.

R. P. WELLS, Formoso, Kans.

Auctioneer—John Brennen.

Send bids to Jesse Johnson or Walter Ward, in my care, at Formoso, Kan.

FIELD NOTES

FIELD MEN.

Wayne Devine.....Topeka, Kan.
Jesse R. Johnson.....Clay Center, Kan.
W. J. Cody.....Topeka, Kan.

If in the market for a choice Red Poll bull, write Auld Bros., Frankfort, Kan. They have some choice individuals for sale at reasonable prices. Remember the dual purpose cattle.

Amcoats' Poland Chinas.
S. B. Amcoats has a half dozen big, strong, big-type Poland China boars still on hand. They are immune and will give extra good service. Sired by Bell Expand by Bell Metal. Mr. Amcoats also has choice Shorthorn bulls and will spare a limited number of pws and heifers.

The Blood of Royal Critic.
In his advertisement, which appears in Kansas Farmer this week, Mr. Robert I. Miller of Table Rock, Neb., calls attention to the sows and gilts included in his February 15 sale, bred to his great herd boar, Royal Critic, sired by Glendale Critic. The dam of Royal Critic was the undefeated sow, Royal Blossom 5th. Write Mr. Miller at once for a catalog of his sale.

S. W. Cooke & Son, the big Holstein breeders of Maysville, Mo., have made an important change in their advertising card and announce an offering of 30 choice bulls at bargain prices. Shortage of feed has compelled this sacrifice offer and, as these bulls range from 1 month to 2 years in age and are herd header material, the proposition is an attractive one to farmers and breeders. A few females can also be spared and, as Maysville is only 30 miles from St. Joseph, now is the time to get busy and secure your choice of these cattle.

Lefebure's Belgians.
Henry Lefebure of Fairfax, Ia., has a small ad in Kansas Farmer and those wanting Belgian stallions and mares are invited to write or visit the farm. Fairfax is near Cedar Rapids, Ia., and the farm is easily reached by the interurban electric line between Iowa City and Cedar Rapids. Mr. Lefebure exhibits at the State Fair and the International every year and if you have watched the reports of these shows you know that he has the winners. Lefebure handles Belgians exclusively, and can suit the pocketbooks of all buyers.

J. W. Pfander & Sons of Clarinda, Ia., have claimed February 28 as the date of their bred sow sale. On that date they will sell at Clarinda, 60 head of strictly big type sows. The offering will include 20 fall sows sired to the king of boars, the famous Long King and Long King's Equal, the sensational big type boar at the head of the famous John B. Lawson herd; also, a lot of spring gilts sired by Long King; others by M's Hadley, and some by Mastodon Wonder by A Wonder. Ten matured sows will go in this sale and they will sell this year. Watch for their sale advertisement, and write for catalog, mentioning Kansas Farmer.

The well drill ad for the Ferguson Manufacturing Company of Waterloo, Iowa, in Kansas Farmer should prove of interest to all who are thinking of buying a drill. We have known the Ferguson boys for several years and have seen their business trebled in the last five years. We believe they have in their Eccentric Drop Drilling Machine one that is especially adapted for use in most parts of Kansas. It is designed for wells ranging from 50 to 600 feet in depth, power being furnished by an engine. All machines are guaranteed and defective castings are replaced free of charge. The Eccentric Drop equipped with gasoline engine weighs only 3,500 pounds complete and one man standing at front of machine has complete control of all parts of the machine. Write for catalogue and kindly mention this paper.

L. R. McLarnon's Offering.
L. R. McLarnon of Braddyville, Ia., is preparing for his Poland China bred sow sale with a great offering of tried sows, fall yearlings and spring gilts, sired by such noted boars as Colossal, Max Dude, A Wonder, Big King and Big Mogul. The dams of the offering are of the best big type blood lines and, as individuals, they constitute one of the best sow herds in Iowa. A large number of this offering is bred to Big Orange, also a number to Colossal, two of the greatest big type Poland China boars in Iowa. Both boars have great breeding records, and both are great, massive, high-class, mellow, easy feeding fellows, and it is seldom that two such boars can be found in one herd. Watch for Mr. McLarnon's announcement. Write him for catalog; it will interest you. Mention Kansas Farmer.

W. F. Houx's Big Type Polands.
Attention is called to the card of W. F. Houx, Jr., of Hale, Mo. Mr. Houx is the owner of big type Polands. At present Mr. Houx is offering a fine lot of fall boars and gilts out of high-class, matured sows of the best big type breeding. This lot of pigs was sired by Spotted Chief, one of the good, big type boars. For a short time, Mr. Houx will also offer a limited number of extra good spring gilts sired by Spotted Chief and R. B.'s Longfellow. They are bred to King Wonder, a son of old A Wonder, for March and April farrow. This is an extra good offering. A number of them are outstanding good ones, and Mr. Houx is pricing them reasonable, breeding and quality considered. He guarantees description of stock, and farmers or breeders wanting high-class, big type Polands of the best blood lines will find them in his herd. Write him for description of his offering. Please mention Kansas Farmer when you write.

A Reward to Integrity.
The most encouraging sign of the times is the increasing tendency of great manufacturing concerns to apply the golden rule to their business. In spite of the statement of the eminent British divine that no business concern can be honest and succeed, America offers many notable examples of concerns who can be successful, though honest. One of the most striking instances of such success is seen in the remarkable record of the Roberts, Johnson & Rand Shoe Company, of St. Louis, whose unvarying policy to make their shoes of honest leather without the use of substitutes or adulterations, has won for them in only thirteen years the premier place in this great industry. The policy of this concern has always been to be as fair

with its customers as with itself, and as a reward for their integrity its business has increased at the rate of over a million dollars a year. Popular agitation for purity in food products has created a demand for purity in woolen goods, beverages, shoes and other articles of wear. The "Star Brand" shoe people were the first in their line of business to recognize the importance of purity of materials, and to show their good faith and willingness to go on record for pure shoes, they became the authors of the Pure Shoe legislation, which has already been introduced in several of the state legislatures and in our national congress. The text of the bill provides that any shoe or boot other than rubber shoes or boots shall have plainly stamped on the outside of the outer sole when, where and by whom made; and whether any substitute for real leather has been used. Also in which part or parts of the shoe the material is used. It is also provided that it shall be unlawful for dealers to sell shoes or boots not properly branded as to the materials used in manufacture. Another provision in the bill is that footwear made by convict labor shall be branded to that effect. No provisions in the bill are made to apply against the ordinary rubber heels, or the use of steel, wood or other material used as fillers in shoe or boot soles. The object of the bill is, of course, to insure to purchasers full information as to what is offered in the shoes and boots they buy. So far, it seems to be a meritorious bill in which the public has considerable interest.

High-Grade Fruit Trees.
It is no small distinction for a man to be selected to represent a great state like Kansas in her horticultural interests at an institution as big and as important as the great World's Fair held in St. Louis in 1903.

Such an honor fell to one of the foremost horticulturists and nurserymen of Kansas in the person of W. F. Schell, proprietor of the Wichita Nursery. Mr. Schell has been and is a close and careful student in his line of effort, and the distinction awarded him in the World's Fair appointment was a fitting recognition of his abilities and accomplishments. No man is more interested in having the farmers of Kansas and adjoining states get the highest grade trees to plant; and no one is making or has made more painstaking effort to furnish the best trees possible. Nor can it be gainsaid that Mr. Schell has been very successful in his study and work. He has not hesitated at expense when it meant a better product for his trade. A few years ago, when San Jose scale made its appearance in Sedgewick County, he realized that he should grow his trees in a territory in which this pest was unknown. Accordingly he left his Sedgewick County grounds for field crops, and proceeded to arrange for growing his trees in Cowley County, where there was no San Jose scale or other tree pests. His stock this year, grown in Cowley County, he writes, is the finest he has had for many years. The past season was an exceptionally good one for hardy tree growing. The wood produced has grown hard and firm, root systems almost ideally developed, and for vigor and thriftiness most successfully withstand shipment and transplanting, his present stock is of a very high quality. Every shipment he makes is accompanied by a certificate of inspection by the state entomologist. Every assurance is given the planter that Wichita Nursery trees are healthy, vigorous, thrifty and free from disease. The Fruit Book, which Mr. Schell has written and which is sent free to everyone interested in fruit tree planting, is worth the careful reading of every planter. Mr. Schell says he has always an extra postage stamp on hand to write all information of his work, his trees and to give every planter the benefit of his best experience in the way of free consultation and advice on tree planting. A line addressed to him, care Wichita Nursery, Wichita, Kan., will bring an interesting and instructive reply, together with the Fruit Book and special wholesale prices on any trees desired.

Watson Goes to Europe.
We just received a letter from Watson, Woods Brothers & Kelly Company of Lincoln, Neb., stating that Mr. Watson had started back to Europe for the third importation of horses this fall and winter. They report a very successful season so far, and if the demand keeps up they will be able to sell a great many more stallions this year than last, and that is saying considerable, because they were sold out last year by the middle of April. We have known this firm for a great many years, and can heartily recommend them to our readers. They sell good horses. You ought to write for their new catalog. It is the finest book they have ever gotten out. It is filled with photographs and interesting facts about their big importing establishment, which is one of the largest in the United States. Besides this handsome catalog, printed in three colors, they have issued a book called "Four Yards of Evidence." It is nicely gotten up and contains hundreds of letters from satisfied customers, with their names and addresses given. If you are going to buy a stallion this spring we recommend that you send to Watson, Woods Brothers & Kelly Company for their catalog and book of evidence. They will send them to you. Mention this paper when writing.

Glissman's Holstein Sale.
On February 6 and 7 at the Union Stock Yards sale pavilion at South Omaha, Neb., Mr. H. C. Glissman of Station B, Omaha, Neb., will hold a two days' sale of 150 head of high class Holstein cattle that should receive the attention of every man at all interested in this great breed of cattle. Mr. Glissman has held a great many successful sales in the past and the high class of cattle he has offered has made for him a name among the Holstein men of the west that is really second to none. In order to bring the number up to 150 head at this time he has solicited some consignments from other breeders. Among these Mr. Frank White of Hampton, Iowa, will consign a number of choice animals. Mr. Glissman has personally inspected all the offerings as a whole and by far the best he has ever made, and of course this means the best that has ever been sold in the central west. The offering will consist of 30 bulls and bull calves, 75 heifers under 2 years old, and 45 cows and heifers 2 to 3 years old. A large part of the females will be fresh at the time of sale or will freshen soon after. Among these cows are a number that have been officially tested. The bulls are out of cows with official records of from 15 to 30 pounds. Heifers old enough

will be bred to King Pontiac, Korndyke Topsey, and other noted bulls. Write for a catalog and be on hand for both days of this great sale of 150 head of pure-bred Holsteins. Here is your chance. Mention Kansas Farmer sure.

Some Shropshires and Cattle.
The Atkins Ranch at Atkins Station, on the Marysville branch of the Union Pacific, is a place to renew the life of the old timer. Here are grown and dealt in all of the farm animals and about 3,000 head of high grade Shropshires, 1,000 head of cattle, 250 horses and mules are on hand and for sale at all times. This ranch is managed by Frank T. Grimes, whose postoffice address is Emmett, Kan. He is a young man of unusual ability who is conducting the ranch with the idea of being able at any time to supply farmers with any kind of well graded stock in lots of from one animal to a car load or more. His mares are grade Percherons. The cattle, well bred for feeders, and the sheep are high grade Shropshires, with a few Southdowns. This is a new kind of enterprise, but one that is much needed. Here the farmer can get anything from a team of Percheron mares or work mules to a bunch of Shropshire ewes. The ranch has 320 acres of alfalfa and a large area of prairie grass, and is so located that the animals grow out well and with the best of constitutions. No corn is grown, and Mr. Grimes plans to increase the alfalfa area to 1,000 acres. Read the advertisement which is headed "375 Shropshire Ewes," and note the number of cattle, horses and mules that are offered for sale. It will pay to visit this ranch, but a letter addressed to Manager F. E. Grimes, Emmett, Kan., will bring full information if you mention Kansas Farmer.

Last Call for Davis & Co.'s Sale.
January 26 is the date of E. W. Davis & Co.'s great Duroc sale at Glenwood, Mo. This will be one of the greatest Duroc offerings of the season and an opportunity for Duroc breeders to secure breeding stock from the famous Model Queen Duroc herd. This offering will include sows by Defender, Harding's King of Cols., Helen's Chief Double Model, Pride's Chief, The Ohio Model, McNeil's Model; spring gilts by Prince of Cols., Ohio Col., L. E's Col., Model Chief 8th, Golden Col., Proud Ohio Chief and other great boars; fall gilts by Golden Model, B. & C. Col., Duke of Col., and other noted sires; fall yearling sows by Crimson Wonder Again, Crimson Jack and White Hall Col.; aged sows by Bell's Proud Chief, Scott's Col., and The Chief. The offering includes a full sister to the great Model Queen bred to Ohio Col. Twenty-six head are bred to Ohio Col. some to Valley King, champion 1911, some to Valley King Again, and others to King of Cols. 2nd. This is an offering of high class, bred in the purple sows that should interest Duroc breeders.

Lawson's Sensational Offering.
One of the sensational big type Poland China bred sow offerings will be that of John B. Lawson of Clarinda, Ia., on Tuesday, February 6, 1912. On that date, Mr. Lawson will offer 48 head, including 16 head of tried sows of the best big type breeding, extra large and bred to Mr. Lawson's great herd boar, Long King's Equal, a boar that has made a sensational record and that has sired the heads of many of the greatest, big type Poland China herds in the country. A number of gilts sired by old A Wonder and bred to Long King's Equal will also be included in this offering. The balance of the offering will be gilts sired by Long King's Equal and bred to A Wonder Jumbo. The sows and gilts of this offering are a remarkable lot, not only for their great size but for their very high quality. Their dams are all that could be desired for size, class and prolific qualities, and are by Jumbo sires. Young boars from this great herd have gone to many of the greatest herds as herd headers this year, and the offspring of this great offering will be the kind that go to the high-class herds and make good, and it will be to the interest of every breeder of big type Polands to attend this sale. Write for catalog, and arrange to be at Clarinda, February 6. Please mention Kansas Farmer when writing.

J. O. James' Big Poland China Offering.
Attention is called to the sale advertisement of J. O. James of Braddyville, Ia. This will be a great offering of bred sows sired by the most noted big type boars. Fourteen head were sired by 1,000-pound Pawnee Lad, 17 by 900-pound Big Ex and out of Pawnee Lad sows, eight by the great 750-pound senior yearling champion, Big Sensation and out of Pawnee Lad sows, two by 1,000-pound A Wonder out of Mrs. Giantess by 1,000-pound Jumbo, some by the grand champion, Max Dude, one by 1,000-pound Long King's Equal, one by 1,000-pound Long King, daughters of Pawnee Nelson, Pawnee Prince, Big Giant and Big Hadley, making it one of the greatest offerings of bred sows sired by noted big type boars ever offered to breeders. Thirty head of this offering are bred to Big Orange, one of the great, big type boars living. Many of the most prominent herds in the country are headed by sons of this noted boar. The rest of the offering will be bred to A Wonder's Giant, Britter's Best and Big Sensation, three great, big type boars. The spring gilts in this offering weighed from 300 to 325 pounds December 27, and the fall yearlings and tried sows are just as good. Write for catalog; they are now ready. This great offering will interest breeders wanting the best. Please mention Kansas Farmer when writing.

Mastodon Poland Sale.
At his farm near Riley, Kansas, on Monday, February 5, Mr. J. L. Griffiths will sell at auction one of the best bunches of big type Poland Chinas that has ever been offered in this part of Kansas. The offering consists of tried sows, spring gilts and summer boars. The sows and gilts bred for spring farrow to the boars Big Bone Pete, a boar bred by Peter Mouw, and John Osborne, sired by Big Osborne, a noted big Smooth boar. His dam was Lady Mastodon 14th. The tried sows and a part of the gilts are bred to Big Bone Pete, and the rest of the gilts to John Osborne. Many of the gilts are daughters of Mr. Griffiths' noted big sows, three sisters, the like of which can hardly be found in any herd in Kansas. They are great big wide-out, prolific kind of sows and are descended from great ancestors. Mr. Griffiths owned their mother. She had an 11-inch bone and was one of the biggest sows ever owned in this part of Kansas. Mr. Griffiths calls them sows the "Big Three," and banks on them on all occasions. Mr. Griffiths has bought practically all of his hogs from Iowa breeders, and what he has for sale can be mated with almost any breeding in this locality. His hogs are noted for their great size, and they will be sold in very moderate condition. Mr. Griffiths doesn't believe in feeding breeding stock too highly. This will be a good, useful offering, and should attract

buyers. Write at once for catalog, mentioning Kansas Farmer. Bids may be sent to Jesse Johnson in Mr. Griffiths' care at Riley, Kan.

Albert Smith & Sons Sell February 7.
Albert Smith & Sons, the well known big type Poland China breeders of Superior, Neb., will hold their annual bred sow sale at the farm near Superior on Wednesday, February 7. This will be their twelfth sale, and the offering is sufficient in merit to attract buyers from all adjoining states. The 23 fall yearling gilts that are included are the best the writer has seen this season and it is very doubtful if another equally as good will be sold in any sale this winter. They were sired by Smith's Big Hadley and Jumbo, Jr., the two principal boars in the herd. They have so much quality and are so uniform that it is hard to mention a part of them without doing an injustice to the rest. Included is a litter of five out of the same sow and sire that produced the \$100 sow last year. They are full sisters to the four gilts that sold for \$441 at last winter's sale. A boar pig out of same litter topped the Francisco sale at Hastings, Neb., last fall. Several extra good ones are out of the noted old sow Wandering Girl and sired by Smith's Big Hadley. Wandering Girl is also included in the sale. The spring gilts are by Smith's Big Hadley, Jumbo Jr. and Big Sam, the \$350 boar formerly owned by the Smiths. His gilts are extra choice. Everything is bred for February and March farrow, with a few for April, to the boars already mentioned, and the new herd boar Victor's Model by Big Victor. Mr. Smith's oldest son has recently married and moved upon one of the farms, and the hog business will be carried on even on a larger scale than before. Large numbers will be raised, but the herd will be culled closely and none but the best sold for breeding purposes. Messrs. Smith will also sell a couple of choice registered Shorthorn bulls. Write at once for catalog.

Ben Bell Makes Good Sale.
Ben Bell broke the ice last Thursday January 4, at Beattie, Kan. It is rather early for winter-bred sow sales and there was some anxiety on the part of many concerned with the sale, but the good sale emphasized the fact that good stock will always bring a fair price, and almost any season of the year is all right for a public sale, provided the offering is in condition to sell. Mr. Bell sold 58 head of catalogued stock at an average of \$50, lacking just a trifle. The offering contained 25 tried sows, and the statement was made by several good breeders present that it was the best lot of sows ever sold in a Kansas auction. John C. Halderman of Burchard, Neb., topped the sale at \$105, buying No. 38, a choice coming 2-year-old sow sired by What's Ex and bred for February farrow to Bell's Long King. Buyers were present from three states. Following is a complete list of sales.

No.	Purchaser—	Price.
1.	C. W. Jones, Solomon.....	\$ 30.00
2.	W. E. Willey, Steel City, Neb.....	45.00
3.	Lyman Peck, Fort Calhoun, Neb.....	70.00
4.	Roy McCord, Fairbury, Neb.....	67.50
5.	Frank James, Beattie, Kan.....	70.00
6.	Singer & McClain, Wellsville.....	50.00
7.	Thompson Bros., Marysville.....	52.50
8.	James Dilley, Beattie.....	50.00
9.	James Dilley.....	45.00
10.	Charles Harry, Beattie.....	47.50
11.	John Fitzgerald, Beattie.....	47.50
12.	John Fitzgerald.....	47.50
13.	C. L. Branick, Hiawatha.....	62.50
14.	W. E. Willey.....	60.00
15.	55.00
16.	Lyman Peck.....	50.00
17.	Singer & McClain.....	80.00
18.	The Rambler Herd, Kansas City, Kan.....	47.50
19.	W. V. Goldsberry, Beattie.....	50.00
20.	McClain & Singer.....	55.00
21.	Ed Fritz, Beattie.....	50.00
22.	John Burnside, Beattie.....	65.00
23.	Thomas Harry, Beattie.....	50.00
24.	John Gildow & Son, Jamesport, Mo.....	50.00
25.	Frank James.....	50.00
26.	Luther Davis, Fairbury, Neb.....	60.00
27.	The Rambler Herd.....	57.50
28.	William Behrens, Beattie.....	60.00
29.	William Neherns.....	55.00
30.	A. Z. Gates, Beattie.....	45.00
31.	Luther Davis.....	50.00
32.	John C. Halderman, Burchard, Neb.....	105.00
33.	T. J. Meisner, Sabetha.....	50.00
34.	Thompson Brothers.....	50.00
35.	W. V. Goldsberry.....	42.50
36.	Thompson Brothers.....	55.00
37.	C. W. Anderson, Beattie.....	67.50
38.	C. W. Anderson.....	37.50
39.	Charles Harry.....	55.00
40.	C. W. Jones.....	42.50
41.	S. E. Fritz, Beattie.....	40.00
42.	S. E. Fritz.....	30.00
43.	Roy McCord.....	37.50
44.	Roy McCord.....	32.50
45.	Ed Fritz, Beattie.....	37.50
46.	Ed Fritz.....	37.50
47.	Ed Fritz.....	37.50
48.	32.50
49.	Phil Dawson, Endicott, Neb.....	35.00
50.	John Blockster, Beattie.....	40.00
51.	A. L. Oxley.....	35.00
52.	Lyman Peck.....	40.00
53.	John Mitchell, Axtell.....	35.00
54.	A. L. Oxley.....	32.50
55.	W. E. Willey.....	37.50
56.	Ed Fritz.....	37.50
57.	John Mitchell, Axtell.....	35.00

Zurich, Kan., May 1, 1907.
CURRIE WIND-MILL Co., Topeka, Kan.
Please find enclosed check for balance on Mill. I am well pleased with your Wind-Mill. I am satisfied you have all the rest of Mill makers beaten a mile.
Yours truly,
JAMES O'CONNOR.

HIDES AND FUR MARKET.
(Furnished by Jas. C. Smith Hide Co., 108 East Third Street.)
HIDES—Salt cured, No. 1, 12½¢; No. 2, 11½¢; side brands, under 40 lbs., per lb., 10¢ flat; side brands, under 40 lbs., 9½¢ flat; bulls and stags, No. 1, 9¢; No. 2, 8¢; glue hides, 6¢ flat; horse hides, No. 1, \$3 @3.50; No. 2, \$2 @2.50; yellow, No. 1, 5¢; No. 2, 4¢; sheep pelts, 35¢ @55¢; Green uncured, 1½¢ less than same grade cured. Green half cured, ¾¢ less than cured. Green frozen hides grade as No. 2.
FURS—Mink, Central: No. 1 large, \$4.50 @6.50; No. 1, medium, \$4.25 @5.50; No. 1, small, \$3.00 @2.00. Raccoon, Central: No. 1, large, \$2.00 @1.25; No. 1, medium, \$1.25 @1.00; No. 1, small, 90¢ @85¢. Skunk, Central: Black, \$2.50 @3.50; Short stripe, \$1.50 @2.00; narrow stripe, \$1.25 @90¢; broad stripe, 25¢ @50¢; best unprime, 35¢ @20¢; No. 1, medium, 40¢ @25¢; No. 1, small, 20¢ @15¢. Muskrat, Central: No. 1, large, 50¢ @35¢; No. 1, medium, 38¢ @30¢; No. 1, small, 25¢ @20¢. Fox, Red and Gray—No. 1, red, \$5.00 @1.25; No. 1, gray, 75¢ @2.00. Wolf, Prairie and Timber—No. 1, prairie, \$4.00 @75¢; No. 1, timber, \$6.00 @1.00. Cat, Wild and House—No. 1, wild, \$1.10 @25¢; No. 1, house, large, black, 20¢ @10¢; No. 1, house, medium, colors, 10¢ @5¢. Civet, Central: No. 1, 45¢. Badger—No. 1, \$1.00 @30¢. Early caught furs at value.

BUILDING MATERIAL PRICES ABSOLUTELY SMASHED!!

SEND US YOUR LUMBER BILL FOR OUR ESTIMATE

\$493 Our price for the material to build this house.



HOUSE DESIGN No. 111
Here is a neat, cozy, little cottage that can be built at the minimum of cost under our guaranteed building proposition. Size, 23 ft. 6 in. wide by 33 ft. Five rooms and bath. All the comforts desired by home-loving people. Extra large porch. Convenient interior. For the price it is impossible elsewhere to secure a home with so many excellent features.

\$635 Our price for the material to build this house.



HOUSE DESIGN No. 149
The Mansard roof construction of this design enables the owner to utilize all space to the best advantage and get the very most to be had for the money. Size, 21 ft. wide and 28 ft. deep, six rooms, bath and basement. This design offers more convenience than many larger and higher priced houses. Is constructed of the very best materials at a magnificent saving.

\$698 Our price for the material to build this house.



HOUSE DESIGN No. 6
This is our leader. Size, 23 ft. by 33 ft. 6 in.; 7 rooms and bath. There has never been a design offered that can be built in so economical a manner with less material to produce satisfactory results and a general effect of elegance than this house. Has satisfactorily been built more than 400 times during the last two years. A beautiful home at a splendid money-saving price.

\$835 Our price for the material to build this house.



HOUSE DESIGN No. 130
Size, 25 ft. 10 in. x 29 ft. 6 in.; eight rooms and bath, pantry, vestibule and large hall. A square, solid, substantial construction. All space is advantageously utilized. The Colonial windows and porch columns are distinctive features. For convenience and artistic arrangement, general elegance of appearance, and low price, this house is unequalled.

CHICAGO HOUSE WRECKING COMPANY THE GREAT PRICE WRECKER

We buy supplies at Sheriff's, Receivers', and Factory Sales, besides owning outright saw mills and lumber yards. Usually when you buy your building material elsewhere for the complete buildings shown in this advertisement, it costs you from 50 to 60% more. By our "direct to you" method we eliminate several middlemen's profits. Every stick of lumber and every bit of building material offered in this advertisement is guaranteed brand new and first class; as good as you can purchase from anyone anywhere.

You run no risk in dealing with us. Our capital, stock and surplus is over \$1,500,000.00. Our 19

years of honest dealing guarantees absolute satisfaction. Any material not up to our representation may be returned at our freight expense both ways and money refunded in full.

Our wonderful spring building offer sets a new pace in the building world. Never before have such remarkably low prices been published.

Our stock includes practically every manufactured article. Besides building material we have a complete stock of Dry Goods, Clothing, Boots and Shoes, Furniture, Household Goods, Groceries—in fact everything needed in the home, on the field or in the workshop.

CORRUGATED ROOFING Per Square \$1.25

Roofing Prices Smashed. Metal roofing is superior to all other coverings. A fact proven absolutely and conclusively of 100 years of actual experience. We carry a complete stock of all styles.

Here is a roofing offer that has never before been equalled. We have 5,000 squares of Corrugated Iron Roofing sheets all 22x24x1/4 in. corrugation. Strictly new first-class that we offer at \$1.25 per square Free on Board Cars at Chicago.

At this price we do not pay the freight, but if you will write us for our Great Roofing Offer, we will make you Freight Prepaid Prices lower than ever offered in the history of roofing materials.

Our stock includes painted and galvanized. We can furnish it in flat, corrugated, standing seam, "V", crimped, brick siding, beaded ceiling and in ornamental fancy ceiling. In fact we can furnish your every want in the covering line.

A hammer is the only tool needed in putting on all grades but the standing seam. We give you free with every order for 3 squares or more a handsome serviceable crucible steel hammer that ordinarily retails from 75c to \$1.00. Write today for our Great Complete Roofing Catalog, and our latest Roofing quotations.

"PREMIER" HOUSE PAINT Per Gallon \$1.08

Mr. V. Michaelson, Supt. of our Great Paint Dept. is probably the best known paint man in the world. His picture has appeared on millions of gallons of cans. He is our guarantee of quality. Our Ready Mixed "Premier" Brand of Paints are made under a special formula and will give the best service and satisfaction. Our prices range from \$1.08 to \$1.21, depending upon quantity.

Our "Premier" Brand Paint is an ideal protection for barns, roofs, fences, outhouses and all general purposes. This is a paint in which Mr. Michaelson has put all his personality. Comes in green, maroon, yellow, lead, red and slate.

In 1 gallon cans, per gallon, \$1.08
In 25 gallon cans, (1/2 barrel), per gallon, \$1.20
Write to-day for our Great Color Card and prices.

\$37.50 BUYS COMPLETE BATHROOM OUTFIT

Here is an outfit that is good enough for any home. It is strictly a No. 1 and first-class in every particular. The bath tub and lavatory are white porcelain enameled over iron. The closet is a siphon acting low down outfit.

It is our lot No. 5-AD-32.

Our handsome Plumbing Catalog lists many other outfits ranging in prices from \$26.30 to \$52.50. We will furnish all the Plumbing material needed for any of the houses shown in this advertisement, including one of the bathroom outfits described above, besides a one piece roll rim white enameled kitchen sink, with white enameled drain board, a 30 gallon range boiler and all the necessary pipe and fittings, and all material of every kind to complete the entire plumbing system, including all fixtures, furnished with iron pipe connections for the sum of.....

\$83.95

WALL BOARD Our Magic Wall Board

is positively the best on the market. This is the Wall Board that has a backing of regular 4 ft. lath and Asphalt Mastic, the face side of which is heavy card board, properly sized, ready for calkimming, paint or wall paper. It comes in sheets four feet square. Write us what space you wish to cover and we will send you descriptive circular and name you delivered prices. Be sure to mention Magic Wall Board M-W-22.

Price per square.....**\$2.50**

READY ROOFING, PER SQUARE 85c

Our Rawhide Roofing is the highest grade roofing at the lowest price ever offered. It has a foundation of tough fibre texture so substantially prepared that it is well-nigh indestructible. Every foot carries our iron-clad guarantee to be absolutely right.

In addition to our high grade Rawhide Roofing, we offer for a limited time 10,000 squares of our Ajax Brand of Ready Roofing at 85c per square. It is put up 106 square feet to a roll. Price includes large headed nails and cement sufficient to lay. While it is practically the same as our Rawhide Roofing, it does not come in continuous lengths; maybe two or three pieces to a roll; of course that does not affect the quality. Our price for this Ajax Brand, 1 ply, is.....**85c**

This price includes freight to Illinois, Indiana, Iowa, Wisconsin, Ohio and Michigan. Write today for free samples.

LUMBER PRICES SMASHED

Now is the time to get our prices on lumber or building material. Do not hesitate to send us a list of your wants, whether it is lumber or mill work, complete house, barn or corn crib, or a plan of your own that you wish developed. We have the best Lumber Yard in the United States, experienced Architects, and can give you unequalled service in shipment, quality, finish and design. We are the only concern in the United States that has all the building material right here at Chicago where you can come and see it loaded, and from which point IMMEDIATE SHIPMENT can be made. We can furnish everything from a common board to the finest Quarter-Sawn Interior Finish, including Mill Work, Doors, Mantels, Columns, Sides, Boards, etc.

Following are some of our bargain prices:
Extra Star A Star Washington Red Cedar
Shingles, Per M.....\$ 3.39
5-2 all Clear Washington Red Cedar
Shingles, Per M.....\$ 3.78
No. 1 Drop Siding, Yellow Pine, kiln dried \$23.50
No. 1 Flooring, 4 in. Yellow Pine, Per M. \$18.00
No. 1 Ceiling, 2 1/2 x 4 in. Yellow Pine, kiln dried, Per M.....\$16.50
No. 2 Ceiling, 2 1/2 x 4 in. Yellow Pine, kiln dried, Per M.....\$14.00

GALVANIZED WIRE Per 100 \$1.25

This is our price for Smooth Galvanized Fence Wire, known as Wire Short. It comes in various lengths, put up 100 lbs. to the coil. \$1.25 is our price for our 6-gauge; other gauges in proportion.

We offer brand new Galvanized Spt. Barbed Wire put up on reels, containing about 100 lbs.

Price per 100 lbs. **\$1.85**
We can furnish this also in 4 point at the same price; also impainted at \$1.50 per 100 lbs.

Better order now while this remarkably low price exists.

25 Inch Square Mesh Hog Fencing, per Rod 15 Cts.
Here is a bargain such as has never been offered. A heavy weight new Galvanized, well built hog fencing, suitable for general purposes at 15c a rod. Other sizes at equally low prices.

Crimped Wire for Re-inforcing.
We can furnish No. 6 Galvanized Crimped Wire in lengths required for re-inforcing purposes. Price per 100 lbs. **\$2.25**

Write for our Wire and Fencing Catalog. Tells all about our Samson's Woven Wire Fencing. Also quotes low prices on Barbed Wire, Smooth Wire, and tells about Lawn and Garden Fencing; describes gates and posts.

IRON PIPE AND FITTINGS

Rejuvenated Pipe, in random lengths, complete with couplings suitable for gas, oil, water and conveyance of all liquids. Sizes 1/2 inch to 12 inch. 1 inch, per foot, .30 1 1/2 inch, per foot, .31 1/2

Send us specifications and we will quote for your exact requirements. Also a complete stock of Valves and Fittings.

Our price for the material to build this barn.

\$580



OUR JOIST FRAME BARN No. 221
Size, 26 ft. by 48 ft. Height to top of roof, 28 ft. 6 in. The most practical and serviceable barn ever designed. No heavy timber in the entire structure. Self-supporting roof. No joists in hay-loft. This design represents strength, rigidity, economy of construction, and is absolutely dependable and substantial. Write us for more complete information.

Our price for the material to build this barn.

\$620



OUR "STAR" BARN DESIGN No. 270
Size, 53 ft. wide by 80 ft. long 24 ft. to comb. An ideal barn for farmers raising stock on a moderate scale; balloon type. The hay-mow extends to the ground floor and above the grain rooms on each end of the barn. Cattle stalls on one side of the hay-mow; horse stalls on the other. Excellently ventilated in every part. A practical barn well built of guaranteed first-class material, and will give excellent, all around satisfaction.

Our price for the material to build this barn.

\$639



BARN DESIGN No. 250
Size, 30 ft. wide and 60 ft. long 18 ft. to top of the plate. A barn arranged exclusively for horses. Has 12 single stalls, 5 ft. each, and 6 double stalls, 10 ft. each. Ten foot driveway. Can also be used as a horse and a cattle barn and will accommodate 12 horses and 18 head of cattle. A building of brand new high grade materials, dependable construction, sanitary and generally convenient throughout.

Our price for the material to build this barn.

\$955



ROUND BARN DESIGN No. 206
Size, 60 ft. in diameter and 16 ft. high to plate. Has 14 sides, each side 14 ft. A 16 ft. silo in the middle, same being 36 ft. high and will hold 160 tons of silage. Hay capacity, 65 tons. Will accommodate 100 head of cattle. The many and excellent features offered by this construction, the high grade materials furnished by us, and our extremely low price makes this a barn bargain worthy of thorough investigation.

FILL OUT THIS COUPON No. R.F.

Chicago House Wrecking Co., Chicago.

I saw your ad in the KANSAS FARMER. 61

I am interested in.....

Place an X in square opposite book you want sent free.

Building Material Book	<input type="checkbox"/>	Paint Book	<input type="checkbox"/>
Plan Book	<input type="checkbox"/>	Wire List	<input type="checkbox"/>
Roofing Book	<input type="checkbox"/>	Iron Pipe	<input type="checkbox"/>
Plumbing Book	<input type="checkbox"/>	Acety. Lighting	<input type="checkbox"/>
Heating Book	<input type="checkbox"/>	Concrete Mach.	<input type="checkbox"/>

Name.....

Town..... County.....

State..... R. F. D. P. O. Box.....

ANY OF THESE PRICE WRECKING BOOKS SENT ABSOLUTELY FREE!

PLAN BOOK Upwards of 100 medium price houses, barns and other designs shown. Each design represents beauty, utility, substantial construction and the lowest possible price. This Valuable Book Free.	ROOFING BOOK This book explains all about metal roofing, ready roofing and all other styles. Tells how to apply same in the most economical and satisfactory manner. Quotes lowest prices on highest class material. Sent Free.	BUILDING MATERIAL BOOK The greatest book on Building Houses ever sent free. Tells all about our wonderful stock of Lumber, Sash, Doors, Roofing, Hardware, Plumbing, and Heating. Write For It Today.	PLUMBING BOOK A complete education in plumbing so you can equip any building of any style or size and save at least 50%. HEATING BOOK Hot water, steam and hot air heating fully described. This Book is Free.	PAINT BOOK A book showing actual colors, 40 shades to select from. Informs you fully regarding application to get lasting results. Every quotation a saving of 30% to 50%. Tells all about painting and painters' supplies. Free Paint Book.
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CHICAGO HOUSE WRECKING CO., 35th and Iron Sts., CHICAGO