

KANSAS FARMER

FOR THE IMPROVEMENT  OF THE FARM AND HOME

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College Extension A New Field

The country needs a system of industrial education which reaches down nearer to the people than any college can. This state needs a system of practical education, not limited to the Agricultural College at Manhattan, for in the nature of the case, comparatively few of our citizens will ever attend that or any other college. We should have a system which shall embrace high schools within walking or riding distance of every boy and girl in the state, with agriculture, manual training, domestic science and commercial work receiving strong emphasis. The high school must always be the people's college. Its course of study should be so shaped as to best fit its students for the duties of life.

Industrial work having been once successfully introduced into the high school, will pave the way for the next most important step in education, that of introducing these same subjects in their more elementary form into the grades and rural schools, so that every boy and girl in the land may be brought in direct touch with the industries and in sympathy with the form of labor which produces our wealth.

The agricultural colleges and teachers of the country may point out the need of the changes in our systems of education and suggest the plans for their accomplishment. The newspaper, however, must be relied upon to make the campaign which shall arouse the public mind and quicken the public conscience.

The Middle West is and must continue for many generations to be an export region. If more food is not produced in a rich agricultural state like this than is consumed by the people within her border, how are the people in the congested countries of Europe and the more densely populated regions of the United States to be kept from starving? But we need to concern ourselves with the character of the material constituting these exports. We should reduce as far as possible exports of raw and semi-raw material, and should increase to the maximum our exports of finished products of the highest quality. By so doing we build up home industries, give employment to labor in healthy country towns and villages instead of in congested cities, besides conserving our soil fertility. With every ton of alfalfa hay which we export, we send between eight and nine dollars' worth of Kansas' permanent capital—the fertility of the soil. Convert this alfalfa into butter, and it will carry less than 10 cents' worth of plant food away from the farm. Less than half of the wheat grown in Kansas last year was milled within our borders. When we export the white flour alone, and keep within our state and feed to live stock the bran and middlings, we reduce in an appreciable way the drain of this crop on our soil. The normal corn crop of this state may be put down as approximately 175,000,000 bushels. This crop takes from our soil not less than \$30,000,000 worth of plant food annually. None of this grain should be exported. It should all be fed to high grade live stock, so that the farmer may return at least three-fourths of the fertility it contains to the soil which produced it.

Technical Education Must Be Brought to the People

H. J. WATERS, *President Agricultural College*

By having our exports of these high class finished products we conserve our soil fertility, foster a higher and more remunerative type of farming, and develop manufacturing industries at home. These lessons may be well outlined by the agricultural colleges, but the newspapers must be the principal instrumentalities for carrying them to the people.

More of our people must live on farms than at present, they must be of the most intelligent class. The open country develops a strong race of people. The farm is today the home of American individualism. But however favorable these environments may be, the virility of the race cannot be maintained if the brightest and best of the boys and girls born in the country desert the farms for the towns and cities. This can have

but one effect: the lowering of the standard of intelligence and efficiency of the American farmer. It is not alone a question of maintaining the numbers in the country, for that may be easily accomplished by recruiting from the shops and factories of the city and from among the peasant classes of Europe. The question is, how are we to keep the quality up? To lose to the cities the best the country produces, and recruit from among the poorest the cities afford—the working men who have failed to make good there—and from the lowest ranks of the European countries, is to accentuate rather than to alleviate the difficulty. Just how this situation is to be met is not now clear; but the necessity for meeting it is absolutely imperative.

This trend cityward has been due,

to a great degree, to the half education which has prevailed in the rural districts, and which has given the farm boy glimpses of the more attractive city life, without teaching him at the same time how he may attain such a life at home. It is now proposed to correct this defect in the training of the country boy and girl. Thus, for the first time in history, the remedy is to be sought in education. We must have a system of education which will intellectualize the profession of agriculture so that it will appeal to the ambitious man and woman and at the same time so increase its emoluments as to give a reasonable amount of leisure and make country life attractive.

In this whole matter the press, metropolitan and country, is playing a constantly increasing part. The college, and the newspaper—two great divisions of our educational system—must work in closer harmony. Neither, working alone, may hope to be successful in solving these great problems, but, working together, unselfishly and patiently, the outcome will be up to all reasonable expectations.

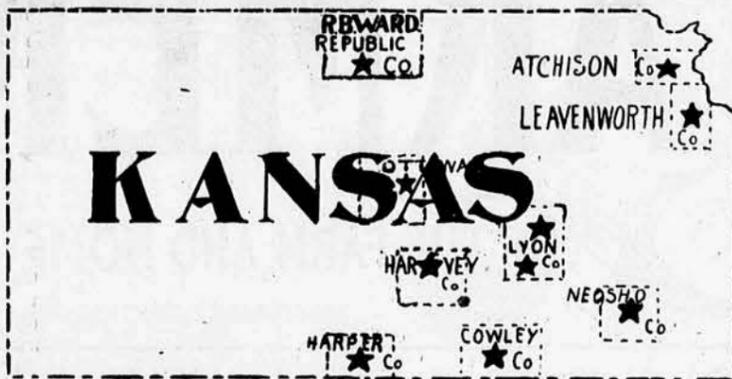
This splendid article by President Waters needs no comment. It speaks for itself and in the most impressive terms. It is most timely and most important in that it calls attention to that condition which always confronts us and which presses for a solution now more than ever. To turn the city man towards the farm is not nearly so important as to turn the farmer towards the more interesting, more important and more profitable phases of his own business to the end that he may secure that success which brings contentment and that his sons may follow after him. Farming is a profession which demands skill, knowledge, training and ability in a much higher degree than do most other professions and that man or that institution which can supply this needed training, or the means of it or the incentive towards it is doing a greater work than comes within the ability of most men. The agricultural college of Kansas has always been a leader among its kind and now ranks first in the world. Its object is not to train men to become farmers or horticulturists or dairymen so much as to train them so that when they go out into the world as farmers or horticulturists or dairymen they may be men among men, successful in business and good citizens all.

Powerful as the Agricultural College has been and is it cannot do it all and President Waters is right in his judgment that its work must be supplemented by that of the press and particularly the agricultural press. Perhaps in no state has this fact been so thoroughly appreciated as in Kansas. No state has appreciated more highly the value of an education for its citizens and none has more loyally supported its schools, colleges and farm papers. Under the administration of President Waters, with the loyal cooperation of the strongest and ablest men who ever composed its faculty and supported as it is by the farm press of the state the Agricultural College of Kansas has just entered upon its greatest period of usefulness.



"Come on in, the water's fine"!

**Farmers and Stock Dealers Vote For
"DICK WARD" For R. R. Commissioner**



The North and Northwest sections of Kansas have but one candidate for a state office on the Republican ticket, and that is R. B. Ward—commonly known as "Dick Ward"—and these sections, with the help of his many friends all over the state, are going to place him on the Board of Railroad Commissioners.

Mr. Ward homesteaded in Republic county in 1872 and has since lived there, through the lean years as the others, and has become an extensive farmer, stock raiser and shipper. He served his people for four years as Sheriff and six years as State Senator, and for the last fourteen years has been on Secretary Coburn's State Board of Agriculture. He is a close friend of Mr. Coburn and at all times is a booster for Kansas.

Kansas farming and live stock interests, the most important of the state, have a right to insist that a practical farmer, stock raiser and shipper have a place on the railroad commission, and when "Dick" Ward is elected, they will certainly have one.

Mr. Ward's candidacy has been endorsed by the Republic County Agricultural Association, the North Kansas Racing Circuit (of which he is President), and many other similar agricultural organizations. National Bank of Belleville says: "Mr. Ward as a shipper of an average of 50 cars of stock a year for ten years, certainly knows the needs of the shipper."

Wherever he is known Mr. Ward is recognized as amply qualified with ability, energy and absolute integrity for membership on the Railroad Commission.

Mr. Farmer, you will be acting for your best interests by looking up his name on the primary ballot, among the candidates for R. R. Commissioners, and opposite his name

Mark an "X" for R. B. WARD

Write Our Advertisers About Anything You Need, Mentioning the Kansas Farmer



**Punch-Blade
Pocket Knife**

Handiest Knife Farmer Can Carry

The real knife is much larger than the picture shows. Handle (either wood or stag-horn), is 3½ inches long; full brass bound; heavy name shield. Large blade is 2¾ inches long. Punch blade is 2½ inches long and cuts holes exactly as shown below. Both blades are of finest tool steel, perfectly tempered, finely ground and polished. Very likely you have paid \$1.25 for knives that didn't please you as this one will.

How to Get One, Cost Free

It Comes About In This Way:

This illustration shows the actual size of holes that may be cut with the leather punch blade.



Send us \$1.00 (the regular price) for one year's subscription, either new or renewal, to KANSAS FARMER, and we will promptly mail you, postpaid, one of these fine knives, ABSOLUTELY FREE. If you don't like your bargain after you try the knife, return it and get back your money in full. Address plainly

Kansas Farmer, Topeka, Kan

N. B. Send coupon below or write short letter today—get knife by return mail.

USE THIS COUPON—CUT OFF HERE.

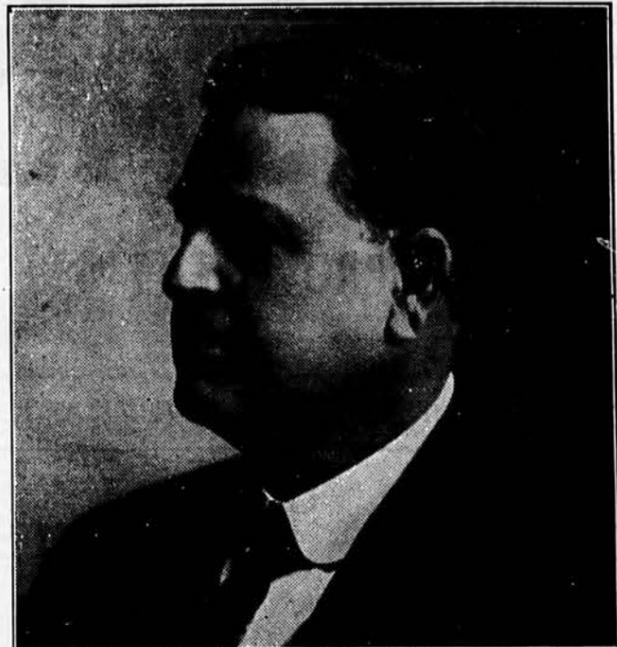
KANSAS FARMER, Topeka, Kan.
Gentlemen:—Enclosed find \$1.00 for one year's advance subscription to KANSAS FARMER.

Name.....P. O.....

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

As a premium send me the PUNCH BLADE KNIFE.

For Congressman, 6th District



I. D. Young, the only Progressive, Square Deal, "Teddy Roosevelt" Republican Candidate for Congress in the Sixth District. The Farmers' Friend, an able Lawyer and Successful Legislator, as shown by his recent brilliant record in the Kansas State Senate in behalf of much of the best legislation of recent years. Is forceful in shaping men and measures.

**Why Republican Farmers Are For
I. D. YOUNG for Congress**

FIRST: BECAUSE HE HAS PROVEN HIMSELF TO BE THEIR BEST FRIEND:

For they know he is personally and largely interested in the great farming and stock-raising industry of the Sixth District, for almost all he is worth is now and has been in farm and farm property in Kansas for more than thirty years.

And while he with his other opponents live in town and farm by proxy alike, yet he with like farm experiences and with his additional legal ability makes him the most capable and best equipped for legislative service in their behalf of them all. This he has proven by his recent brilliant record in the Kansas State Senate, where he led the fight for the enactment of the best laws placed upon our Statute Books in recent years, that has been a saving to all the people of the state in vast sums of money annually.

They know he stands for every tariff or other law that will help our great farming and stock-raising interests—a protective tariff on wheat, corn, beef, hides and all other food products of the farmer, and for free lumber, coal, iron ore, wood pulp, etc.

SECOND: THEY KNOW HE WAS IN THE FOREFRONT IN THE GREAT TRANSPORTATION BATTLE IN THE KANSAS STATE SENATE.

And that he ably advocated with voice and vote, and made possible the passage of the railroad law which no state has yet excelled. He it was, that introduced and urged a maximum freight rate law, and stood for a two cent fare law, the anti-pass law, and was the first to urge the passage of a law limiting the issue of stocks and bonds on transportation companies, and aided in the passage of many other laws of like nature, which not only affects the farmer but our whole citizenship and our every industry, as well.

The farmers of the Sixth District are food producers and are at the end of the long haul to market, and are large consumers of manufactured products and are also at the end of the long haul for such necessities, are paying a transportation tax out of all proportion to what is given to terminal points and are thereby building up large cities at the expense of our people here. This is wrong.

Because he believes in the government spending less millions in Idaho irrigation, and more millions in the conservation of the rainfall in those parts of the district where needed.

THIRD: BECAUSE THE REPUBLICAN FARMERS OF THE DISTRICT BELIEVE IN THE "ROOSEVELT POLICIES."

And know that Senator I. D. Young is the only candidate in the Sixth District who believes in and has flatly declared for the "Progressive, Square Deal, Roosevelt Policies," and is standing with the administration to make them successful, believing them to be the most effective measures to keep up our high state of prosperity, and at the same time prevent the conspiracy of organized greed and avarice from levying unjust transportation taxes and heavy and unjustifiable trust burdens upon the toil and efforts of our people. He is therefore a firm believer in keeping step with the onward march for better government.

You, therefore, owe it to yourself, your neighbor and country as well, to send a man to Congress who will stand for and is capable of defending all the foregoing interests, which means a

Vote for I. D. Young for Congress



KANSAS FARMER

EDITORIAL



BRINGING SCHOOLS TO FARMER.

To Hon. E. T. Fairchild, State Superintendent of Public Instruction, belongs the credit of calling the first annual conference of county superintendents of schools. To him also belongs the credit of having made these conferences so successful that there is now a practically unanimous demand for another. This demand has been met by the announcement of a fourth conference to be held at the State Agricultural College on August 9-10-11.

As Superintendent Fairchild is the foremost man in his position in the United States to advocate and put into practical use the idea of teaching agriculture in the public schools, so he is the first state superintendent to call a conference of this kind at an agricultural college.

There is a rich treat in store for those who attend this meeting and the county officials will receive instructions in the most important subjects from the highest authorities. Following an address by Pres. H. J. Waters, on "The Trend of Modern Education," there is provided by the college officials an elaborate program in which lectures and demonstrations on such practical subjects as "Tree Planting and Pruning," "Corn Judging and Corn Types," "Education Back to the Farm," "A Lesson in Soils," "Seed Testing," "Types of Cattle," and "The Handling of Dairy Apparatus" will be provided. Other matters of special interest will be discussed and the program as a whole is a full one.

Superintendent Fairchild has here inaugurated a movement which will mark an epoch in the educational methods of the west. Recognizing the fact that agriculture is the foundation industry of our nation and that, with the advancement of our civilization, there must come a proper attention on the part of our educators to this great industry through which our nation thrives, Superintendent Fairchild has arranged to place these county officials in closer touch with its fundamental principles and with the idea of their importance in our school system by meeting with them at the Agricultural College, which is the source from which is drawn our scientific and practical information about matters pertaining to the farm and home.

Ever notice how the traveling public will roar when they try to get a drink of water on a railroad train in Kansas and find there is no drinking cup supplied? Kansas people did some roaring at first themselves, but a little experience has taught them the wisdom of the law which prohibits the use of public drinking cups. How often has one been compelled to sit in a car on a long journey and watch the constant use of the drinking cup by all classes of people, and how frequently it was true that it was misused to the discomfort of the traveling public. Aside from the danger of contagion which exists in such a drinking cup, the common comforts of life should forbid its existence. Passengers do not hesitate to pour medicine or whiskey into the public drinking cup and then set it down unwashed after it has been used. It is not uncommon to see the cup made use of in the operation of brushing the teeth and then returned to its place with no cleansing. As there was no rule or law to compel decency in the use of the public cup it was better to abolish it entirely. Individuals can provide themselves with collapsible cups, or can buy for one penny the paraffined paper cups at the stations or on the cars or, in an emergency, can fold the corners of an envelope together and use that. Experience of the few short months during which this law has been in operation seems to justify it and it is now believed that the public would not return to the use of the public drinking cup if they had an opportunity.

The pocket book is the most sensitive part of the human anatomy.

No statements in any political advertisements in this paper are to be construed as coming from, or endorsed by the editors.

With which is combined FARMER'S ADVOCATE, established 1877.
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SUBSCRIPTION PRICE—\$1.00 per year; \$1.50 for two years; \$2.00 for three years. Special clubbing rates furnished upon application. The expiration date of subscription will be found on the label on your paper. We must be notified in writing when the subscriber desires the paper stopped. Returning the paper is not sufficient, as we cannot tell from the label alone what the address is. Both name and address must be given.

ADVERTISING RATES—25 cents per agate line, 14 lines to the inch. Announcements of reputable advertisers respectfully solicited. No medical nor questionably worded advertising accepted. Forms close Monday noon.

PUBLISHERS' GUARANTEE TO SUBSCRIBERS—KANSAS FARMER aims to publish advertisements of reliable persons and firms only. We guarantee the reliability of our advertisers as follows: We will make good to any paid-up subscriber, any loss he may suffer, thro' fraudulent dealing on the part of any of our advertisers, provided complaint is made to us within thirty days after the transaction, and it is shown, that the subscriber in writing to the advertiser, plainly stated that "I read your advertisement in KANSAS FARMER." We do not, however, undertake to settle, or be responsible for petty or trifling disputes between a subscriber and an advertiser, though we extend our good offices to that end.

PICTURES—Good photographs, drawings or plans are especially solicited. Senders' names should always be written on the back of each picture. KANSAS FARMER cannot be held responsible for the loss of any picture submitted.

CONTRIBUTIONS—KANSAS FARMER is always glad to have correspondence on all farm, livestock, or household subjects. Your name should be signed to all communications and they should always be addressed to
KANSAS FARMER COMPANY, TOPEKA, KANSAS.

COUNTY EXHIBITS AT FAIR.

There is perhaps nothing that gives one so keen an interest in his county or state fair as to become an exhibitor. Many feel that they can not enter as such unless they have pedigreed live stock to show and even those who own this class of stock hesitate to enter it because of the labor and expense involved in fitting. It is not necessary to own a herd of pure bred live stock in order to be an exhibitor at a rightly conducted fair. It is not necessary to limit one's ambition to the county fair. As the county fair is intended to be an exposition of the resources of that county given for the benefit of the citizens as well as the visitors, so a state fair should be an exposition of all of the resources of the state given primarily for the education of its own citizens. The individual can show in any one of the classes offered in the well adjusted premium list without the necessity of getting up a large and comprehensive agricultural, horticultural or live stock exhibit, and if he wins a prize the expense incurred is generally offset by it, while if he should not win a prize he will still have the patriotic satisfaction of knowing that he has helped to make the fair a success.

During the latter part of the summer season numerous premium lists are received at the KANSAS FARMER office and most of those that are issued by the state fair associations, as well as many that are issued by county associations, provide for county collective agricultural exhibits. One of the earliest premium lists was that issued by the Kansas State Fair Association of Topeka, and one of the prominent features noted in this premium list is the liberal offering made for county collective agricultural exhibits. The prizes range from \$200 for the first prize down to \$110 for the fifth premium with \$100 each for five additional premiums. These prizes are so arranged that individuals or associations may collect and show the exhibits under the name of the county from which they come. Already a number of entries have been made, and it is believed that this will constitute one of the big features of the show at Topeka on September 10 to 17. Those who are interested, and who feel that they owe a patriotic duty to themselves and their state should begin to make the necessary collections at once. Premium lists will be sent to all who write for them to Secretary H. L. Cook, 123 West 7th St., Topeka, Kan.

Don't take too much pride in family trees. The fruit crop may be a failure.

If we could see ourselves as others see us, we simply would not believe our eyes.

CATALOG OF K. S. A. C.

The catalog of the Kansas State Agricultural College is just now being mailed out and contains a vast amount of information about our great industrial school. It shows an attendance of more than 2,300 students from practically every county in Kansas, and a few from other states. A number of new features are indicated in the catalog and these go to show that the Kansas State Agricultural College is getting closer and closer to the needs of the people of Kansas. Such practical subjects as corn judging, stock judging, cooking, sewing, budding, drafting, handling dairy apparatus, wood and iron work in shops, etc., are introduced now the first week a student enters college, these subjects beginning in the first sub-freshman year. The catalog may be had by addressing the President Agricultural College, Manhattan, Kan.

Editor Kansas Farmer: In the issue of Kansas Farmer of July 2, I was much interested in an editorial on the subject of the correspondence school idea. I want to thank you for the very sane and conservative, but at the same time commendatory words which you had to say about this new departure in public education. It is perfectly true that the commercial correspondence schools have been doing this work for years and making a great success of it. There is no reason why an institution like the Kansas University, supported by public taxation, should not in every way possible attempt to bring its resources within the reach of as many people as possible in the state. This means not only those who can come to Lawrence, and also those who are unable to leave home. The idea and method of correspondence instruction have proven themselves to be successful, and to produce results. Some of the college branches are not susceptible of treatment in this way, but a great majority of them are. I believe that you and I will both live to see the day, and that within a few years, when correspondence instruction in the State University, and by other educational institutions, will be taken as a perfect matter of course, and will be turning out yearly a large number of earnest and well equipped students. The work here is starting out successfully, and has already produced a great deal of interest among the people of the state. I thank you for the interest you have shown.—Richard R. Price, Director, University of Kansas, Lawrence, Kan.

It may seem strange that the cities are so overcrowded when there is so much work in the country but that is just the reason.

Personal integrity is a valuable asset. We once heard of a man whose statements were so unreliable that he had to employ a neighbor to call his dogs.

THE SUMMER PICNIC.

Rest is one of the inexorable laws of nature just as surely as work. No man can work continuously and do his best. Long periods of work without rest will lower the average of his output whatever that may be. The farmer needs rest as well as anyone else and rest with him, as with others, means a change more than it means anything else. Pure idleness is not rest except for a very limited time. The feature of enjoyment is always an essential one in any thought of a vacation from daily toil. Some men work for many years continuously and then take a long vacation in the hope that they can recuperate and gain back the old vigor which has been expended in their long service of toil. Others take a saner view of life and get shorter vacations at more frequent intervals. The change of scene is the important thing in any vacation. This may be had by going to Europe, to the Rocky Mountains, to the Great Lakes or to the creek at the back end of the farm.

If one can have his vacation and his change of scene with its accompanying enjoyment and at the same time add to his store of information, he will double his enjoyment and future satisfaction. And right here is a suggestion to the farmers of Kansas. When the stress of the harvest days is over and the corn is laid by, why not join with some of your neighbors and make a trip to the Agricultural College or to the Fort Hays Experiment Station? The writer has been in every county in Kansas and has found them full of delightful places for the spending of a vacation period, but in all this broad state there is no place more delightful and at the same time more profitable to visit than is the State Agricultural College at Manhattan. During the vacation period the experimental plots are at their best, the live stock feeding and breeding operations are under way, the silos are being filled, summer dairying is being practiced, and a world of other things are available to the sight seer who has the advantage of being able to call upon some of the college officials for information who can now more readily respond than when their time is so fully occupied with the care of classes.

It has become a popular thing in western Kansas to make up automobile parties to visit the Fort Hays Experiment Station and the writer had the pleasure of meeting one party that came over a distance of 92 miles in the rain for the purpose of attending the big farmers' meeting held there early in June. With the good roads of western Kansas a matter of fifty or a hundred miles' travel is a small thing compared with the value of the splendid object lessons which are always there and ready for assimilation. We venture the assertion that no farmer who visits either of these institutions, both of which are under the same management, will have cause to regret either the time or the expense incurred and we believe that he will feel thankful for the suggestion.

Senator Smoot of Utah has been doing a little figuring. He finds that, as compared with the prices of 1896, the farmer is now getting much more for his produce.

"While the prices of practically all commodities have shown some advance during the past few years," he said, "the products of the farm show a much greater advance than do the prices of the products of mines and factories."

To illustrate this he presented the following specimen increases: Corn, 118 per cent; wheat, 83 per cent; cotton, 92 per cent; oats, 132 per cent; rye, 117 per cent; barley, 126 per cent; hay, 49 per cent; hops, 340 per cent; potatoes, 73 per cent; flaxseed, 142 per cent; fat cattle, 92 per cent; fat hogs, 172 per cent; dairy butter, 57 per cent, and eggs, 107 per cent.

"Instead of having to market the grain as soon as harvested and the cotton as soon as picked, the producer is now in a position to hold his crop and market it on the best possible advantage. Finally the farmer has become independent."

Need More and Better Dairy Cows

We have in the state of Kansas something like 700,000 dairy cows, having an average yearly production of less than 130 pounds of butter per year, which is less than the average cow of the United States produces. If we can, through better care, feeding, or by selecting and breeding, increase this product, even slightly, it means a large sum when applied to the state as a whole. Supposing we were to increase the average product of butter fat only 10 pounds, this would mean an increased production for the state of 7,000,000 pounds, which at 25 cents a pound would amount to \$1,750,000. We should be able to bring the average up to twice the present amount or 260 pounds. This is not a large yield for a dairy cow. Many entire herds average over 400 pounds of butter fat. This would increase the present production 91,000,000 pounds and the annual income of the state \$22,750,000.

The only differences that exist or that can possibly exist between the poorest and the best dairy cow of the state will be found in the feeding, breeding and individuality of those animals; hence, since the foundation of the dairy industry must of necessity rest largely, in fact, almost entirely with the dairy cow, it is readily seen why we put special emphasis upon the above vital factors in the dairy business.

The breeding of high class, successfully performing live stock of whatever kind, be it race horse or dairy cow, carries with it a fascination that is exceedingly hard to resist. The problems connected with breeding are complex and intricate, and failures are frequent; but yet the prize, if won, is so great and far reaching that it is not to be wondered at that so many have given a large part of their lives to the task. In spite of the red corpuscles that have been sacrificed to the cause of breeding, there yet remains much to be learned about this subject. In fact, most of it is shrouded in mystery. However, there has been gleaned here and there during all these years of research a few fundamental facts upon which we may base our plans with comparative safety, and which will be found very helpful to the breeder in making the most out of his breeding operations.

Individuality.—There is a tendency, a strong tendency, for the individual to reproduce itself in kind. This is a well known point in breeding and the longer these tendencies have been at work along a certain line the stronger and the surer will the individual transmit his characteristics. Illustrations of this abound on every hand; both plant and animal life is the direct embodiment of this truth. The color and fragrance of the rose is not based on mere chance. The color markings and conformation of dairy stock follows the direct road of greatest individual and ancestral backing with wonderful persistency. Have you ever heard of a pure bred Hereford that did not possess the characteristic markings of the breed?

To be successful in breeding it is necessary to work with and not against nature. Her laws must be observed. To the average dairyman, his chief aid on the subject of breeding lies in the assistance such knowledge will be to him in enabling him to a quicker realization of the results from successful breeding. It is a question with him as to the quickest, most direct and cheapest method of possessing a profitable dairy herd in the short space of time. Experience soon teaches the dairyman that it is very expensive, in fact, almost out of the question, for him to purchase a large producing herd without the expenditure of more money than is generally available for such a purpose. Desirable animals are none too plentiful and when found they are generally not for sale at all, or only at prohibitive prices, so that the successful dairyman is compelled to raise his own herd.

The question of how and where a dairy farmer can secure a good 1 of business cows is one of the most puzzling problems that confronts the man who is contemplating going into dairying in Kansas. We have few breeders of pure bred stock in the state, and very few localities where any considerable number of dairy ani-

In Kansas Which Will Mean More and Better Dairy Products

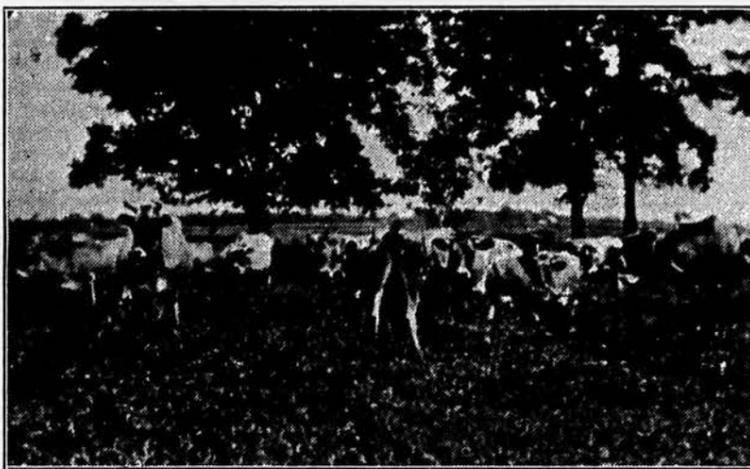
BY J. S. KENDALL

mals can be purchased at one time. There is to my mind no field of brighter prospects for those adapted for the work than that of raising pure bred and high grade dairy stock to meet the home demand which now has to be satisfied by shipping in stock from other states, which is decidedly to the advantage of the farmers of other states and to the direct disadvantage of the Kansas farmer.

In every herd there will be found great differences in the producing capacities of the different animals, and especially is this true of the yearly records made by the cows in our herds. Some animals barely pay for the feed which they consume; such animals are unprofitable and lower the average production of the herd. It is safe to say that in nearly every herd in Kansas about one-third of the animals can be disposed of without materially affecting the profits from the herd. This brings us naturally to a more careful consideration of the individuality of animals, as it has an important bearing upon the question under discussion. While, as we have stated above, there is always a tendency for life to reproduce itself in kind, which has given rise to the phrase, "like produces like," this is never really accomplished without individual differences appearing. The

and labor too valuable to be wasted on cows that will not return at least 300 pounds of butter fat per year.

If we were to go into a herd and weigh the milk given by each animal for one day, or preferably two days, in each month, a very easy thing to do, we would have a good idea as to the work of each cow as a milk producer. If we are interested in the quality of the milk given, and we generally are, that is, the amount of cream or butter each cow will produce, this can be quite readily determined. Each month when the milk is weighed, save a small sample from each milking after it has been thoroughly mixed, and place in a small jar with a tight fitting lid, for the fat test. In taking these samples, care should be exercised to see that a proportionate amount of milk is taken from each milking, because the quantity of milk as well as the quality varies from one milking to another. The test for fat may be made by the local cream buyer or creamery where they are generally glad to do this work, or the dairyman can make his own test, which requires but very little outlay of either time or money, and the detection of even a single one of these grafting bovines will more than offset the labor and expense.



Choice Kansas Jerseys.

greatest variations are to be found where parents vary most from one another, and especially will this be so in cases where these differences are in each parent reinforced by ancestral backing of several generations, as would be the case where animals of two distinct breeds are mated. Sometimes the dairyman tries, through the mating of two distinct breeds, to endow the offspring with the desirable characteristics and the best there is in both parents. He mates Holsteins and Jerseys expecting the result of their union to possess the large producing capacities for which the Holsteins as a breed are noted, with the richness and high coloring of the milk which is possessed by Jersey milk. Such efforts are doomed in the end to fail. This "violent crossing," as it is called, has a tendency to destroy the value of the pedigree rendering ancestral backing useless or at least very unreliable, hence, we would expect to find the offspring to be more like his parents the closer they resemble each other as individuals and as to their line of breeding; but in all cases the individuality of the animals will be such that the successful breeder will find it of the utmost importance to cull his herd and select his breeding stock with the greatest of care. In the dairy animal sometimes these differences are apparent to the eye, but more often due to the complexity of the functions of the dairy cow, these differences, especially as to milk and butter production, are detected only through the aid of the scales and the Babcock test which are the safest and the surest guides that can be followed. These instruments are to the dairyman what a cash register is to the business man. Life is too short

A few years ago this station bought thirty head of cows and shipped them in from different parts of the state. They were of all colors and of no special breed or breeding, such cows as are to be found on hundreds of Kansas farms. Careful records were kept of the individual cows in this herd for two years and some very valuable lessons are to be learned from these records. Space will not permit us to go into the details of the work done by these animals, further than to call attention to a few striking points. Four cows in this herd of thirty returned a net profit of \$49.40 per year, three lacked \$7.68 of paying for the feed which they consumed, while four returned a net profit of \$8.65 per head. The three cows returning a net loss of nearly eight dollars apiece would offset the net profit made by a like number of cows that returned about eight dollars profit. These six animals could have been removed from this herd of thirty without materially changing the returns from the herd. There was one animal in this herd, a grade beef cow, by no means a stranger in our herds, that was such a poor excuse for a dairy cow that to make up the loss created by her would have required the profits made by three of those average poor cows in the herd. That makes practically ten cows in that herd of thirty that could have been removed and just as much money been realized off of the herd.

The above returns are not given with the idea of exaggerating in any way existing conditions. We firmly believe that the similar comparisons may be made in hundreds of farms in this and other states. If a third of the time that is now given to milking and caring for these profit parasites,

was devoted to locating and eliminating them from our herds we would have less work to do, and realize larger profits from the dairy business.

With the reliable information of a herd at hand, which can be furnished through the aid of the Babcock test and scales, the dairy farmer is then prepared to take his first step in building up a profitable dairy herd, which is, to send to the butcher all cows not capable of bringing in a good profit over and above what it costs to keep them.

We take the position that if in a herd bought up in this way there would be four fairly good dairy cows that with a little search the dairyman could find some more equally as good and even better with which to start his herd. Twenty-one cows, even no better than the four best ones in the above herd, and they were not by any means exceptional cows, would be equal as far as the net returns from a herd of 116 that returned only about eight dollars profit. Eliminating the feeding, sheltering, and milking of those extra ninety-five (95) cows is something worthy of careful consideration.

The next step is the purchase of a good bull to head the herd. It is not enough that this be a pure bred animal; in addition to his being a good individual and a good representative of the breed, his immediate ancestors must have been profitable producers of dairy products. A mistake made in the selection of this animal may not be detected for a long time, and it will take years to correct it. This animal, if the dairyman is in earnest and is desirous of improving his herd, is easily worth \$500 to the dairyman if he is what he should be. He is worth this sum from the standpoint of increased production, leaving all other considerations out of the question. If his dam and his sire's dam have been capable of producing 9,000 to 10,000 pounds of milk per year, and the herd consisting of average grade stock having an average yearly production of less than 5,000 pounds of milk, it is reasonable to assume that his heifers will be capable of producing at least three pounds more milk per day, or practically 1,000 pounds more milk in a year than their mothers. If this is average milk it should contain 40 pounds of butter fat which, if sold at 25 cents per pound, would amount to \$10. We would expect a dairy cow to be kept in use at least four years, which would mean an increased earning capacity of \$40 for each heifer during her life-time. It would be reasonable to expect to raise six heifers each year if one had a herd of twenty cows; that would mean \$240 as the increased earning capacity of these six heifers during four years of their lives. On the average, the sire would be kept in service for at least three years, and the earning capacity of the three crops of six heifers during four years of their usefulness would amount to \$720. This is not taking into consideration the increased value of these animals for future improvement, and it does not take into account the other fourteen calves each year, and since the number of cows could easily be doubled, this animal can be shown to be worth over \$1,000, and offers one of the best investments for the dairyman to make if he is really in earnest and desires to own a good herd.

In a grade herd of twenty cows, a bull costing \$150 would only represent about one-ninth of the investment in the herd. But he is to be half of the future herd. In the cases where a pure bred bull is used in a grade herd he is considerable more than half of the herd.

Any community in the state that will select one breed of dairy cows, the breed that seems best suited to the local conditions, and follows out a systematic plan of herd improvement for a few years, using only pure bred bulls, will in a few years establish a reputation such that buyers will be attracted there to purchase their surplus stock, the culls even from these herds, at prices that will be entirely satisfactory to the farmers, and their herds will be continually growing better. At least that has been the history of community dairy breeding associations in many other states.

THE FARM



HAVE YOU?

A large number of our subscribers have taken advantage of our numerous present subscription renewal offers, and paid ahead their subscriptions for from one to five years. One of our good friends, the other day, wrote: "I have been taking KANSAS FARMER for a number of years. Find enclosed \$5.00 to pay me ahead as long as the money will pay for. I want to be sure and not miss any of the issues." KANSAS FARMER will be the one paper more than ever that our farmers and stockmen will find of greatest value, no matter how many others they may be taking.

If your subscription is in arrears, you cannot do better than to send your renewal at once, and make sure of future issues. There are plenty of good things coming in our columns—things you will be bound to like.

While you think of it, send your check for at least a year ahead. Or if you like, send for our complete list of special renewal offers.

Alkali Spots.

Alkali spots are very common in Kansas and particularly so in the valleys of certain streams which have a heavy soil. They have been a trouble to farmers since the first settlement of the state. As a rule they are not large though the aggregate is considerable. Just how best to handle them still remains a question as they interfere with both the appearance and productiveness of the fields in which they are located. They are frequently found in old buffalo wallows or in other depressions which have much the same appearance, and in which the water stands until it evaporates, leaving a white coating of the salt on the surface.

It is admitted that these spots are composed of valuable land and would yield satisfactory crops but for the accumulation of the salts on the surface which destroy the growing vegetation. An old custom, and one which yet prevails to a large extent, was to cover these buffalo wallows or alkali spots very heavily with stable manure and allow it to remain there for some time, when the land would be plowed and the manure turned under. This afforded relief and was good as far as it went. It is not thought that the presence of alkali in the body of the soil is a preventive of crop growth but only that which appears on the surface and which is acted upon by both sun and rain to the detriment of any crops which may be planted on these places.

A better way to cure this evil is to get at the root of the trouble instead of trying to doctor it from the surface. If the water level below the surface of the soil can be lowered by drainage, the alkaline salts will not form on the surface because the water which is charged with them will be removed before they have time to separate from the soil and crystallize by evaporation.

Tile drainage offers the best solution for problems of this kind if it is well and properly done, but it so happens that with some classes of drain tile the chemicals composing the alkali salt will act upon the tile itself and cause them to disintegrate.

Tiling is not such an expensive operation after all if handled rightly. Common fence boards nailed together in a V shape, like a pig trough, and inverted in the bottom of the trench will answer the purpose provided they are covered with straw or manure to a considerable depth before the earth is replaced. These are free from any injurious action by the chemicals of the soil and will last practically as long as the drain tile of commerce.

Of course the manufactured tiling is vastly better for general use by reason of its porosity which serves to admit the water particles throughout the entire length of the drain instead of at the joints as is the case with the board tiling, but where there is danger of corrosive action by soil elements, the boards can be made to take their place and will last indefinitely.

Like any other permanent work that may be undertaken, care should be used in laying a drain tile what

ever may be the material used. Levels should be found and the tile laid according to them, so that drainage is assured at any time of the year. The main tiling should be much larger than the laterals as it will have to carry the combined accumulation of water from all of them.

With land properly tilled in this way the water level is lowered and if the alkali spots are covered with manure, which is later plowed in, no trouble need be expected in the future from this source.

Overheating Horses.

Horses under five years of age are more likely to suffer from "sunstroke" or overheating than are those which are more mature and more seasoned to work. For this reason young horses should be worked lightly during the hotter days of summer. Overheating or "sunstroke" in horses usually shows itself in the form of indigestion first and this is indicated by a dull, sluggish appearance and panting when at light labor. Sweating in the barn and a changeable character of the manure which sometimes assumes a light clay color and covered with mucous are indications of overheating. When this stage is reached it is very dangerous to work the animal.

As preventive measures, the veterinarian of the Wisconsin Experiment Station recommends slight changes in food, more care in feeding, rest and simple correctives in such cases, and preventive measures may be adopted as follows:

Feed hay night and morning only; give drinking water before meals, and in small sips often when at work; prefer clean, soft water to that rendered "hard" by the presence of lime salts which tend to derange the stomach. Remove the harness at noon, and allow sufficient time for rest and mastication of food; groom the skin thoroughly once daily; feed sound food; avoid corn in summer, as it is heating; prefer sound old oats, which repair waste of tissue and promote vim and endurance; avoid sudden changes of food, and do not feed heated green grass or clover.

Cleanse the stable daily, ventilate perfectly, screen doors and windows, remove manure piles from the vicinity of the stable; feed fresh food each meal. Shade the horse's head when at work, but avoid a heavy, wet sponge; if possible, do not work three horses abreast, as the middle horse suffers thereby and is the most liable to sunstroke; where such combination cannot be avoided, change horses often to afford as much relief as possible. Choose the coolest hours for work, and change teams often during sultry, moist weather when thunder storms are prevalent.

The best way to destroy faults in an animal is to begin with his grandparents. So the best way to destroy weeds in next year's crops is to destroy their ancestors this year. In doing this remember two things. If your own fields are clean you do not spread weeds to your neighbor's fields, and the best time to kill weeds is just before they appear above ground.

SAVE \$100 to \$500

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There's no hard work when you crib your grain the "Little Giant" way. Drive your load right on the wagon dump or jack, throw clutch in gear, start horsepower or gasoline engine, then rest. The grain goes up to any height and the biggest load is all stored within a few minutes. When wagon is empty shift clutch—wagon comes down automatically—and you drive off for another load. The

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Which wheat did you raise?

Were there forty good, sound, heavy kernels to the head or fifteen light ones? Was the straw big and weak? Did the crop lodge? Did it rust? Was the yield fifteen bushels less than it might have been? Did you get the best possible return for your time, labor and trouble?

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Think about these things and ask yourself if you fed the crop right. Did you do any real thinking before buying your wheat fertilizer or did you just buy the "same old brand"?

A wheat fertilizer should contain from 6 to 10% of Potash. If it is not in the old brand, buy some Potash and put it in. We will sell it to you or your dealer—a carload or a ton. Write for prices.

Send for our Free New Pamphlet, "Fall Fertilizers" showing you how to improve the old brand or make better ones at home for less money. It will pay you, for Potash Pays.

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Look for the name on the Republican ticket at the primary August 2. He was treasurer of Ionia county for years and is considered The Best Man In The Field.

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MEETING OF KANSAS GRAIN GRADING COMMISSION.

Notice is hereby given that under the provisions of Chapter 222 the board of grain grading commission will meet at the office of the Governor in Topeka, on the 25th day of July, 1910, and establish the grades of grain to be known as Kansas grades; to be in effect on and after the first day of August, 1910.

G. W. Glick; Thomas Page; J. G. Maxwell, Secretary, Grain Grading Commission.

JUST A WORD TO THE BREEDERS AND FARMERS.

G. M. Hull, Garnett, Kan., will hold his sale Oct. 26, 1910, of one hundred head of the big type Poland Chinas, sired by five of the best boars in the United States. You can get just what you are looking for from this lot. Write for a catalog early so your name will be on our books.

BOARS.
Hadley Boy 4809 by Hull's Hadley 35344, Wm. Garrett 53037 by Mastodon Chief 53040, Big Hadley 40832 by Hadley Jr. 38352, Blain's Wonder 38717 by Johnson Chief 35774, King Blain 48506 by Blain's Wonder 38717.

SOWS AND THEIR SIRE.
Sunshine (1285543) by Bell Boy 46145, Midnight (111263) by Champion Chief 32307, Dud's Daisy (111263) by Tip Top Dudy 31621, Long Jane Lady (115977) by Chief Goldust 39244; Standard Lady (111263) by Standard Tecumseh 46114, Royal Beauty (128553) by Chief Goldust 39244, D's Made Right (129715) by Designer 39199, Big Beauty 24 (120156) by Long John 44410, Kansas Queen 4th (32399) by Neb King 12227, Black Lad (127912) by O. K. King 42071, Iola, Garnett (127913) by Columbia Chief 24 42528, Miss Garnett (127908) by O. K. Price 42071, Queen Likeness (131160) by Expansion John 49945, Early Alice (127910) by O. K. Price 42071, Kans. Queen 2J (323988) by Neb. King 12227.

Mail bids may be sent to either auctioneer and they will be treated high class. Col. C. E. Bean is on the ground and can give you any information you wish by writing him.

Auctioneers—Col. C. E. Bean, Garnett, Kans.; Col. Jas. W. Sparks, Marshall, Mo.; Col. H. Hohenstein, Chelsea, Okla.

WANTED EVERYBODY TO FEED CHICK-O
to baby chicks. "Just the feed and all they need."
D. O. COE Topeka, Kansas.

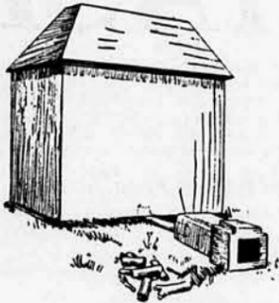
Home Cured Pork.

It is not altogether true that butchering and preserving meats for family use on the farm, continues solely as a matter of custom. Where one is equipped for such operations it may be made a matter of economy as well. The perfection of the product of the packing houses is such that very many farmers prefer to buy their cured meat, rather than go to the added expense and trouble of preparing their meat at home. It is true, however, that home cured meat, when properly done, has a quality and flavor that is not to be found elsewhere, and that well repays the farmer for any efforts he may put forth along this line.

To properly cure pork it is necessary to be equipped with a scalding tank, and some kind of a device by which the heavy animal can be readily and easily handled, during the process of scraping and cutting up. It is also necessary that a suitable smoke house be constructed. Too often the work of curing meat is done in such a makeshift manner, that the results are far from satisfactory, and even though the meat can be used as food, it is not palatable or possessed of the superior quality and flavor which characterizes the best of home cured meats.

Some of the best and most deliciously flavored ham that the writer has ever eaten was cured on a farm in a building constructed as shown by the drawing herewith. Most smoke houses are so arranged that a fire is built in the building and beneath the meat. This is objectionable for two reasons, the first of which is the danger from fire, and the second is found in the amount of heat which rises in the building and surrounds the meat during this process of curing.

The building shown in the picture is an ordinary frame structure, but is



fitted with a cement floor, in the middle of which there opens a four inch drain pipe through which the smoke is conducted from the small furnace shown at the outside. This furnace is built of cement concrete, and is supplied with an old stove door in which is a ventilator capable of being opened to insure a draft sufficient to carry the smoke through the pipe and into the building. Aside from the purchase of a small amount of cement, the materials necessary for this furnace construction were all found on the farm.

As in the preparation of any material which is intended for human food, care should be exercised, and if this little additional care will produce an added quality and flavor in the products, it has paid for itself. It is not recommended that an animal should be killed within twenty-four hours after feeding. This applies especially to animals that have been on full feed, as it is impossible to thoroughly drain the veins, and the food in the stomach will rapidly decompose after the animal is killed. In doing this gases are generated which will disagreeably affect the flavor of the meat. The animal may be watered up to the time of slaughter, as this will serve to keep the temperature normal and help to cleanse out the system. The result of handling a hog in this way is a nicely colored carcass which, if properly cured in a building equipped as the one here shown, will mean a delicious food product for the family's winter supply.

There is undoubtedly a difference in results obtained by the use of different materials for producing the smoke. Long experience, backed by accurate experiments, show that hickory wood is undoubtedly the best material from which to procure the curing smoke. There is a peculiar flavor to pork that has been smoked by the burning of hickory wood that is not obtainable in any other way, and that is thoroughly enjoyed by every member of the family.

Kansas Fairs in 1910.

Following is a list of fairs to be held in Kansas in 1910, their dates, locations and secretaries, as reported to the State Board of Agriculture and compiled by Secretary F. D. Colburn:

- Allen County Agricultural Society, Frank E. Smith, secretary, Iola; August 20-September 2.
Allen County—Moran Agricultural Fair Association, E. N. McCormack, secretary, Moran, September 14-18.
Burton County Fair Association, W. F. Feder, Secretary, Great Bend.
Brown County—The Hiawatha Fair Association, C. A. Monney, secretary, Hiawatha, September 6-9.
Butler County Fair Association, W. F. Benson, secretary, El Dorado, September 20-23.
Butler County—Douglas Agricultural Society, J. A. Clay, secretary, Douglas, September 28-October 1.
Clay County Fair Association, Walter Puckey, Secretary, Clay Center, September 12-16.
Clay County—Wakefield Agricultural Society, Eugene Elkina, secretary, Wakefield, October 6 and 7.
Cloud County Fair Association, Fred W. Sturges, Jr., secretary, Concordia, September 20-24.
Coffey County Agricultural Fair Association, Henry Jackson, secretary, Burlington, September 27-30.
Cowley County Agricultural and Live Stock Association, F. W. Sidle, secretary, Winfield, August 20-September 2.
Covley County—Eastern Cowley Fair Association, W. A. Howden, secretary, Burden, September 7-9.
Dickinson County Fair Association, Charles Morton, secretary, Abilene, September 27-30.
Douglas County Fair and Agricultural Society, Elmer F. Brown, secretary, Lawrence, September 27-30.
Elk County Agricultural Fair Association, J. J. Marshall, secretary, Grenola, September 21-23.
Franklin County Agricultural Society, J. E. Shinn, secretary, Ottawa, September 20-23.
Gray County Agricultural Society, Chas. Eull, secretary, Cimarron, September 29 and 30.
Greenwood County Fair Association, H. T. Scott, secretary, Eureka, August 23-26.
Harper County—Anthony Fair Association, L. G. Jennings, secretary, Anthony, August 2-6.
Harper County Agricultural Association, S. C. Lobaugh, secretary, Harper, September 27-30.
Leavenworth County Fair Association, C. A. Sparrow, secretary, Leavenworth, September 5-8.
Linn County Fair Association, John O. Morse, secretary, Mound City, September 27-30.
The Inter County Fair Association, C. A. Spencer, secretary, Oakley, August 31-Sept. 1-2.
Lyon County Agricultural Society, D. P. Cowan, secretary, Emporia, September 20-24.
McPherson County Agricultural Fair Association, Carl A. Grant, secretary, McPherson, August 23-26.
Mitchell County Agricultural Association, W. S. Gabel, secretary, Beloit, September 28-October 1.
Montgomery County Fair Association, Elott Irvin, secretary, Coffeyville, September 27-30.
Nemaha County Fair Association, W. H. Fitzwater, secretary, Seneca, September 14-16.
Ness County Agricultural Association, H. M. Gilmore, secretary, Ness City, September 28-30.
Norton County Agricultural Association, M. F. Garrity, secretary, Norton, August 28-27.
Ottawa County Fair Association, J. E. Johnson, secretary, Minneapolis, October 4-7.
Osage County Fair Association, E. J. Williams, secretary, Burlingame, September 6-9.
Fawnee County Agricultural Association, Harry H. Wolcott, secretary, Larred.
Pratt County Fair Association, E. L. Shaw, secretary, Pratt, August 18-19.
Reno County—Central Kansas Fair Association, A. L. Sponsler, secretary, Hutchinson, September 10-17.
Republic County Agricultural Association, C. M. Arbuthnot, secretary, Belleville, September 6-9.
Riley County Agricultural Society, C. F. Elmer, secretary, Riley, October 11-14.
Rooks County Fair Association, Charles Hiseley, secretary, Stockton, September 6-9.
Saline County Agricultural, Horticultural and Mechanical Association, O. H. Hocken-smith, secretary, Salina, August 30-September 2.
Shawnee County—Kansas State Fair Association, H. L. Cook, secretary, Topeka, September 10-17.
Sheridan County Agricultural Association, C. R. Pearson, secretary, Hoxie, September 1-3.
Sheridan County—Selden District Fair Association, C. C. Malcolm, secretary, Selden, Aug. 20-Sept. 2.

LESS SEED BIGGER CROPS

PROTECT WINTER WHEAT FROM FROST

If your winter wheat is not planted properly with a good drill, thousands of seeds are sure to be killed by frost, and just that much ground stands idle because the seed did not grow. Still more ground will stand idle because seeds were planted too close together, and the plants will starve because they cannot all get enough nourishment.

Are you not losing money when you waste seed this way, and lose the use of your ground—to say nothing about the waste of seed?

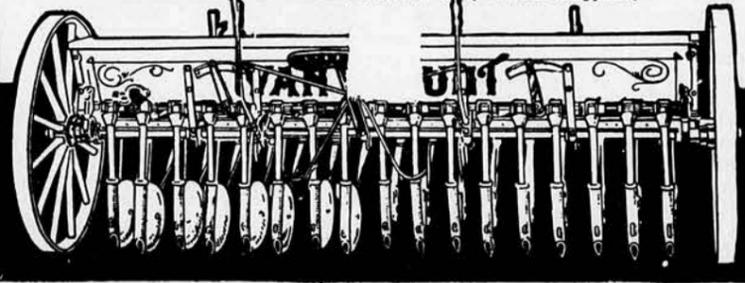
It is a sure fact that you are losing more money every season than it would cost you to make your winter wheat and spring oats safe from frost—safe from sun, birds and heavy rains—to get the use of all your ground.

VAN BRUNT SINGLE DISC DRILLS increase your yield on 25% less seed. Twice a year you can make a substantial profit with a Van Brunt Single Disc Drill. It plants and covers every seed deep enough to be safe. On 25% less seed than you are using now, you can increase your oat crop 25%. On 25% less seed than you use in broadcasting winter wheat you can make as remarkable an increase in your wheat crop. At the same time you will improve the quality of your crops. Seeds are all planted at same depth; they sprout, head-out fully, and ripen at the same time. Plants grow with stronger stalks and deeper roots to withstand beating rains and heavy winds.

This seed saving and the big increase in yield more than pays for a Van Brunt Single Disc Drill the first season. The years after that it makes clear profit. The Van Brunt is the oldest, longest established drill, solidly, substantially built to last a lifetime. Nothing to get out of order. Disc bearing can't work loose—and needs oiling only once or twice a year.

Free Book. If you want to know how to prevent waste of seeds and ground—if you are interested in the remarkable savings in seed—if you want to investigate how to plant seed so that every seed with a germ of life is sure to grow—write for our free illustrated, interesting book. Write today.

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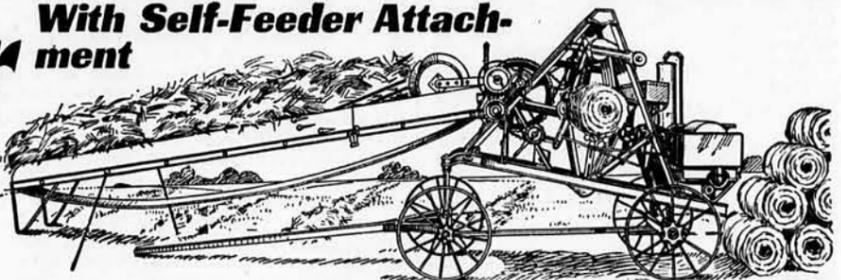
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Cuts Down The Cost of Baling

The New Luebben Baler first cut down the cost of baling hay to one-half that of the old style balers and now with the self-feeder attachment the cost is cut two-thirds. You can't make money with the old style hay presses as you may know. The profits in baling is the difference between cost of baling with the old style hay press and the NEW LUEBBEN BALER of today.



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Bale your hay in the field and save stacking. Do you know that when you stack ten tons of hay you only get EIGHT TONS of GOOD HAY out of it. After your hay is in the stack the LABOR COST IS HEAVY in moving and baling. Keep up with the times, do away with stacking. GET YOUR HAY INTO LUEBBEN BALES before the JUICES AND SAP of the plant HAS ENTIRELY DRIED OUT. The proof of the pudding is in the eating. IF MAN HAD TO EAT HAY there would be no other kind of BALER but the LUEBBEN. Write us at once and investigate THE NEW PROCESS BALER. We will send booklet and information by return mail. Write for it today—right now—before you forget it. It will pay you. Address

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DAIRY



The Value of the Silo on the Dairy Farm.

On the modern dairy farm the silo has practically become a necessity. Few dairymen who have properly built silos and have fed well-cured ensilage would be without one. Under present agricultural conditions with the price of land becoming higher each year, it is necessary for the farmer to use all of his land to the best advantage. For this reason the silo has come into general use among the farmers of the eastern part of the United States, and while the conditions there differ somewhat from those of the middle west yet in general the advantages of the silo are the same in both localities.

Some of the advantages of the silo for dairymen are:

1. It makes a succulent, palatable food of uniform quality for winter use.

2. It saves a larger per cent of the corn crop than when harvested in the shock or by other methods. As determined by Armsby of the Pennsylvania Experiment Station the number of pounds of digestible nutrients to be obtained from an acre of corn under the two different methods of harvesting, field curing fodder and putting it into the silo, are as follows:

Digestible nutrients in corn from one acre:

Nutrients.	Silage.	Field Cured.
Protein.	233	202
Carbohydrates.	3164	3030
Fat.	263	156
Total.	3660	3388

3. The early date of clearing the land when putting corn into the silo leaves it free to be seeded down either to grass or winter grain.

4. The cost of harvesting, if the crop is planted within a reasonably close distance of the silo, is reduced to a low point. This factor of course depends largely upon the conveniences for handling the corn and the help available. From experiments conducted by the New Hampshire Experiment Station, the relative cost of harvesting the crop by the two methods under average conditions for each was: 25 cents per 100 pounds of dry matter for the field cured product and 15% cents per 100 pounds of dry matter for the ensilage.

5. A silo is a cheap and convenient way of storing the corn crop. With a silo the winter feed can be stored wherever it will be most convenient for feeding at a comparatively low cost per ton. The figures as given by the New Hampshire Station are: 62% cents per ton for putting the ensilage into the silo where the field from which the crop was harvested was seventy rods from the silo.

6. If the corn crop is short, due to dry weather, other seasonal conditions, or insect ravages, the crop will make good ensilage even though the grain be small and only nubbins.

The above are in my judgment the most important reasons in favor of the silo though a number of others might be given, such as the doing away with litter from stalks as when fodder is fed, the improved condition of the cattle due to the slightly laxative effect of the ensilage, the reduced expense of winter feeding, and the reduced waste in feeding.

Even with the silo there are certain unavoidable losses which will occur, but in good ensilage these do not exceed 4 to 8 per cent of the total crop and often not more than 2 to 4 per cent. These losses are due, when the silo is properly constructed, either to slowness or improper methods of feeding or to improper filling of the silo, the ensilage not being packed enough to exclude the air. In feeding from a silo, to prevent loss, the ensilage should be taken evenly from the surface, 2 or 3 inches being taken at a feed to prevent loss.

However, even when this cannot be done, the ensilage, if well packed, will spoil only to the depth of a few inches as ensilage is often carried over through the summer in good condition and in some few instances has been

kept in fairly good condition two or three years.

In conclusion, I would say that every Kansas farmer that makes a business of dairying ought to consider the question of silos and ensilage. Unless he has plenty of pasture of good quality, and plenty of land upon which to raise alfalfa, corn, and other crops for feed for the cow, a silo is almost essential, and even if he has plenty of both pasture and land for cultivation by the use of a silo or silos his herd can be almost doubled for the same acreage with comparatively little additional expense.—W. F. Turner, Tonganoxie, Kan.

The New World's Butter Record for Thirty Days.

Chenango county, New York, now has the distinguished honor of producing the best cow the world has ever known, and comparatively few realize what that really means. For many years there has been great rivalry among farmers and dairymen as to who could or would at some future date have the proud distinction of owning a world's record animal.

The real name of this queen of all cows is DeKol Queen La Polka 2d, and her record is as follows:

Butter record, seven days, was 35.34 lbs.
Butter record, thirty days, was 145.10 lbs.
Milk record, one day, was 124.00 lbs.
Milk record, eight days, was 841.8 lbs.
Milk record, thirty days, was 3,376.9 lbs.

Dairy Conclusions.

After a year's observation with the herd at Cornell University Experiment Station, H. H. Wing, Professor of Dairy Husbandry, reaches the following conclusions:

1. With a fairly good herd, carefully fed and kept, milk can be produced for 65 cents per hundred, and fat for 16 cents per pound for the cost of food consumed.
2. That individuals of the same breed vary more widely in milk and butter production than do the breeds themselves.
3. The large animals consumed less pounds of dry material per 1,000 pounds live weight per day than did the smaller animals.
4. That in general the best yields of fat were obtained from cows that gave at least a fairly large flow of milk.
5. In general, the cow consuming the most food produced both milk and fat at the lowest rate.
6. For the production of milk and fat there is no food so cheap as good pasture grass.

Quick Churning.

It is surprising how slow some women are to adopt new things. We know of more than one woman who wastes hours over cream "that won't come"—but no argument can induce them to get a dairy thermometer nor to use one if they had it. A woman writing an exchange says:

"I frequently hear women complain of the churning. 'I churned two hours yesterday and was almost ready to feed the cream to the pigs,' is not uncommonly heard. I asked one woman who had been making and selling butter for years, how long it took to churn, and she said, 'Oh, about an hour.'

"I began to dread the buttermaking process, but being green at the business and desirous of doing it just right, I bought a dairy thermometer for 35 cents. When the cream was just at 60 degrees I churned, and to my astonishment, had a nice batch of butter in eight minutes. Repeated churnings proved the fact that when the well stirred cream was at 60 degrees the churning process will not exceed ten minutes, nor have I ever churned in less than seven. With the cream at 64 degrees I took 20 min-

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"No man in the country is making, or has made a better attempt to reduce school statistics to the science of dealing simply with facts and figures that are vital. If he can have two years more he will set the world an example that is well worth while. He has gotten the state aid to high schools on a basis that puts Kansas in the class with the best states in the Union.

"The professional training of teachers has been set forward farther in his term than in the twenty years previous. These are merely indications of what Mr. Fairchild has seen accomplished in the last four years. And all this has been accomplished without friction in the profession, in the legislature, in the party, or in the press of the state. Fairchild of Kansas is a man of whom the country as well as the state may well be proud."—Journal of Education, Boston.

utes, and above that temperature or below 56 degrees, found it unprofitable to spend the time. Then I began asking questions of every woman I met who made dairy butter, and I have yet to find one who uses a thermometer."

Wetting the cow's teats and the milker's hands is a dirty trick and is wholly unnecessary. Good dairymen will not tolerate it and any milker caught in the act would be promptly discharged. The udder and the cow's abdomen should be wiped carefully with a cloth that is just damp enough to prevent dust from flying and that is enough.

Don't abuse the cow. If you do she is sure to strike back where it hurts worst—in the pocketbook.

The extension department of the Kansas Agricultural College recommends to all farmers who milk many cows, the planting now in successive weeks of small strips or patches of cane to be cut when about two feet high and fed to cows by the armful every evening when pastures begin to dry up.

Five Jersey cows have recently completed authenticated year's tests in which the yields amount to over 700 lbs. of butter. It would seem that cows capable of doing this are to be no rarity in the Jersey breed. The five now under consideration were bred and tested in widely separated sections of the country; namely, Oregon, Pennsylvania, Nebraska and New York. The 29 cows already in this 700 lb. list, whose records run from 700 lbs. 11 oz. to 1,126 lbs. 6 oz. butter in the year, have been bred in different parts of the country, and belong to different families of Jerseys.

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Breed Horses To Type.

To the Editor:—During my fourteen years' residence in eastern Colorado I have seen many horse ranches and have usually found several types of stallions running on the same range or in the same pasture.

One ranchman of my acquaintance has Black Percheron, Coach and Clydesdale stallions. These stallions were all good of their kind, but they were used indiscriminately. The result was that after eight years of such breeding it was impossible to find a team of perfectly matched horses among a herd of 250 horses. Had matched stallions of either of the breeds been used, many matched teams could have been found, and the profits could have been materially increased.

Breeders of range cattle have found that they can sell their young steers with greater ease and profit if they have been bred to a type. Thus the XII cattle were once so uniform that one could cut fifty out of a trail herd and they would be practically like any other fifty in the herd. Those cattle were bred to a type so long that buyers could know what they were getting.—J. E. Payne.

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LIVE STOCK



Dehorning Calves.

One of our readers, who is just starting a herd of pure bred cattle, has conceived the idea that he wants to develop them without horns and asks for information as to how best to handle them.

Calves may be dehorned when young in a much more humane and satisfactory manner than when they have attained a more mature growth. The common practice, of course, is to saw or clip the horns off after they are fairly well developed, but this is always sure to result in a set back in the growth or development of the animal, and very frequently results in the leaving of unsightly stubs on the head, which may possibly be used as dangerous weapons to other cattle. The question of dehorning generally concerns only those farmers who are feeding for the market, as the average breeder prefers to grow out his cattle with the horns on.

There can be little question but that horns are useless, and even dangerous, and the pure bred animal would be undoubtedly better off from the standpoint of his owner, as well as for his own comfort, if he had no horns. It is simply the looks of the thing that retains the horns on breeding animals.

The process of dehorning a calf is so simple and cheap that it is rather surprising that this operation is not undertaken earlier in the life of the beef animals, as it is believed that an animal without horns has naturally a quieter disposition. The operation should be performed as soon as the buttons can be felt on the calf's head. The hair should be clipped from around the horn button, and the skin should be smeared with grease in order to protect it against the chemical agent used for dehorning. After this is done the little button should be moistened thoroughly and caustic potash applied until the skin over the button is red and tender to the touch. If this work has been well done, and at the proper time, no horn will appear.

Caustic potash is usually put up in small sticks or pencils and can be had at any drug store at a low cost. It is rather dangerous stuff to handle, and should not be allowed to come in contact with either the skin or the nails on the hand. The Bureau of Animal Industry of the Department of Agriculture recommends a liquid preparation composed of caustic soda and kerosene, for the same purpose. This, however, is less convenient to apply, and requires more time and preparation. Mechanical means are available and calf dehorners are sold in various markets. These are so constructed that they will gouge out the horns on older calves, but they are painful to the animal, and, like dehorning with the clipper or the saw, will almost surely cause him to go off his feed.

With the aid of caustic potash the animal suffers almost no pain and has no relapse. The calf that is dehorned by this process grows a different shaped head and has the appearance of being a natural born doddie. There are no unsightly stumps left, and the process has everything to recommend it and nothing to condemn it.

Making Beef with Alfalfa Meal.

The Otto Weiss Alfalfa Stock Food Company of Wichita conducted an interesting experiment in beef production by means of alfalfa meal last winter. One hundred head of cattle were selected and fed on alfalfa meal in connection with corn. When marketed, they were said to be the best and fattest steers that were ever put upon the Wichita market. They sold for \$8.10 per 100 pounds. The details of this experiment were given in these columns at the time it was begun but the important fact that these steers were fed wholly on bleached alfalfa was not mentioned. According to the owners, the experiment has demonstrated to them that bleached alfalfa contains as much of nutritive value and is just as palatable for live stock as is green alfalfa. This is only

true, however, when the bleaching has been done by the alfalfa heating from its own moisture. If alfalfa should be bleached from heavy dews or rains, after it has been cut, it undoubtedly loses in feeding value. It has long been known that brown alfalfa was eaten as greedily by live stock as that which is green, but this experiment seems to show conclusively that where alfalfa has gone through a bleaching process from its own heat, either in the hay mow or in the stack, it has lost nothing of its feeding value. Those who saw these cattle were unanimous in their praise as to their quality and condition, and it is stated that but for the high price of alfalfa hay which existed at the time of the experiment, a very handsome profit would have been realized on these steers. Kansas alfalfa is being shipped to eastern states and to foreign countries in large quantities for use in balancing rations for dairy cows. As it is more economical and more satisfactory to handle, these shipments are always made in the form of alfalfa meal instead of bulk or baled hay.

The Cost of Growing Pigs.

A reader hands us a statement containing his record of the cost of growing two litters of pigs until they were 8 weeks old. The cost of the sows' feed alone was not reckoned, but the total amount of feed consumed by the sows and their litters was included. One litter consisted of six pigs, farrowed by a young sow on April 8, and the other consisted of eight pigs farrowed by an old sow on April 10. The record began one week before farrowing time, and continued until the pigs were eight weeks old. Everything fed the sows and pigs was charged at the market price of the locality. The ration consisted of middlings at \$1.70 per 100; corn, oats and buckwheat ground together, at \$2 per 100; corn meal at \$2 per 100, and whole corn, charged at \$1 a bushel for a little over a bushel and one-quarter. The total cost of the feed during this period was \$14.39, and this divided by the number of pigs makes approximately \$1.20 for each pig at 8 weeks old. The pigs averaged at the end of the experimental period 30 pounds each, and a total cost shows that the live pork produced was at the rate of considerably less than 5 cents per pound, and the owner estimates that the cost of each pig at 6 weeks old was about 85 cents, while he was offered \$3 per head for them. Other figures by other feeders will show a difference in results because of the different combinations in feeds. We should like to hear from our readers as to the results they have obtained in their own feed lots.

Editor Kansas Farmer: Can you publish the experience of persons who have bought sheep, run them out to clean up land, and then fed them out successfully? As your paper says, there is a chance for sheep raising in Kansas, but I do not like to buy any dear experience. The small trials reported at the station, where they have plenty of help and feed, is not the kind of information I want.—F. A. Smith, Marion County.

Kansas Farmer readers are invited to send in their experience along the lines suggested by Mr. Smith. There can be no question but that sheep raising on the farm is and should be a profitable business in Kansas. There is a question, however, about sheep ranching ever being profitable in this state. Our contention is that a few head of sheep on the farm require but little more trouble or feed than does poultry, while they are immensely more profitable as weed killers and in the production of both mutton and wool. It is our contention also that sheep may be imported in limited numbers and fed out profitably in this state. We should like to have the experience of our readers who have handled sheep in the way suggested by Mr. Smith, for publication in the Kansas Farmer as a help to those who have not had so much experience.

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Winter Wheat Acreage.

It is idle to suppose that the acreage of winter wheat will be less in 1911 than in 1910. It would be a grave mistake for our readers to plant fewer acres this year than they did last. This being the case, a good many of our farmers are going to buy a grain drill this fall. Now, what drill will they buy? There are a great many drills on the market, and it is essential to act wisely. Therefore, we urge our readers to investigate the Buckeye—a drill that has given the best of satisfaction for more than fifty years. This drill has positive force feeds for both grain and fertilizer. Any style furrow openers can be had—single or double disks, hoes or shoes in plain grain and combined grain and fertilizer styles. Send for a Buckeye catalogue to The American Seeding-Machine Co., Incorporated, Springfield, Ohio, and then go to your nearest implement dealer and ask to see the Buckeye. Our readers are assured that the drill will do all the makers claim for it, because it is sold under one of the strongest guarantees possible to make—a warranty that absolutely protects the buyer. ***

The Draft Horse for Farm Use.

Whatever future years may bring, the breeding season of 1910 in Mitchell county has surpassed all previous records since the revival of the horse industry and line breeding has become not a matter for discussion but a general practice.

There are at the present time nearly 20 pure bred Percheron stallions standing for public service in Mitchell county besides 6 or 8 that are kept only for their owner's use. There are also several excellent standard bred and coach stallions in the stud so there is more than one stallion for every township in the county. And there has been none too many of them. Nearly every one of the owners of these stallions report that they have had all they can possibly do. In fact, many of them have resorted with varying success to the capsule system for relief.

As every one of these draft stallions weigh from 1,800 to 2,100 pounds, it is easy to see what the effect will soon be in this county on the size and quality of the stock produced.

It is now about five or six years since this county began to turn its attention to the horse industry. At that time the supply of horses began to be rapidly diminished owing to the rise in the market price and the invasion of numberless horse buyers. Breeding operations over the country generally had been at a standstill for some time. There were a good many cross bred horses and horses from grade sires but there was a dearth of pure bred draft sires.

Farmers, when they bred up to that time, generally bred for the kind of a horse they wanted to use themselves without regard to what the market demanded. But with the advent of the Mitchell County Fair and the increased market demand for work animals the mare owners began to study the breeding question.

The fair gave an opportunity for comparison and brought out points they had not thought of heretofore. Nowadays the man who owns the mares settles for himself where and how he wants to breed. However, there are few counties where he has the opportunity of breeding to one of twenty good heavy Percheron stallions if he is breeding for draft horses.

While this has had the effect of bringing a lot of good pure bred Percheron mares into the county the effect on the character, weight and quality of the grade mares has been no less evident. Owing to the intense interest in horse breeding among the farmers themselves they have refused to sell their best mares and have reserved them for their own use, preferring to cull their stock even if at an apparent present sacrifice in dollars. They haven't hesitated either to pick up another good mare or two when they got a chance and as a rule they demanded in these that they be as good or better than the ones they already possessed.

Last year a tenant neighbor of mine brought up five mares to breed. He got them all in foal. This year he had an extra mare or two that he had bought or traded for. This was the way he explained his extra purchases:

"I need horses to work," he said, "and by having a few mares extra I can do my work and raise colts. My spring colts will be worth \$60 or \$70 apiece at least this fall when I wean them and there is nothing I can do better at than that."

However, there will be fewer colts for sale than one would expect. Probably one-half the mare owners are raising their colts now to replace worn out stock or stock that will be worn out when the colts come to maturity.

This Percheron education has had several very decided results on horses and their owners in this county. Farmers generally are demanding more size, even for their own use, combined with quality, action and soundness. They are matching up their teams and putting better harness on them than ever before, and they are beginning to give as much study and attention to the care and feed of their horses as they have given heretofore to their hogs and cattle.

A few years ago there was a decidedly distinct knock on the heavy horse for farm work.

"Give us something that can get around quick, that we can trot out on

the road," they said. "The big horse is good enough to sell but not the thing for farm work."

But experience is beginning to show that while the principle of making two blades of grass grow where one grew before is perfectly proper there is no use in growing an extra horse to eat the extra blade. What is the use or economy in hitching four light horses to a lister if three heavier ones will do the same work? Or on a binder or any other of the farming implements? It requires more time for a hand to get four horses ready for work and more space is wasted at the ends of the cornfield. There is a decided loss even if the three large horses eat as much as the four little ones.

A neighbor who, last year, had four horses on a one-rowed lister, this year ran a two-rowed lister with six heavy horses and he said they walked right along with it even in very heavy soil.

There is no room for argument on the proposition of whether two heavy horses will haul a heavier load to or from market than two light horses and as field work or hauling loads occupies the time of the farmer about 5 1/2 days at least out of seven the economy, the Mitchell county farmer is learning, is in keeping the kind of horses needed for the 5 1/2 days' work. So there are few counties, especially in the west, where more 1,500 and 1,600 pound and up teams will be met in the public highways or seen on the farm than here.

An increased interest in the style, quality and character of the teams has led to a greater demand for better appointments. Harness dealers in Beloit, Glenelder, and Cawker City, the three leading towns of the county, say the demand is increasing every year, for not only harness of better material but also of better appearance. They have sold more good harness this year they say than ever before. And the team owners are taking far more pride in keeping their harness and teams in presentable shape. Not necessarily in what you might term show shape but in good, thrifty condition. The harness usually shows evidence of having been oiled at least once a year and it is no longer repaired with rope or wire. As a result more attractive appearing teams are to be seen on the streets of the towns in Mitchell county on Saturdays or other days than in probably any county in the state.

This interest in better horse flesh has naturally led to more care and thought in feeding, especially in the draft horse line. The enhanced price of grain and hay the last few years has stopped the old practice of rolling the feed without measure to the horses when at work. Also experience has taught that it does not pay to run them through the winter on wind, snow banks and corn stubs. Mitchell county horses are getting a more sensible ration the year round. Alfalfa hay, one of the greatest bone and muscle producers when properly harvested and rationally fed, is being handled on a saner basis than ever before. Now when you look into a barn you do not see horses full, the mangers overflowing and enough underfoot for a week's supply of bedding.

As to the pure bred Percherons in the county their number and quality are becoming well known throughout the state and outside the state.

The excellent mares and stallions that have been brought to the county in the last five years are beginning to give the good account of themselves.

Several parties who are contemplating the purchase of pure bred mares or stallions are looking around at home before going elsewhere and frequently after going elsewhere come back home and find they can do as well or better here where they know the parties they are dealing with.

Last spring two of the oldest breeders in the county desired to change their stallions at the head of their stud as they had kept them in their respective communities as long as they could conveniently. They were experienced buyers and demanded the best. And they bought right here in Mitchell county.

This is the result of five years' studious attention to the horse question by Mitchell county breeders. With this foundation what will be the result five years hence?

To any one experienced in live stock breeding, who knows the value

of good foundation stock there is a need of a prophet.—Ralph G. McKinzie, Glenelder, Kan.

Fitting Hogs for the Fairs.

The fair season is approaching, and it is none too early to consider the proper fitting of the pigs for the show ring. Those who will show older hogs have already begun the necessary fitting, which will require about ninety days in their case. It takes some time to get a mature hog on to full feed, and this, with the time necessary for the actual fitting, will require about three months. With pigs in good growing condition, the time need not be so long, as they respond much more readily.

Fitting means work and care, but if you expect to win at anything these are always necessary. The essential thing for hogs is plenty of range whether they be intended for the show ring or not. Of course, alfalfa affords the best possible range, but in the absence of this, good grass pasture will do. Plenty of good, fresh milk is an important factor, especially with young hogs. Fresh separator milk will produce more and better results from the grain ration than can be secured in any other way. As soon as the hog is on full feed and doing nicely, he may be fed a little oil meal. This should be very small in quantity at first and gradually increase. This has the effect of helping to increase the fat and of putting the hair in fine condition.

Exercise is a very important matter to be looked after. After the hog begins to get fat he will not take exercise readily and must be compelled to do so. It is not good policy to decrease his feed, but force him to exercise and he will take care of the feed if the ration is a good one. It takes some time to drive the hogs about and compel them to take exercise, but this is a necessary part of the fitting, and the only way in which the bloom can be secured which is so highly prized in the show ring. If the animal is over done, he loses his bloom and will not appear well before the judge. The best way to prevent such a condition is to force him to take exercise.

After he is in condition, and the time has arrived to show him, great care must be exercised in his transportation. If the trip to the show grounds can be made in 24 hours, it is best not to feed him during that time, but see that he has an abundance of water. As soon as the hog arrives at the fair grounds, he should be unloaded as quickly as possible and given time to rest. If he has gone without food for some time, he will probably be quite hungry and care must be exercised in his feeding or he will overeat, and this will give him a setback which will put him out of condition to appear before the judge.

First appearances count for a good deal. If the animal is delivered at the fair grounds in good bloom, and has been properly shaped up in the pens before going to the show ring, he is almost sure to attract the attention of the judges, and this is the object sought. The money prizes won do not always pay for the total expense of labor and feed that are necessary to fit a hog for the show ring, but the breeder has many opportunities to make sales on the fair grounds through the exhibition of the samples contained in his show herd, and the advertising he secures from his presence on the ground, whether he wins or not, is generally thought to be well worth all it has cost in time and money for preparation. Those breeders who are regular showmen consider that the advertising they secure on the fair grounds, together with the sales they may make during the fair, will amply compensate them for all the trouble and expense incurred and the prize money is just so much velvet, though of course the prize ribbons are a most desirable and effective means of advertising.

I have a 3-year-old mule which I have driven about a month this spring. About two weeks ago I noticed he began to limp and now there is a depression in this shoulder. Think it is sweeney.—J. Peterson, R. 1, Monument, Kan.

Ans.—Apply cerate of cantharides with the hand, and repeat in one week. Afterwards apply crude oil twice a week until well. Allow to run on grass and rest.

Have a mule that slipped in a gopher hole while on a hard pull and

WINDMILL INSURANCE

WHAT'S the use of wasting good money on a windmill outfit for the wind to down when you can just as easily, and for about the same price buy an outfit which its manufacturers, for a nominal fee, will insure for five years against tornadoes, cyclones, run-away teams—in fact against anything and everything except willful act or willful neglect.



The Goodhue Windmill

is the only windmill made that is so insured, because the Goodhue is a windmill that is built right. A postal card will bring you the proof and a free book in which you will find more practical information about windmills than can be obtained from any other source. WRITE TODAY.

APPLETON MFG. CO.
19 Fargo St., Batavia, Ill., U.S.A.

MAKE THE TEST Ask About Our Pianos and Prices



It has ever been our aim to sell good trustworthy Pianos at so much lower prices than other dealers can, that people will talk about us and advertise us. We couldn't do this if we paid commissions and we could not have grown the way we have had resorted to the selling price tricks of many stores. We welcome an X-ray investigation of our Pianos and our selling system. The best proof of the honesty of both is the fact that no other Piano store in the entire country has made the record that Jenkins has.

\$225 Buys the ELBURN H-2—the Best Piano in the world at the price. \$6 monthly pays for it.

ONE PRICE, THE LOWEST, COMMISSIONS TO NONE—THE BEST PIANOS MADE, AND THE LOWEST PRICES—Simply summed, that's what this store offers you. Make the test, compare the Pianos and the prices—see if every word of it is not the truth. Write today.

USED PIANOS—SCORES OF BARGAINS—many of them as good as new. All of them priced at 1-3 to 1-2 their original value. We are also factory distributors for STEINWAY, VOSE, WEBER, KURTZMANN, ETC.

Write for catalog. Address Piano Dept. No. 2. J. W. JENKINS SONS MUSIC CO., Kansas City, Missouri.

PostCards 50 views of principal scenes in this and foreign countries. Send 25 cents in stamps and get them. Address EDWIN ERNST, 518 W. 7th St., Topeka, Kan.

Harness Shop

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

ABILENE NURSERIES

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

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

sprained the leader in front leg. Has a lump on back side of knee. Does not straighten knee and favors it when standing.—S. R. Holdeman, Pearce, Ariz.

Ans.—Take aqua ammonia 3 ounces, oil turpentine 4 ounces, olive oil 5 ounces, soap liniment 12 ounces. Mix and apply with the hand once a day and then wrap with two layers of absorbent cotton over enlargement and eight inches above and below, and bandage over it, using muslin 4 inches wide and 18 feet long. Run it on as tight as it will stand and not interfere with the circulation. Take wrapping off and apply liniment once a day, then bandage again. Give good long rest.

Readers Market

Classified Advertising 3 Cents a Word

Advertising "bargain counter." Thousands of people have surplus items or stock for sale—limited in amount or numbers hardly enough to justify extensive display advertising. Thousands of other people want to buy these same things. These intending buyers read the classified "ads"—looking for bargains. The "ads" are easy to find and easy to read. Your advertisement here reaches a quarter million readers for 3 cents per word, for one, two or three insertions. Four or more insertions, the rate is 2 1/2 cents per word. No "ads" taken for less than 30 cents. All "ads" set in uniform style, no display. Initials and numbers count as words. Address counted. Terms always cash with order. Use these classified columns for paying results.

HELP WANTED.

GENERAL AGENT WANTED FOR THE state of Kansas. National Mail-box Signal, Rogers, Arkansas.

WANTED—ECONOMICAL AND PARTICU-lar people to take advantage of our prices and services. Western Printing Co., Ptg. Dept. of Kansas Farmer, Topeka, Kan.

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

LOCAL REPRESENTATIVE WANTED—Splendid income assured right man to act as our representative after learning our business thoroughly by mail. Former experience unnecessary. All we require is honesty, ability, ambition and willingness to learn a lucrative business. No soliciting or traveling. This is an exceptional opportunity for a man in your section to get into a big-paying business without capital and become independent for life. Write at once for full particulars. Address E. R. Marden, Pres. The Nat'l Co-op. Real Estate Co., Suite 473, Marden Bldg., Washington, D. C.

REAL ESTATE.

BUY OR TRADE WITH US. SEND FOR list. Bersie-Meredith, Eldorado, Kansas.

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

BUY THIS 80—60 ACRES CORN; 5 fruits; 3 vegetables; crops go. Leonard Hammond, Minneapolis, Kansas.

CATHOLICS—BUY FARM NEAR OUR \$90,000 church. Seven priests. Catholic community. Land \$25 to \$65. Chrs. J. J. free. Ed. George, St. Paul, Kansas.

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

ARKANSAS LANDS—IN THE HEART of the finest fruit belt in the United States. Climate unexcelled. Write us for descriptive catalogue. Cravens & Smith, Fayetteville, Ark.

FARM WANTED—DESCRIBE FULLY. state size, price, terms. Owners only, inclose stamp for reply. Address E. Hoffman, Box 210, Edgewood, Ill.

200 ACRE FARM (IMPROVED) FIVE miles from a Greenwood county town, 40 acres in cultivation, balance pasture. Price \$80 per acre, mortgage \$2,000. Bersie, Eldorado, Kansas.

LANDS WANTED—WANT WESTERN Kansas, good, low priced, unimproved lands, for investment. We are well posted and price must make them a special object or snap. Land Investment Company, Chanute, Kan.

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

DON'T RENT. HOME OF YOUR OWN—160 acres, five and one-half miles Tribune county seat of Greeley county, Kansas; smooth, unimproved, best soil, neighbors close, \$1,400, of which \$600 must be paid in cash, balance \$100 each year for 8 years, interest 6 per cent. No trades; new railroad north and south through Kansas will pass near this land. Clement L. Wilson, Box 148, Tribune, Kansas.

FOR SALE—FINE RESIDENCE NEAR State Agricultural College. Brand new, strictly modern, 3 rooms, bath and hall. Quarter-sawn northern oak floor, doors and finish. Hot and cold soft water on both floors. Cistern, automatic pump in cellar, tank in attic. Also city water. All material and fixtures the very best. Block car line. Price \$5,000. Terms. F. G. Kimball, Manhattan, Kan.

POULTRY.

FOR SALE—SINGLE COMB RHODE Island Red Cockerels. A. A. Howard, Route 6, Emporia, Kansas.

WHITE PLYMOUTH ROCKS—EXCLU-sively—large birds, good layers, farm range. Eggs May 1st, \$4 per 100; \$2.50 per 50. Etta L. Willett, Lawrence, Kan., R. R. 5.

BUFF ORPINGTONS. PRIZE WINNING stock. My booklet tells all about them. Sent for 10 cents. W. H. Maxwell, Route 95, Topeka, Kansas.

FINE BARRED ROCKS—GOOD LAY-ers, farm range, eggs, \$1 for 15 or \$1.75 for 30, or \$5 per 100. Mrs. John Towell, McPherson, Kansas.

EGGS.

DO YOU WANT TO KNOW HOW TO keep eggs six months, under guarantee? Write Shelter Agency, Canal Dover, Ohio.

DO YOU WANT TO KEEP YOUR EGGS fresh and marketable for two years? Send fifty cents for tried and tested formula. Satisfaction or money back. Address O. O. Flory, Box 142, Topeka, Kansas.

SHEEP.

SHROPSHIRE SHEEP, SPRING RAMS of best of breeding and quality at reasonable prices for quick sale. E. P. Gifford, Beloit, Kansas.

HORSES AND MULES.

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

DOGS.

WHITE ESQUIMAUX DOGS, LONG-haired, plume-tail beauties; low prices. R. Brack, Havensville, Kansas.

FOR SALE—FINE BROWN AND black, spaniel puppies. "the children's friend." Fine house and watch dogs and great playmates for children. Males \$10, females \$5. Also pedigree Berkshire pigs. Satisfaction guaranteed. Address, Thornedale Kennels, Wayne, Kansas.

HONEY.

HONEY—TWO 60 POUND CANS, \$8.50; single can, \$4.50. W. P. Morley, Las Animas, Colo.

NEW ALFALFA HONEY—TWO FIVE gallon cans, \$10; broken comb, \$11; fancy comb, \$3.25 per case, 24 sections. A. S. Farson, Rocky Ford, Colo.

SEEDS AND PLANTS.

ALFALFA SEED AND A GENERAL line of seed. D. O. Coe, Seedsman, Topeka.

FOR SALE—KHARKOF SEED WHEAT, college bred, \$1.50 per bushel, sacked. J. A. Lovette, Mullinville, Kan.

WANTED—NEW CROP ENGLISH BLUE-grass or Meadow Fescue, Timothy, and other grass seeds. Correspond with The Barteldes Seed Co., Lawrence, Kansas.

FOR SALE—ALFALFA, MILLET, CANE, Buckwheat, Turnip and other seasonal seeds. Prices and samples on application. The Barteldes Seed Co., Lawrence, Kansas.

POCKET KNIVES.

A HIGH GRADE BRASS LINED POC-ket knife will be sent free to any present subscriber who will send us two new 30 months' subscriptions at 50 cents to Kansas Farmer. The knife has two blades, one of them to cut round holes, and horn handle. The blades are made of the very best steel and are sharp—you cannot buy a better knife for a dollar. Say a good word for Kansas Farmer to two of your friends, and you can easily get their subscriptions. Send the names and addresses of the two new subscribers and the \$1.00 collected to Kansas Farmer, Topeka, Kansas, and we will immediately send the knife to you, all charges prepaid.

TOBACCO.

30,000 POUNDS BEST 3 AND 4 YEAR old leaf tobacco for sale. Send stamps for samples to Anton Wavrin, R. No. 5, Franklin, Kentucky.

LEAF TOBACCO FOR SALE BY FARM-er who has raised it on same farm since 1855. Free sample with prices for 2c stamp. W. L. Parks, R. F. D. 1, Adams, Tennessee.

MISCELLANEOUS.

FOR SALE—4-CYLINDER GASOLINE traction engine. J. D. Mellies, Wellington, Kansas.

FOR SALE—NEW HAY TEDDER, never used, splendid tool for clover. Price reasonable, if taken soon. H. W. McAfee, Route 2, Topeka, Kansas.

PATENTS.

SEND FOR FREE BOOKLETS—ALL about patents and their cost. Shepard & Campbell, 600 J. Victor Bldg., Washington, D. C.

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

POULTRY



Some Feeding Experiments.

Lack of animal food is one of the most prevalent faults in feeding fowls. When fowls have free range they can get a great deal of such food by catching insects and bugs but when they are confined to small runs they are deprived of such food unless it is provided by the poultry-keeper. On most farms such a thing as animal food for the chickens is never thought of, yet it is a most essential part of the ration for growing chicks and laying hens.

A bulletin issued by the New York Experiment Station gives the results of a poultry feeding test which should prove of interest at this time.

A ration composed of twelve parts, by weight, of cornmeal, four parts wheat flour, two parts ground oats and one part each of wheat bran, wheat middlings, pea meal and old-process linseed meal, was fed to one lot of chicks, while another similar lot was given wheat, corn, animal meal, fresh bone and mixed grain. The chicks were fed thus from the age of three days until they were nearly matured and some of the pullets had commenced to lay. Lot one was fed the ration containing the animal meal, while lot two received no animal food but the grain mixture. Lot one ate more food than lot two and reached the average weight of three pounds, sooner by eight weeks than those having no animal food, while pullets from lot one commenced to lay nearly a month before any from lot two. During the first twelve weeks the cost of each pound of gain for lot one was 4 1/2 cents, that for lot two 5 1-5 cents per pound. For the next two months the cost of gain for lot two, fed wholly on grain and vegetable matter, was much greater than it had been before, being 11 1-5 cents per pound, while lot one only cost 7 1/2 cents per pound for gain during the same time, and also made a more rapid gain than the other. If the value of eggs laid by pen one before pen two began to lay be considered, the difference in favor of the lot having animal food will be greater.

At the same station, two pens of cockerels were fed from the age of three months for a period of twelve weeks in the same manner as described above, and the lot having the animal meal gained 20 per cent more than the others at a cost of about two cents less per pound.

All this shows that animal food of some kind can be profitably fed to produce either early laying or rapid growth. And the most wonderful part of it is that the ration with animal food costs less than the all-grain ration. It is the extra cost of the animal food that deters most poultry keepers from feeding it, thinking it too costly to pay, but the opposite is the truth and whatever money is spent for animal food is money well spent and brings back many times its cost to the keeper. It also conduces to the health of the flock by giving them the proper variety of food to keep them in good condition.

If your fowls persist in roosting in the trees rather than in the poultry house, maybe there is a reason for it and that may be too many lice for comfort in the house.

A man hates to be told that his fowls are troubled with lice, and will attribute the sickness in his flock to almost any disease rather than acknowledge that the fowls are lousy. In viewing a sickly lot of chickens the other day we suggested that they were infested with lice but the owner

would not believe it, until we caught some of them and showed him hundreds of creeping things.

As soon as your hens quit laying sell them to the butcher.

Get rid of all your surplus old stock. You will not only gain money by their sale, but also have more room for your young stock to thrive on.

It is a well-known fact that hens take on fat much sooner than pullets. It will, therefore, pay to keep the hens and pullets separate, so that judicious feeding may be followed. It should be the aim to make the old hens work for their food. They need scratching exercise to prevent their becoming too fat.

Great productiveness in our hens is a trait which can be easily fixed by breeding. The principles governing our breeding are the same as those which apply to all other classes of animal breeding; it is only the application that differs. With the fancier it is chiefly feathers, with the farmer it is eggs; both can be developed to perfection by the same principles of proper selection and breeding.

Don't lose your enthusiasm and lessen your strictly business methods as the mercury runs up. Eternal vigilance when the thermometer registers above the ninety degree mark, is more necessary than at any other time in the poultry yard. The flock suffer with the unusual hot weather, and every effort possible should be observed that will make them more comfortable.

A hospital should be a part of every poultry plant. As soon as a fowl gets sick, remove it to the hospital and commence doctoring at once. The trouble with far too many is that they wait until the disease is in its advanced stages before they commence giving medicine. A very sick fowl is difficult to cure, and when cured, it is seldom of value afterward. The treating of sick fowls applies to those that are valuable. To doctor ordinary fowls is but a waste of time and money.

The poultry industry is more evenly distributed than any other. There is no limit to the demand for poultry, not only for that which comes from farms but also for pure-breds. Within the last twenty years there has been more attention given the breeding of poultry than during any previous fifty years, and the more the people become familiar with the value of poultry as a source of profit, the greater the demand, the larger the profits and the wider the field of operations. There is not a city, town, village or hamlet that does not possess some specimens of the feathered tribe, and the breeders have done much to increase the interest. It is this wide range of operation that causes the statistics of the poultry industry to swell up into such magnificent proportions. It costs but little to begin with a small flock of pure-breds, and they multiply rapidly.

If a bird is noticed to be moping around and breathes with difficulty, such are signs of indigestion and should be taken care of at once. It is caused by simply feeding them on too rich food and if continued, the disease which appears trifling at first, will develop into something more serious and death will result. As soon as a bird shows the faintest symptoms of indigestion it should be put on a plain diet, reduced in quantity. Administer rhubarb pills to the birds, which can be bought at any drug store, and only about a third of an ordinary sized pill should be given to each bird. Do not allow the birds to become sick from such a disease as indigestion but see to it that it is checked at once. Rather than pamper your fowls with too much rich food, see that they get plenty of exercise in procuring what they do eat.

PURE BRED POULTRY

SUPERIOR MIXED CHICKEN FEED.

A balanced ration, \$1.70 per cwt., delivered to depots, basis today's market. D. O. COE, Feed and Seeds, Topeka, Kansas.

D. W. YOUNG STRAIN

of S. C. White Leghorns, prize winners at three state shows. Eggs, \$1.50 for 16; \$6 per 100. Barred Rocks, "Ringlet" strain, \$2.00 for 15 eggs. Eggs packed with care. C. H. McALLISTER, Carmen, Oklahoma.

WHITE PLYMOUTH ROCKS

(EXCLUSIVELY.)

For 18 years I have bred White Rocks, the best of all purpose fowls, and have some fine specimens of the breed. I sell eggs at a reasonable price. \$2 per 15, or \$5 per 45, and I prepay expressage to any point in the United States.

THOMAS OWEN.

Station B, Topeka, Kansas.



THOMAS E. WAGSTAFF'S RECORD

on the prohibitory law is not surpassed by any man in the state of Kansas. It is due to the efforts of this young man more than to any other man in Kansas that the crusade which stamped out the joint system was started. Now he is asking for the nomination for governor on the Republican ticket, with a promise to the people that **USELESS** state employees will be cut out, and state expenses be reduced to what they should be.

WHY REPUBLICANS OF KANSAS DEMAND

Tom Wagstaff for Governor

1. Because State Taxes Ought to Be Less

State taxes, in first year of Governor Stubbs, increased nearly one million dollars; to be exact, 0,571.42—or over 42 per cent more than the preceding year—and Kansas hasn't any more to show for the increase.

2. Because Republicans Don't Care to Have Taxes Increased Still Another Million of Dollars

Governor Stubbs favored in the legislature of 1909, **SEVEN** boards and commissions, all to be appointed by the Governor, the total cost of which were \$353,000 (as estimated by the Ways and Means Committee of the House). The legislature turned down these boards, but Governor Stubbs seems still to favor them, and in fact is advocating a part of them in his speeches, so if he is re-elected, the people must expect still another increase in State Taxes of practically \$1,000,000.00.

3. Because Mr. Wagstaff is Opposed to the Unjust Inheritance Tax Law

This law was passed by the last legislature and endorsed and approved by Governor Stubbs. Governor Stubbs in his speeches two years ago promised the taxpayers an inheritance tax which would catch swollen fortunes. Instead he gave the people a law which levied an **EXTRA TAX** on the widows and orphans of every man who dies owning a farm in Kansas. No matter how many years a farmer has denied himself and his family, everything beyond life's bare necessities to get his farm paid for; no matter how many years' taxes he paid, when his farm wasn't really his own—on top of all this—his widow and children must pay extra, as a penalty for his death, and then continue paying the regular taxes, as long as they may keep the farm. And for each subsequent death of owners, there is still another extra tax to pay. Mr. Wagstaff is pledged to the repeal of this law.

4. **BECAUSE OF THE UNJUST PROVISIONS OF THE PRESENT TAX LAW WHICH RAISED THE FARMERS' TAX 6 PER CENT AND REDUCED THE TAX ON CORPORATIONS 2 PER CENT. GOVERNOR STUBBS ADVOCATED AND WAS INSTUMENTAL IN THE PASSAGE OF THIS LAW.**

DON'T BE FOOLED.

YOU owe it to yourself and your family to verify the facts as above stated, and then vote for your own best interests, which means a

Vote For Wagstaff for Governor



HON. JAMES MONROE MILLER.

An Actual Resident of the Fourth Congressional District, where he has lived for 35 years. His long residence with the people he has so ably represented for 12 years qualifies him to serve them in the future as in the past. His wide acquaintance, extensive experience and success as a working Congressman make him one of the most popular and useful representatives Kansas ever had. When the interests of his district are at stake, he never sleeps. Trusted by and influential with the administrations of McKinley, Roosevelt and Taft.

THE PRESIDENT APPROVES HIS COURSE.

A FEW OF THE MANY REASONS WHY MR. MILLER SHOULD BE NOMINATED

1. **RURAL ROUTES** have added millions to the value of Kansas farms and placed the farmer on a business level with his city brother. To get them for his district has been his constant labor, and it has not been in vain; for he has secured about 240 Routes in the Fourth District, which had none when he went to Congress. This is a remarkable record, for the average congressman has been able to get only about 100. Mr. Miller never rests along this line and will get many more in the near future.

2. **THE ANTI-SALOON LEAGUE OF AMERICA** made no mistake in selecting Congressman Miller their official leader in the National House and they give him full credit for securing the law which prevents Express and Freight companies from transporting liquor from one state to another, consigned to fictitious names. It was the most important Federal temperance legislation ever enacted, preventing what was making express and freight offices wholesale saloons, to which liquor houses sent large shipments addressed to John Doe or other names, to be turned over to anyone who had the price. Miller's Bill, passed in March, 1909, prevents the practice by heavy fines and imprisonment. In speaking of his skill in forcing its passage as an amendment to the Penal Code, after defeat as a separate measure, the Anti-Saloon League of America said: "The final passage of the Penal Code containing this amendment (Miller's Bill) after being hung up in conference and delayed by filibuster is another triumph for Mr. Miller's aggressiveness and persistence." As one of the first county attorneys to enforce the prohibitory law, his reputation has grown till he is now regarded as one of America's foremost temperance statesmen and is favorably mentioned all over the United States.

3. **MILLER STOOD BY THE PRESIDENT AND THE PRESIDENT STANDS BY HIM** In a signed statement recently published, President Taft says he is "elated at the legislation which has been enacted by the Congress" and adds, "I think the party in power has enacted legislation which will inure greatly to its benefit. It has kept its contract. It has done what it promised the people to do and the Republican Party has a good record to take to the people."

Congressman J. M. Miller stood by the President and helped enact the legislation which makes this commendation by the President possible. Neither the President nor Mr. Miller can have any sympathy with those who seek a Republican nomination, but whose only stock in trade consists in denouncing the Congress and finding fault with the party whose legislative work is so fully endorsed by the President.

Stand by Pres. Taft by Voting for J. M. Miller for Congress
PRIMARY ELECTION, AUGUST 2, 1910.

HOME CIRCLE



Today.
 Work on, work on—
 Work wears the world away;
 Hope when tomorrow comes,
 But work today.

Work on, work on—
 Work brings its own relief;
 He who most idle is
 Has most of grief.

—Ironquill.

Home Vacations.

At the approach of hot weather the prosperous individual who has money to spend begins reading and over-hauling the little books, etc., sent out by the railroad companies, telling of inviting places to spend your vacation weeks. And the individual who has little money to spend sits and sighs and wishes he might have a few weeks' rest from the constant responsibilities of daily life. With the farmer and his family vacation time comes just in the midst of the busy season, and whether he has plenty of money or not, he does not see how he can take a vacation away from home. However, vacations at home are now solving this perplexity for many country people as well as city people, and why not more of us try the plan?

A change to different scenes and a rest from daily work is an excellent tonic for any tired worker; but too often the strain and excitement of such a vacation is too wearing to be of much benefit. Tired, weak and nervous persons will find it best to take a vacation at home, during hot weather, and wait until fall or winter to take the far away journey.

The housewife is generally the individual who is most worn with responsibilities, and many a hard working farmer will get together somehow a little fund to send mother away for a vacation, when this same amount of money, and sometimes less might be used to a better advantage in giving her a home vacation, and the whole family would enjoy the benefit of the vacation. The fatigue of a long railway journey, the homesickness and worry sure to follow separation, does her more harm than the vacation will do good.

If we all could, during the hot months, have a little rest, and just enough wholesome food at home, such a vacation would be of much benefit to us, and we would feel much better physically. During hot weather, every one needs to indulge freely in fresh air, and we might add water; let the two go hand in hand. Fresh air and water are two of the necessities of life that cost nothing; and we do not have to buy a ticket and journey west, nor go to any spring to find them, so if we cannot take a vacation away from home let us see what we can do toward taking an at-home vacation. It will require no little amount of will power to rest at home and throw away cares, when they surround you on every side, but with a determination to rest you will soon acquire the habit of working and resting. Simplify the housework for at least two months. Put aside the bric-a-brac, take down the white curtains and fold them away, take off the table covers, etc., put away out of sight all house furnishings that require extra work. Make a summer cottage of the whole house; the change will be restful to the eye and inviting to the soul. Let the meals be light and very simply prepared, composed mostly of vegetables and fresh fruit. Serve meals without tablecloths for a change.

Wear as few clothes as you possibly can; dress the children simply. Try sleeping out of doors, on the porch or in a tent, using as little bedding as you can. Take a bath often; keep clean and rest. Try a few picnic meals out in the yard under the trees; this will save setting the table and cleaning the dining room. Just cut out every bit of the unnecessary work you can.

If you have any money that you might have spent in taking an away-from-home vacation, don't keep it, spend it. Try buying an oil stove, a

fireless cooker, a washing machine, a wringer, a cream separator, or just an apple peeler, or any handy device for lightening the house work will help rest the tired housewife. Hire the washing and ironing done away from home a month or two, or hire a good girl to help with the work for a week or so.

The farmer can not only lighten the labor for his wife and daughters, he can lighten the farm work for himself and sons. With the money you might spend for a far-away vacation, try buying a two-row cultivator, with it you can have that twenty-acre field cultivated over twice as quick, and can sit in the shade and rest while your neighbor finishes in the old way. Or buy a gang plow, a manure spreader, or a gasoline engine with the "rest" money and get a little physical and mental rest at home, instead of going abroad. At home is the best place to rest and abroad is the place to go when you are rested and wish to see sights and feel hearty enough to enjoy a strenuous good time. Try an at-home vacation.—F. Lincoln Fields.

How to Caramelize.

Place sugar in a clean agate ware frying pan and stir continually until the sugar becomes a golden brown syrup.

Caramel Cake.

One and one-half cups sugar, 1/2 cup butter, 1 cup water, 2 tablespoonfuls caramel, yolk of 2 eggs, 2 cups flour, 1/2 cup milk and 2 teaspoonfuls baking powder added last.

Icing.

One cup sugar, 1/2 cup water, 2 tablespoonfuls caramel. Boil until it threads and then pour into the well-beaten whites of 2 eggs, beating continuously until all the syrup has been added.

Gooseberry Pudding.

Fill a pudding dish one-half full of gooseberries, add sugar and a little water. Spread over the berries the following batter: One cup flour, one teaspoon baking powder, salt, one egg, one tablespoon butter, one-half cup milk. Bake a nice brown in the oven; do not bake too quickly or the berries will not cook. Serve with sauce.

Gooseberry Sauce.

Top and tail the berries put to cook in a small quantity of water. Add sugar when done.

Browned Potatoes.

Peel and boil large potatoes, place potatoes into a pan, dredge with flour, pour about two teaspoonfuls of melted butter over each potato, sprinkle with salt, brown in a hot oven, serve with gravy.

Stewed Peas.

Shell sufficient peas for a meal. Cook in a small quantity of water; when done add enough milk to nearly cover, add a small lump of butter and salt to season. Thicken with a little flour blended with cream.

Pea Soup.

Cook one cup peas, rub through the colander, add two and one-half cups milk and a little butter, season with salt and thicken with flour.

Buttered String Beans.

Boil the beans in salted water. Drain and pile on a hot dish, put bits of sweet butter over the top and serve immediately.

THE STRAY LIST

To whom it may concern:

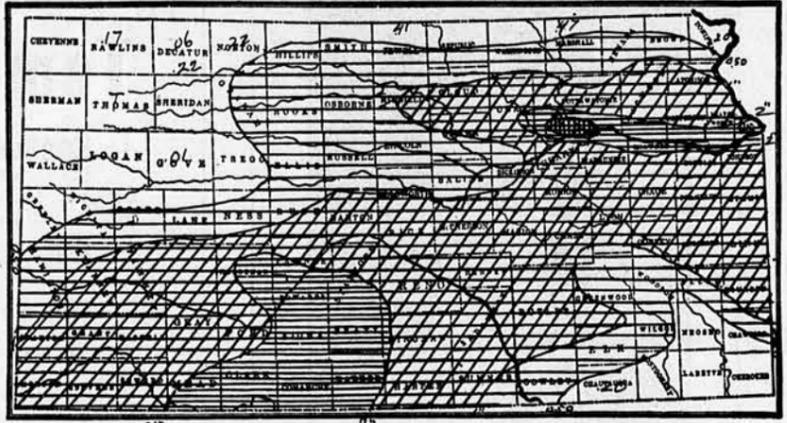
This will notify you that Mads Sorrenson, a citizen and house-holder of Elm Creek Township, Morris County, Kansas, did, on the 11th day of May, take up the following described stock, on his above described premises, as strays:

Four yearling white-face heifers, one of them bob tailed, and one of them has its right ear frozen partly off; and one white face yearling bull, with a red streak across his face; the cash value of the above stock is estimated to be \$60.

GEO. J. PARKER,
 County Clerk, Morris County, Kan.

KANSAS CROP REPORT and Rain Fall for week ending July 16

Rain chart prepared by T. B. Jennings from reports collected by the Weather Bureau.



SCALE IN INCHES:
 Less than .50 .50 to 1 1 to 2 2 to 3 Over 3 T. inches.

General Conditions.

While high temperatures have prevailed this week, yet good rains have occurred in all parts of the state except the extreme northwestern and southeastern counties, where the showers were lighter. The rainfall was quite heavy from the southwestern counties across to the north of the Kaw River; it was more than two inches in many of the southwestern counties and in the Kaw Valley and more than three inches in the southern part of Riley county.

The conditions have been of great benefit to the corn, the meadows and the pastures, also to fruits and forage crops. Corn generally is clean and has made a rapid growth; it is silky and tasseling in the southern counties and has begun to tassle in the central. Harvest is generally over and threshing has begun, showing a yield of 20 to 30 bushels to the acre of a good quality of wheat.

Results.

Eastern Division.

Anderson—Fine corn weather.
 Bourbon—Harvest progressing nicely. Crops look especially fine.
 Brown—Splendid weather for corn.
 Chautauqua—Harvest is over, now rain is needed for corn.

Coffey—A good crop of oats is in shock. Corn making good growth.

Douglas—Grain all cut and stacking begun. Favorable week for corn. Considerable timothy to cut yet for hay. Threshing has commenced.

Ellis—Rain was very beneficial but more will be needed soon. Corn commencing to silk and tassle.

Greenwood—A splendid corn week.
 Jefferson—Fine growing weather. Wheat and oats in shock. Cutting crop alfalfa. Prospects for a good corn crop.

Linn—Ample moisture. Corn doing finely. Pastures improved. Threshing begun. Wheat averaging 18 bushels, quality fine. Oats all out. Flax being cut.

Marshall—Good rains in north portions, heavier in south portions; corn good; potatoes fair. Wheat and oats harvest nearing end, quality fair, oats good. Putting up second crop alfalfa. Early apples fair crop. Some peaches (\$1.50 per bu.).

Nemaha—Corn ready for third plowing. Early peaches and apples ready for use.

Wabaunsee—Conditions good. Corn clean and ground well worked, most of it four times. Oats good. Pasture good. Cutting second crop alfalfa.

Middle Division.

Barber—Splendid week for crops. Corn looks the best of the season and promises a large crop. Crops and pasture greatly benefited by the rains.

Barton—Wheat all in shock or stack. Shock threshing begun. Corn in fine condition, early planted is tasseling. Pastures and meadows freshened. Hot winds on the 14th.

Dickinson—A fine week for corn and it is in good condition.

Harper—Temperatures running high. Conditions much improved by the rains of the 11th, though some corn had been severely damaged. Fruit crops generally good where not destroyed by hail.

Kingman—The rain of great benefit to corn and other growing crops. Most farmers plowing where ground not too wet.

McPherson—Oats mostly stacked, some being threshed, yield 30 to 50 bu. Corn doing well. Ground in good condition, plowing begun.

Marion—Harvest is over. Oats being threshed, yielding 25 to 50 bu. Corn fine, most of it laid by.

Pawnee—Harvest finished. Threshing and plowing begun. Corn in fine condition, clean and laid by. Threshing shows wheat yielding 20 to 30 bushels.

Phillips—Good rains south 11th, north 14th. Harvest over, threshing begun. Second crop alfalfa being cut, light crop.

Saline—Good showers nights of 11th and 12th just in time to prevent serious damage to the corn.

Western Division.

Clark—The showers are fine for corn, Kafir corn and all feed crops. Harvest over. Threshing begun, yielding 20 to 30 bushels per acre.

DeWatur—Corn making good growth, was much benefited by the recent showers. Half the wheat in stack and harvest rapidly nearing completion.

Gove—Harvest in full blast. Wheat better than expected. Needing rain for corn. Hamilton—Good showers on 12th.

Holtzman—Harvest about over. Threshing begun. Corn looking fine. A good many chinch bugs.

Kearny—All growing crops doing finely, and making rapid growth where well worked. All kinds of stock doing well.

Norton—Wheat harvest over, oats nearly done. Corn, meadows and pastures suffering from rain except in southeast part, where some damaged by hail.

Rawlins—Corn still growing. Harvest about finished. Good shower 13th.

Scott—Needing rain but nothing suffering.

Thomas—Only a trace of rain this month. Harvest two-thirds done. Crop a little light. Rain needed for corn and forage.

Trego—One and a half inches rain first half of July and corn in good shape. Harvest well along.

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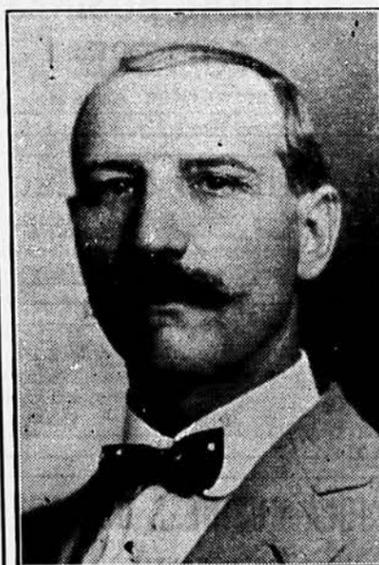
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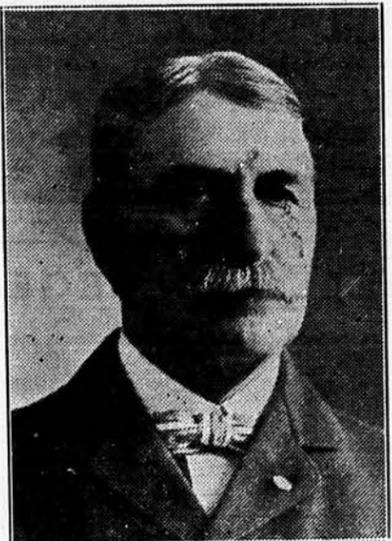
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GEORGE W. KANAVAL

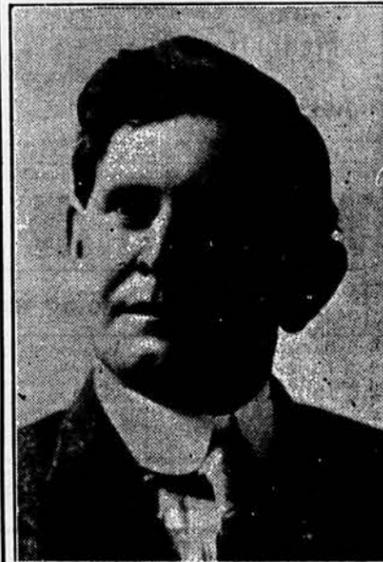
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Realizing the absolute necessity of procuring an education, he returned to his old home in Illinois, working for his board the first winter in order to attend school. The following winter he was appointed janitor of the village school with privilege of attending recitations, carried the mail on horseback and worked as a painter during vacations, and with his meager savings was enabled to attend a normal school in order to prepare himself for a teacher. Returning to Kansas, he again went upon the farm, teaching school during the winter months, later serving his county as Register of Deeds and County Clerk.

In 1899 he was appointed Clerk in the State Insurance Department. He has remained during the administrations of Superintendents Church and Luling and is now serving his fourth year as Assistant Superintendent of Insurance under Charles W. Barnes. He has worked "from the bottom up," and knows the duties of the office as well as any one in the state. He has made good in every position which he has ever held. He is now asking for a promotion. Will YOU assist him in this ambition? You can do so, on August 2, by casting your

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WE WANT YOUR NAME. If you are thinking of changing your location, or if you are looking for a good safe investment, we want to know about it. We want to have the opportunity of telling you about the best proposition in west central Kansas. We want to send you some literature that will give you some reliable information about Ness county. Send us your name and address today if interested. Wheat and Alfalfa Lands. BRASSFIELD & MCKINLEY, Ness City, Kan.

FINE IMPROVED 160, 5 miles out, \$5,700; terms. L. F. Thompson, Norwich, Kan.

OTTAWA COUNTY BARGAINS. 160 acres, 3 miles town, 110 cultivation, balance pasture, 4-room house, barn, 65 acres wheat, all goes with possession, \$6,500. Easy terms. New list free. J. S. BOYLE, Bennington, Kansas.

FOR REPUBLIC COUNTY. Corn, wheat and alfalfa lands, at reasonable prices on good terms. Write or see HALL & CARTENSEN, Belleville, Kansas

MONTGOMERY COUNTY LANDS. Montgomery County is second in population and 5th in wealth in Kansas. Write for list of choice farm bargains and prices. W. J. BROWN & CO., Independence, Kan.

CHOICE KANSAS FARMS in Smoky Valley, Saline and McPherson counties, where you can raise alfalfa, corn and wheat with profit. Write for information and list. DAVID BACHMAN, Lindsborg, Kansas.

IF YOU WANT to buy Trego County corn, wheat and alfalfa land, at \$15 to \$40 per acre, write for free information about this section. SWIGGETT, THE LAND MAN, Wakeeney, Kansas.

IF YOU ARE INTERESTED IN CENTRAL KANSAS, WESTERN KANSAS OR COLORADO LANDS FOR A HOME OR INVESTMENT, STATE YOUR CHOICE TO C. C. WALLACE, BROOKVILLE, KANSAS.

1120 ACRE COMBINATION RANCH. 25 head horses and colts, above average, and one registered Percheron stallion. Write for particulars. 80 acres first-class alfalfa land in famous Artesian Valley at a great bargain. WM. MILLER, Meade, Kansas

ELLIS AND TREGO COUNTY LANDS at the lowest prices, on the best terms. Write for list, sent free. C. F. SCHEPMANN, Ellis, Kansas.

ELK COUNTY, KANSAS. Farms and stock ranches, at low prices on good terms. Lands still sell here for less than their real value. Write me for full information. J. F. BELT, Longton, Kansas.

CORN, WHEAT AND ALFALFA LANDS in Cloud, Washington and Republic counties, where all staples produce bountiful crops and prices are advancing rapidly. Best section in Kansas for a home or investment. Write for a free list. NELSON LAND CO., Clyde, Kansas.

MONTGOMERY COUNTY BARGAIN. 320 acres, 4 miles town, 130 acres in cultivation, 100 meadow, balance pasture; well improved; close to school; price \$45 per a. terms. Other farms. Write for free list. J. A. METCALF, Elk City, Kansas.

FREE list of lands, ranging in price from \$10 to \$30 per acre, well located, near churches, schools and markets in Rawlins and Cheyenne counties, Kansas, and Hitchcock Co., Nebraska. Send your name today. S. C. ALLEN, Herndon, Kansas.

THIS WEEK'S BARGAINS. 2,000 a. timber land in Alabama at \$3 per a. See what this will make you while you sleep? Western Kansas land on the new R. R. survey at \$8 to \$10 per a. Bargains 'n' mills, electric light plants and Kiowa Co. wheat lands. Address H. M. DAVIS REALTY CO., Greensburg, Kansas.

MARION, MORRIS AND DICKINSON County, Kansas, lands. Bargains in improved farms at prices ranging from \$45 to \$80 per acre. Write for big list. T. C. COOK, Lost Springs, Kansas.

ASK WHY LAND IN SHERMAN COUNTY, KANSAS will make the investor or the farmer money purchased at present prices. Many inducements here that are not to be found elsewhere. T. V. LOWE REALTY COMPANY, Goodland, Kansas.

LIVE AGENT WANTED in your locality to assist in selling corn, wheat and alfalfa land. We own thousands of acres in Pawnee and adjoining counties. Write us for a proposition on our own ranches. FRIZELL & ELY, Larned, Kansas.

MEADE COUNTY BARGAIN. 320 acres Meade Co., Kan., small house, good well and windmill, barn, all fenced, 175 acres in wheat, all of which goes to purchaser, 7 miles of Plains, Kan., close to school and church. Write for others. CARLISLE & DETTINGER, Meade, Kansas

SHARON COUNTY ALFALFA LANDS. Choice corn and alfalfa farms for sale in Barber county, Kansas. Crop failure unknown. Write for particulars and list. Address WILLIAM PALMER, Medicine Lodge, Kansas.

NESS COUNTY WHEAT LAND. Produces wheat, corn, alfalfa, cane, Kafir corn, broom corn, millet, etc. Raw land \$12.50 to \$25 per acre. Improved land \$15 to \$30 per acre. Fine land, soil and water. Write or come and see. J. G. COLLINS, Ness City, Kansas.

CHEAP DIRT in Trego Co., Kan. S. W. 1/4 of 12-15-24. This is wheat land, 100 acres, smooth land, balance pasture and is guaranteed to be as represented, 10 miles to Ransom. Black soil, very productive, good locality, priced \$5 per a. under market. Changing business and must sell. Price \$10 per a., mortgage \$840 at 6 per cent for 5 years. C. E. Tinklin, Corning, Kansas.

TREGO COUNTY LANDS. If you are looking for a snap here it is, 160 acres, all in cultivation, 1/4 to go with it. All perfectly level, German Lutheran neighborhood, 12 miles south of Wakeeney. Price \$3,500, \$1,200 cash and balance in five equal annual payments. Write us for other bargains. KANSAS AND COLORADO LAND CO., Wakeeney, Kansas.

KANSAS FARMS FOR SALE. 210 a. near town, \$55 an a. 240 a. fine paying farm near town, \$40 an a. 160 a. finest in the county for the money, \$80 an a. Plenty of other fine bargains. Tell me what you want and I will get it for you. HOWARD, "THE LAND MAN," 221 East Douglas, Wichita, Kansas.

SOMETHING GOOD. 200 acres, adjoining a small town in Sumner county good 5-room house, new barn 32x40, granary for 1600 bushels, this farm lies fine, deep rich soil, all tillable, except possibly 5 acres, 160 in cultivation, 40 in pasture. If you are looking for SOMETHING GOOD, at a low price and easy terms do not let this get away from you. Price \$55 per acre; \$5,000 can be carried back on long time. SHARP REALTY COMPANY, Turner Building, Wichita, Kansas.

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

H. J. SETCHEL & SON, Real Estate, Morland, Kan. Send for free list of Graham and Sheridan county lands.

IMPROVED FARMS in S. W. Kansas and N. W. Oklahoma, \$10 to \$25 per acre. Write Moore & Falls, Liberal, Kansas.

320 ACRES, good smooth, mow-land, 4 mi. good town; well watered and well grassed; in heart of the alfalfa, corn, clover and blue-grass belt, \$17 an acre. Terms. Other snaps. New list free. O. H. MARTIN & CO., Severy, Kansas.

LANE COUNTY, KANSAS offers bargains in wheat and alfalfa ranches at \$10 to \$20 per acre. Write for my price list and investigate at once. WARREN V. YOUNG, Dighton, Kansas.

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

COWLEY COUNTY BARGAIN. 284 acres, 2 1/2 miles of Arkansas City, 160 acres in Arkansas river bottom land, 40 acres in alfalfa, 120 for corn, 9-room house, bank barn 36x40, small orchard and windmill. Price \$57.50 per acre. Write R. A. GILMAR, Arkansas City, Kansas.

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

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

HOW IS THIS? A nice suburban tract of 60 acres, located close to good small town, 20 acres cultivation, 10 acres meadow, balance fine pasture, with lots of good running water and timber. Fruit of all kinds, new 4-room house, barn 22x34, other improvements. A snap at \$2,500. D. M. WATKINS, Moline, Kansas.

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

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

DOUBLE YOUR MONEY. Buy this 735 a. farm and double your money in 2 yrs., lays 5 mi. from Kansas line in Okla., land no better on Kansas side selling for \$40 to \$50 per a., 2 sets of improvements and schoolhouse on farm, 159 a. in cult., bal. meadow and pasture, everlasting water, good shade, nearly all smooth, 8 mi. from R. R. town, have tel. and R. F. D. This tract just put on the market and will sell quick. You will have to hurry. \$22 per acre. THE BOWMAN REALTY COMPANY, Coffeyville, Kansas.

I SAVE SOLD my half section near Colby and now offer a fine, smooth quarter three miles from Brewster, Kan., no improvements except 40 acres under cultivation, school house across road from it. This quarter is choice and is offered for the small sum of \$2,200 cash. Another smooth quarter, 14 miles from Brewster, 55 acres under plow, sod house, good well and new windmill, and a bargain at \$2,000 cash. These are bargains and must be sold soon. Address IKE W. CRUMLY, Brewster, Kansas.

A FINE RANCH ON EASY TERMS. A fine level ranch of 1,280 acres located in Sherman County, Kansas, 4 miles south of Ruleton, the first station west of Goodland on the main line of the Rock Island railroad. All tillable, new frame dwelling, 28x42 feet, five rooms, with pantry, closets, small hall and cellar, frame barn 48x33 feet, frame granary 20x40 feet, frame stable 20x32 feet, frame cattle shed with straw roof 64x20 feet, good well, windmill, two large tanks, with abundant supply of the finest water on earth; cannot pump the well dry. Milk house, hog house, feed rack and corrals. About half cash, balance 5 years at 6 per cent. Will be sold soon. Can give possession any time. Come at once and see it and procure a bargain. Call on or address G. W. SAPP, Goodland, Kansas.

1600 A. IMPROVED LAND. Four mi. from Meade, nearly all smooth, wheat, corn, and all kinds of grain land. Owner has raised 50 bu. oats, 50 bu. barley, 30 bu. wheat, 35 bu. Kafir corn and 55 bu. corn per a. on said land. Alfalfa can be raised successfully by proper cultivation, 1 mi. to R. R. station and elevator. At present the land is operated as one farm, but could be conveniently cut up into three or four farms. Titles are all good, no incumbrances, good terms can be given if desired. There is about \$6,000 worth of stock; all will go with the place if sold soon at \$25 per a. 320 a., 4 mi. from county seat, 280 a. perfect and smooth, balance good pasture land. Price \$15 per a. 160 a., 3 mi. from Meade, 5 flowing wells, 65 a. in alfalfa, some timber, fair improvements, in the heart of the artesian valley. Price \$45 per a. HULBERT & BLACK, Meade, Kansas.

FOR FREE INFORMATION about Allen county lands write F. W. Frevert, (51 years a Kansan), Gas City, Kansas.

TREGO COUNTY LAND where prices are advancing rapidly. At low prices, on liberal terms. Near markets, churches and schools. Write for prices and descriptions. J. I. W. CLOUD, Wakeeney, Kansas.

960 ACRES of bottom land, suitable for alfalfa, now producing the finest quality of wild hay. Price \$22.50 per acre. Good terms. Will sell part or all or will trade for land in eastern Kansas. RAY JACKSON, Syracuse, Kansas.

SHERIDAN COUNTY LANDS MY SPECIALTY. WRITE M. D. GALLOGLY, REAL ESTATE BROKER, HOXIE, KANSAS.

GOOD FARM 344 acres adjoining town, highly improved. Six acres alfalfa, 5 miles fence, mostly woven wire. Further particulars write J. C. ELVIN, Harper, Kansas.

GOVE COUNTY LANDS \$8 an acre and up. If you want a good home, and an investment that will double soon, write me. THOMAS P. McQUEEN, Treasurer of Gove Co., Kansas.

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

THE HOXIE REALTY CO. Farms, ranches and city property. Some of the best wheat, corn, alfalfa and hay land in the West. Also good business propositions in Hoxie. For further particulars write us. HOXIE REALTY CO., Hoxie, Kansas.

A BARGAIN 160 ACRES, all tillable, 1/2 mile from Meade, Kansas. House 4 rooms, barn, two wells, one flowing; 110 a. in cult., 15 acres in alfalfa, balance pasture. Price \$5,000, \$2,000 cash, bal. 3 yrs. at 6 per cent. L. F. SCHUMACHER, Owner, Meade, Kansas.

Homeseekers Send for a copy of the Southwestern Kansas Homeseeker, the best land journal published. It's free to those wanting homes or investments. We make a specialty of lands or small payments and easy terms. Address THE ALLEN COUNTY INVESTMENT CO., Longton, Kansas.

Corn, Wheat, Alfalfa lands in Trego County, Kansas, where prices are advancing rapidly. Best opportunities in Kansas for homeseeker and investor. Write for our list, mailed free and postpaid. Live agents wanted. D. W. KELLER LAND COMPANY, Wakeeney, Kansas.

KINGMAN CO. LANDS Banner Wheat and Corn County of the State. Write for Selected List. BROWN REAL ESTATE CO., KINGMAN, KANSAS.

A GOOD RANCH In Chautauqua Co., Kan., 2040 acres, good improvements, good grass, plenty of living water, only two miles from railroad station. Will sell at a bargain or take some trade. LONG BROTHERS, Fredonia, Kansas.

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

LAND SNAP 50 ACRES, Anderson County, Kansas, 6 miles from Greeley, 7 miles from Garnett, 60 a. in cult., balance meadow and pasture, 160 acres, joining Harris, Kan., all tillable, 100 acres in cult., balance meadow and pasture. Price \$55 per acre, well improved. SPOHN BROS., Garnett, Kansas.

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

Here's Yours; AMBITIOUS POOR MAN A fine quarter section, all black soil, all tillable, 5-room residence, barn, orchard, etc., 1/2 mile to railway station and three miles to this city. Price only \$5,000, \$2,000 cash. Balance long time at 6 per cent. Come at once. DONAHUE & WALLINGFORD, Mound Valley, Kansas.

KANSAS LAND.

WALNUT GROVE FARM

240 acres, 4 miles from Galesburg, 3 miles from Parsons, Kan., large 2-story 7 room house, large barn, and all necessary outbuildings, 3 wells, cistern, windmill, well fenced and cross fenced. All improvements in first class repair. 150 acres under plow, 30 acres meadow, 30 a. pasture. Fine, black limestone soil, lays fine; all kinds of fruit. Price \$75. per a. if sold soon. Address or call on

A. P. ROSA, Galesburg, Kansas.

ARKANSAS LAND

BENTON COUNTY, ARKANSAS, 20 years experience. Write us about fruit farms. C. R. Craig & Co., Bentonville, Arkansas.

WRITE FOR FREE LIST of farms in famous fruit belt of N. W. Arkansas. Bargains in improved fruit, stock and grain farms. Write Trimble-Phillips-Smith, Springdale, Arkansas.

FINE PEACH ORCHARD.

345 acres 3 miles from good town, 3 fair houses, 1 barn, 50,000 bearing trees, fine land, well watered, railroad runs through the place. Price \$30 per acre. 1-3 cash, easy terms on balance. Write

H. J. MILLER, Rogers, Ark.

BENTON COUNTY SNAP.

30 acres 3 miles north of Rogers, 10 a. bearing Elberta peach trees, 15 a. 7-year-old apple trees, 3 a. timber. Price \$1,500, if taken at once. Write

BENTON CO., REALTY CO., Rogers, Ark.

FREE FARMS.

Government lands free, 1,000,000 in Arkansas for homesteading, where located and how secured shown in our 1910 booklet, sent postpaid for 25 cents.

H. GLASS & COMPANY, Harrison, Arkansas.

IMPROVED FARM BARGAIN—118 a. one mile of Fayetteville, County Seat, population, 8,000. New 7-room house, good barn, 80 acres cultivation, good water. Price \$55 per acre. Easy terms. Write the owner, J. C. MITCHELL, Fayetteville, Arkansas.

N. W. ARKANSAS BARGAIN.

92 acres, 2 1/2 miles of R. R. station, 4 roomed house and barn, fine spring in yard, 60 acres bottom land in cult., 33 acres good timber, 1/4 mile to school. Price \$2,500, Write

AUSTIN & DRENNEN, Gravette, Ark.

MISCELLANEOUS FOR SALE and EXCHANGE

BUY OR TRADE with us. Send for list. **BESSIE-MEREDITH,** Eldorado, Kansas.

TO EXCHANGE FOR KANSAS FARM. Suburban grocery stock, will invoice about \$5,000. Will assume some on farm. Residence properties in Kansas City and 20 farms, Kansas and Missouri, ranging from 80 to 400 acres each to exchange. **J. E. REED REALTY CO.,** 628 N. Y. Life, Kansas City, Missouri.

TO EXCHANGE—17-room hotel in southern Iowa to trade for cheap land or stock of goods. Several farms and city property to trade for stocks of goods. I can match any kind of trade. **Henry G. Parsons, Lawrence, Kansas.**

FOR SALE AND EXCHANGE. Kansas and Missouri farms for city property, stocks, merchandise, and other farms. Describe what you have, will make you a good trade. 1st year farms for exchange with us. **R. R. Woodward Real Estate & Investment Company, 264 N. Y. Life Bldg., Kansas City, Missouri.**

FOR SALE OR EXCHANGE. Alfalfa land in shallow water district of Oklahoma in 46 to 640 acre tracts. \$20 to \$25 per acre. For particulars write **C. B. RHODES R. E. & INV. CO.,** 4400 Helst Bldg., Kansas City, Missouri.

FOR SALE OR EXCHANGE. 240 a. less the right-of-way of the R. R. 1/2 mi. Kincaid, Anderson Co., Kan., town of 500 pop. and 2 R. R. 140 a. fine valley land; 80 a. rolling upland pasture; good new 7-room house; large frame barn; outbuildings; orchard. Price \$50 per a. A snap. **SEWELL LAND CO.,** Garnett, Kansas.

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

C. W. HINNEN REALTY CO., Holton, Kansas.

FOR SALE OR EXCHANGE. Small stock of new and second hand furniture, located in a good county seat town, R. R. division point, good business at a bargain or would take a good quarter of western Kansas land in exchange. Also 1400 a. ranch, about 400 acres cult., 100 a. old alfalfa, 50 acres new, and 100 acres more will be seeded this year. If not sold, will afford pasture for 250 head of stock; only 4 miles from good shipping point in north central Kansas. Price \$25 per acre; terms to suit. Will take part trade.

LEWIS & ELDRED, Phillipsburg, Kansas.

TREGO COUNTY

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

ED. PORTER LAND AGENCY, Wakeceny, Kansas.

Colorado Land

NEW LAND OPENING. NEAR PUEBLO, COLORADO.

Two miles from station on two trunk lines of railroad. Finest quality of alfalfa, fruit and vegetable land, ready for the plow with ample and perpetual water supply all ready to use. No failure here—water your own crops when they need it and get big results. Close to large markets with high prices. No healthier climate in the world. Good altitude, pure spring water. This is the lowest price, first class irrigated land in Colorado, and the first allotment will be sold out with perpetual water right at less than one-half the price of adjoining irrigated lands. Get in now at first cost and double your money. Excursion every Tuesday. Come with us and look this great bargain over before prices advance. Low round trip rates. Write for free booklet. Do it today.

THE HEATH COMPANY, TOPEKA, KANSAS.

EVERY DAY UNION PACIFIC EXCURSIONS

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

Kit Carson Company Kit Carson, Colorado

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

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

DO YOU WANT TO SELL YOUR FARM? Write us, we will give you good information. **Hoffman's Compiled List Report, 223 Sedgwick Block, Wichita, Kansas.**

\$7 TO \$15 PER ACRE on liberal terms. Homestead relinquishments \$100 to \$800 each. Where rainfall is plentiful and prices are rapidly advancing. Write for full information stating what you want. **Maheer & Hanks, Dear Trail, Colorado.**

SAN LUIS VALLEY. Irrigated land with perpetual water right in tracts to suit on easy terms. Prices still far below real value. Produce alfalfa, peas, potatoes, wheat, oats and fat stock.

THE TRANS-MISSISSIPPI INV. CO., Inc., La Jara, Colorado.

YUMA COUNTY, COLORADO lands that raise big crops of all staples. \$10 to \$15 per acre. Great opportunities for homeseeker and investor. I own a few quarters which I will sell cheap.

A. L. KISSINGER, U. S. Commissioner, Yuma, Colorado.

HOMESTEAD RELINQUISHMENTS and cheap deeded lands. Kiowa county, is still cheap, but is bound to develop several times in the next few years. Write for further information.

LINN & CHERMAK, Haswell, Colorado.

LANDS that raise big crops of all staples, near towns, churches, schools and neighbors, \$10 to \$25. Will locate you on a 320 acre homestead relinquishment. Act quickly. Write for full information.

Empire Land & Cattle Co., Akron, Colorado

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

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

\$ FOR \$ REALTY COMPANY, Fruita, Colorado.

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

BOYLE REALTY CO., Durango, Colorado

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

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

PAUL WILSON, Hotchkiss, Colorado.

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

BEST BIG COLORADO OPPORTUNITY. Former 4400 ranch now in alfalfa, beets, cantaloupes. Water ample. On Santa Fe and Missouri Pacific near Pueblo. Four stations on land. At half real value.

BRANDON LAND & LOAN CO., Brandon, Colorado.

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

THE AKRON LAND CO., Inc., Akron, Colorado.

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

A. J. SIMONSON, 314 Cooper Bldg., Denver, Colorado.

MONTEZUMA VALLEY LANDS. A Snap. 280 a., 220 irrigable, 100 a. in cult., all fenced; 15 a. in hay, 10 a. in orchard, one 7-room stone and one 4-room frame house, stone barn 20x70, stone wagon shed, tool and chicken house, 19 mi. from Cortez, 74 a. in irrigation district, balance covered with free water right. Price \$18,000; \$8,000 cash. Easy terms on bal., 8 per cent.

CLOSSON & HUFF, Cortez, Colorado.

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

B. W. JACKSON REALTY CO., Fort Morgan, Colorado.

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

McCRACKEN LAND COMPANY, Burlington, Colorado.

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

A. W. WINEGAR, Burlington, Colorado.

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

G. W. DINGMAN, Stratton, Colorado.

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

VINCENT & WOODS, Cortez, Colorado.

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

I. H. SHELTON, Ordway, Colorado.

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

BUTLER & HINES, Alamosa, Colorado.

MUNTZING PAYS THE FREIGHT. Farms, Sheep, and Also Cattle and Horse Ranches.

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

AUGUST MUNTZING, Akron, Colorado.

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

ALBRIGHT'S POLAND CHINAS.
The utility type, headed by N. E.'s Perfection by S. P.'s Perfection. Sows in herd carry the blood of noted sires and have been selected carefully. 40 choice pigs, both sexes, ready to ship.
A. L. ALBRIGHT, Waterville, Kansas.

RIDGEVIEW STOCK FARM, big type Poland Chinas, headed by Union Leader, Major Hadley and Hadley Prince. Sows by Expansion, Grand Look, Big Hadley, Bell Metal, etc. Spring pigs by herd boars, and Colossus. W. R. Webb, Bendena, Kan.

GEO. SMITH'S BIG POLANDS, headed by Mammoth Hadley the best son of Big Hadley. Sows, daughters of King Do Do, Johnson's Chief, Gold Metal, First Quality, Chief Gold Dust, 5 litters by Grand Model by Grand Chief. 100 choice pigs doing well.
George W. Smith, Burchard, Nebraska.

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BIG-BONED POLAND CHINAS

Spring boars for sale, sired by my herd boars: BLAINE WONDER, ORPHAN CHIEF 50986 by Orphan 47470. JOHN LONG 49897 by Long John 44640. LOGAN EX. 51718, by Mammoth Ex. 48938. The best lot I ever raised. Get your order in early and get your pick of my herd.

Roy Johnston, South Mound, Kan.

THE MORTONS

QUALITY AND SIZE POLAND CHINAS. Herd headed by Equipment \$1530 by Impudence. For quick sale 20 summer and fall gilts sired by son of Meddler 2nd, bred for August farrow. Also 3 fall boars. All representations guaranteed.
THE MORTONS, Tampa, Kansas, Marion County.

BRED GILTS

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

80 FEBRUARY POLAND CHINA PIGS 80

Large, smooth and good individually. Sired by my herd boars: Wilkes Again and Grand Success, out of as fine a lot of big type sows as there is in the west. Inspection invited.
J. B. WHIPPLE, Fall City, Nebraska.

POLAND CHINAS FOR SALE.

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

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

2 YEARLING BOARS FOR SALE.
Fine Metal by Gold Metal and John C. Hadley by Hadley Roy, both good individuals and have made good as breeders. Will price reasonable.
JOHN C. HALDERMAN, Burchard, Nebraska.

LAREDO HERD.
Poland Chinas headed by Impudence Style 133297 and F. R.'s Meddler by Meddler for sale. 15 fall gilts bred for fall farrow and 9 other gilts.
G. W. MCKAY, Laredo, Missouri.

PRINCE HADLEY heads our Poland China herd. His spring pigs are great. Others by Colossus, Mogul's Monarch, Expansion's Son, Sunflower King, Banner Boy and Meese's Mastiff. Write for description of pigs. W. C. Singer, Hiawatha, Kansas.

SULLIVAN COUNTY HERD.
Poland Chinas, 200 head in herd, best blood known to the breed. For sale 8 choice fall gilts, also 8 collic pups.
FULLER BROS., Humphreys, Missouri.

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

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

CORRECT TYPE POLAND CHINAS.
Headed by Wise's Hadley by Big Hadley. Sows by What's Ex., Kansas Chief, Nemo L's Dude, etc. 75 choice pigs to pick from.
BERT G. WISE, Reserve, Kansas.

SHORTHORN AND POLANDS.
Herd bull Acomb Duke 7th 281036. Poland headed by Big Bone Long. Females represent leading strain. Young stock for sale.
FREELAND & WILLIAMS, Valley Falls, Kansas.

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

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CLAY JUMBO 800 lbs.

The biggest yearling Poland China boar in Kansas heads our herd. Frame for 800 lbs., with plenty of quality. 100 pigs ready to ship. Reasonable prices. Herd established twenty years.
H. W. GRIFFITH, Clay Center, Kansas.

COLLEGE VIEW POLAND CHINAS.
We offer for sale some extra good pigs of March and April farrow. Plenty of size with quality. Write for prices, description and breeding.
W. A. JONES & SON, R. F. D. No. 9, Ottawa, Kansas.

FIELD NOTES

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

PURE BRED STOCK SALES.

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

Percherons, Belgians, and Shires.
Nov. 1, 2, 3, 4, 1910—Breeders' Sale Co., Bloomington, Ill.
Jan. 10, 11, 12, 13, 1911—Breeders' Sale Co., Bloomington, Ill.
Feb. 28, and March 1, 2, 3, 1911—Breeders' Sale Co., Bloomington, Ill.

Hereford Cattle.
Nov. 16—T. I. Woodall, Fall River, Kan.
Nov. 15—O. Harris, Harris, Mo.

Holstein Cattle.
Feb. 7, 8, 1911—Rock Brook Farm, Sta. B, Omaha, Neb., 150 head will be offered.

Jersey Cattle.
Sept. 1—Golden Sunrise Farm, Kansas City, Mo.

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

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

Durocs.
Oct. 19—G. Van Patten, Sutton, Neb.
Oct. 25—Leon Carter, Asherville, Kan.
Oct. 23—Thompson Bros., Garrison, Kan.
Oct. 26—F. H. Pagett, Beloit, Kan.
Oct. 27—W. E. Monasmith, Formosa, Kan.
Oct. 29—Rinehart & Slagle, Smith Center, Kan.

White Bros., Buffalo, Kan.
Nov. 4—White Bros., Buffalo, Kan.
Nov. 18—J. E. Jones, Clyde, Kan.
Nov. 19—Phillip Albrecht, Smith Center, Kan.

Jan. 20—A. T. Cross, Guide Rock, Neb.
Jan. 31—Ward Bros., Republic, Kan.
Feb. 1—W. E. Monasmith, Formosa, Kan.
Feb. 2—Thompson Bros., Garrison, Kan.
Feb. 2—G. P. Phillippi, Ebon, Kan.
Feb. 3—Rinehart & Slagle, Smith Center, Kan.

Feb. 4—W. C. Whitney, Agra, Kan.
Feb. 13—T. E. Gothe, Leonardville, Kan.
Feb. 14—Chapin & Nordstrom, Green, Kan. Sale at Clay Center, Kan.
Feb. 15—Leon Carter, Asherville, Kan.
Feb. 16—W. T. Fitch, Minneapolis, Kan.
Feb. 17—L. E. Boyle, Lindsey, Kan.
Feb. 22—Phillip Albrecht, Smith Center, Kan.

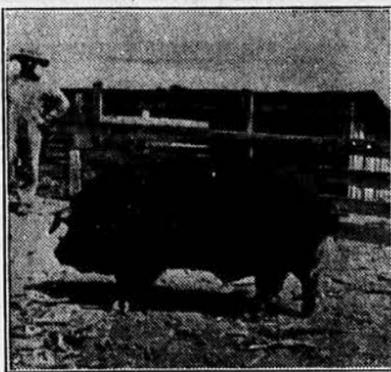
Poland Chinas.
AUG. 10—G. A. King, Cullison, Kan.
AUG. 11—E. H. Davidson, St. John, Kan.
SEPT. 20—J. D. Spangler, Sharon, Kan.
OCT. 5—Homer Cruver, Spring Hill, Kan.
OCT. 8—Bert C. Wise, Falls City, Neb.
OCT. 12—W. B. Stafford, Bronson, Kan.
OCT. 13—Bert G. Wise, Reserve, Kan.
OCT. 14—T. J. Dawe, Troy, Kan.
OCT. 15—J. B. Whipple, Fall City, Neb.
OCT. 17—A. R. Enos, Romona, Kan.
OCT. 18—Herman Groninger & Sons, Bendena, Kan.
OCT. 19—A. B. Garrison, Sumnerfield, Kan.
OCT. 20—Hubert J. Griffiths, Clay Center, Kan.

OCT. 21—J. M. Ross, Valley Falls, Kan., and W. E. Long, Ozawie, Kan., sale at Valley Falls, Kan.
OCT. 22—H. C. Graner, Lancaster, Kan.
OCT. 22—Eli Zimmerman, Hiawatha, Kan.
OCT. 25—W. C. Singer, Hiawatha, Kan.
OCT. 26—W. R. Webb, Bendena, Kan.
OCT. 26—G. M. Hull, Garnett, Kan.
OCT. 27—Walter Hildwein, Fairview, Kan.
OCT. 28—J. H. Harter, Westmoreland, Kan.
OCT. 28—J. H. Berkey, Louisburg, Kan.
NOV. 1—J. H. Hamilton & Son, Guide Rock, Neb.

- Nov. 1—H. B. Walter, Effingham, Kan.
- Nov. 1—H. F. Pelphrey, Humboldt, Kan.
- Nov. 2—J. W. Pelphrey, Chanute, Kan.
- Nov. 2—Albert Smith & Sons, Superior, Neb.
- Nov. 2. H. W. Griffith, Clay Center, Kan.
- Nov. 2—R. J. Pockham, Pawnee City, Neb.
- Nov. 3—The Mortons, Tampa, Kan.
- Nov. 3—George W. Smith, Burchard, Neb.
- Nov. 3—D. W. Evans, Fairview, Kan.
- Nov. 4—W. A. and C. Z. Baker, Butler, Mo.
- Nov. 4—Bert. C. Wise, Reserve, Kan.
- Nov. 4—G. W. McKay, Laredo, Mo.
- Nov. 5—Fuller Bros., Humphreys, Mo.
- Nov. 9—T. J. Meisner, Sabetha, Kan.
- Nov. 10—W. R. Stump, Blue Rapids, Kan.
- Nov. 11—S. B. Amcoats, Clay Center, Kan.
- Nov. 16—W. A. Prewett, Asherville, Kan.
- Nov. 19—G. W. Roberts, Larned, Kan.
- Jan. 13—H. F. Pelphrey, Humboldt, Kan.
- Jan. 19—J. W. Pelphrey, Chanute, Kan.
- Jan. 20—Roy Johnston, South Mound, Kan.
- Jan. 26—W. R. Stump, Blue Rapids, Kan.
- Feb. 7—J. M. Ross and W. E. Long, Valley Falls, Kan.
- Feb. 8—H. B. Walter, Effingham, Kan.
- Feb. 8—T. J. Charles, Republic, Kan.
- Feb. 9—Albert Smith & Sons, Superior, Neb.
- Feb. 10. J. E. Bower Abilene, Kan.
- Feb. 10—J. H. Hamilton & Son, Guide Rock, Neb.
- Feb. 10—J. H. Harter, Westmoreland, Kan.
- Mar. 4—C. H. Pilcher, Glasco, Kan.

A Big Yearling Boar.

Mr. H. W. Griffith, the veteran Poland China breeder located at Clay Center, Kansas, has, in the yearling boar, Clay Jumbo, one of the greatest young boars of the breed. Sired by Nebraska Jumbo and out of a sow by Gold Metal, he has for ancestors some of the very biggest of all noted big type Polands. He is massive in appearance with a frame for 800 pounds and only a yearling. He has a wonderful bone and strong, well arched back. This boar was bred by Ben Bell and was one of the good ones sold at Bell's last fall sale. Mr. Griffith has bred Poland Chinas for 20 years and always has a good bunch but the 100 spring pigs now on the farm are by far the best he has ever raised. Nearly all of them are by the big boar we have been talking about. The dams of the pigs are large but smooth sows, representative of the best Poland China families. Mr. Griffith understands thoroughly the art of growing out pigs in such a manner as to insure their future usefulness as breeders. The pigs at this time have large frames but are not carrying any surplus fat. They are just right to do good in new hands and will be priced reasonably. When writing please mention Kansas Farmer.



King Ex 3d by Big Blaine, dam Beauty by What's Ex, owned by W. A. Baker, Butler, Mo.

Milligan, the Poland China Breeder.

This week we start advertising for Mr. W. C. Milligan, Poland China breeder of Clay Center, Kansas. Mr. Milligan has one of the finest bunches of spring pigs to be seen anywhere. Sired by the Vctor, Perfect Mischief, Senator and Voter's Pride, an excellent son of Voter. A litter of outstanding merit and one of the best litters the writer has seen this season is by Voter and out of the noted sow Penelope by old Meddler. There are three boars and one gilt in this litter. The boars are of the regular herd boar type and must be seen to be appreciated. Mr. Milligan is being urged to show this litter and should he decide to do so will no doubt be well paid for his trouble. The pigs all the way through are very even, well formed and growthy, showing that they have been cared for by a master hand. The pigs by Perfect Mischief are very stretchy and chuck full of quality. There isn't a bad foot or back in the entire lot, and all of them have the nice wide heads and good ears that adds so much to the beauty and general appearance of pigs at this age. Among Mr. Milligan's sows are Bridget a very large well formed sow that always raises large litters. Della Correct by Courtier, he by Corrector 2nd, Correctess by the same sire, Chief Princess, granddaughter of old Skybo, and Penelope, daughter of Meddler. The grand old sow Miss G. is also in the herd along with the world's champion Vctor. Write Mr. Milligan for description and prices on pigs mentioning Kansas Farmer.

Enos Visited.

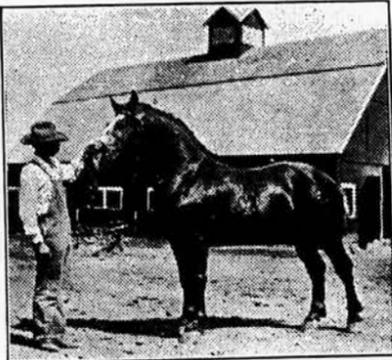
A recent visit to the oldtime Poland China breeder, A. R. Enos, now located at Romona, Kan., reveals the fact that Mr. Enos has lost none of his enthusiasm and has the best lot of big type pigs he ever had on the farm at this season of the year. There are about 60 of them, all but one litter sired by a great young son of Big Hadley. His dam is the sow Goldust Tecumseh, which topped John Blain's closing out sale at \$251. She is perhaps the greatest sow ever owned by Mr. Blain. Mr. Enos' boar is brother to the boar and gilt that topped Blain's last fall sale and also belongs to the high priced litter. He comes from a famous line of brood sows and is himself one of the best individuals now doing service in any Kansas herd. He measures in his yearling form 61 inches heart girth, and has 9 1/2 inch bone. His pigs are big, broad, strong fellows with splendid arched backs. It is doubtful if a better lot of legs and feet were ever seen on one bunch of pigs. Mr. Enos has a bunch of sows that are fit to match the great boar that he has mated with them. Among them daughters of Blain's Wonder, Miss Highland Chief, Jr., Elk Chief, a near descendant of Big Chief Tecumseh 2nd, Commoner, Upper Crust, Colossus, etc. Write Mr. Enos for an honest description of any pig and you will get it. Mention Kansas Farmer when writing.



The Poland China sow, Crowned Princess, by Prince You Tell; litter of 7 pigs by Silver Metal; owned by Homer Gruver, Spring Hill, Kan., whose young son acts as herdsman.

Angus Cattle to the Fore.

Secretary Chas. Gray of the American Aberdeen Angus Breeders' Association, 317 Exchange Ave., Chicago, Ill., has issued a very handsome booklet on "The Supremacy of Aberdeen Angus Cattle." In addition to the numerous illustrations the booklet contains a surprising lot of statistical and other matter arranged to prove the contention suggested in the title. Facts and figures from the great American and English shows of both fat and breeding stock are given, papers by authorities are presented and the whole booklet is arranged to carry conviction to the minds of the unknowing that the Angus is the best and most profitable animal on the block. The booklet is worthy of its object and Secretary Gray is to be congratulated.



Fercheron Stallion Halboury by Marsellais, dam Gentelle, weighed 1,950 at 30 months. Imported by W. L. DeClow, Cedar Rapids, Iowa, and owned by A. W. Shriver, Cleveland, Kansas.

Herd Bours Sired by a Champion.

T. M. Chambers of Oswego, Kan., is offering a few choice fall and winter herd boars, sired by the noted Ten Strike and out of very high class sows. These young boars are nicely grown and have lots of quality. They are priced very reasonable for quick sale. Write your wants and kindly mention the Kansas Farmer.

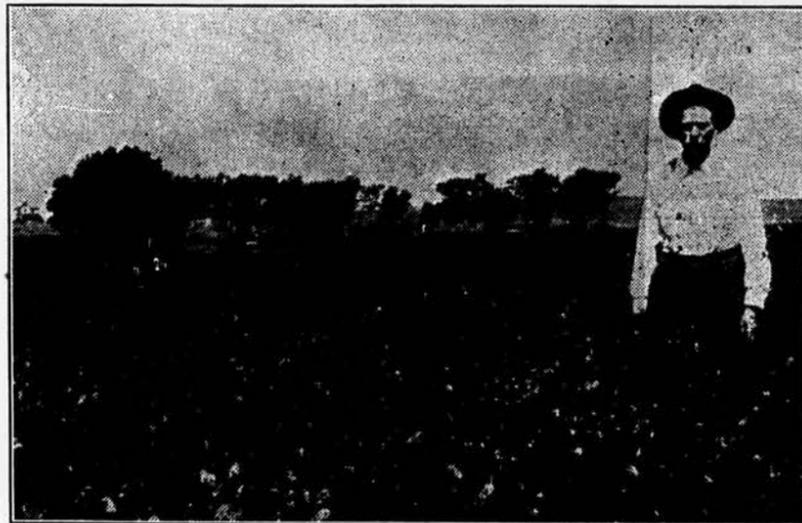
Editor Kansas Farmer:

With great pleasure, interest, and information I read your splendid article in the Kansas Farmer about the Hays Experiment Station work. The succeeding number about Commencement Exercises at the State Agricultural College was also very greatly enjoyed.

H. C. RUSHMORE,
Wyandotte County, Kansas.

Jersey Bulls.

In this issue Mr. W. N. Banks of Independence, Kan., is offering for sale at very low prices ten registered Jersey bulls. They are good individuals, being well grown out and are from a noted sire and out of cows with very high butter tests. His 2-year-old heifers have made from 20 to 39 pounds of 5 1/2 per cent to 6 per cent milk per day. Several of the cows have made as much as 40 and some as high as 45 pounds of 5 1/2 per cent to 6 per cent milk per day, and he has no cows that will not give 32 pounds of milk per day when they are fresh. The milk from the entire herd tested 6 4-5 per cent last spring. Write to Mr. Banks for description and prices on these bulls. Kindly mention Kansas Farmer.



Alfalfa field in Meade county, Kan. First crop from a photograph furnished by L. F. Schumaker of one of the farms he has for sale.

Bred Sow Sale August 10.

We wish to call our readers' attention to the Poland China sale ad of G. A. King of Collihan, Kan. There will be 16 tried brood sows and 25 fall yearling gilts sold in this sale. A large part of the offering will be bred to the great herd boar, One Price, by Blain's Wonder, and a litter brother to King Blain. The rest of the offering will be bred to Big Wonder by A. Wonder and King Dado by Snelbinder. The catalog is now ready to mail out. Send in your name for one. It gives the pedigrees and descriptions of the herd. Mr. King would be pleased to have you attend his sale, but if you cannot come, send a bid to O. W. Davine, representing the Kansas Farmer.

Bowser Has 175 Pigs.

Mr. J. E. Bowser of Abilene, Kan., is one of the successful Poland China breeders of Kansas. Mr. Bowser always has a choice bunch of pigs to show at this season of the year. This year's crop number 175, nearly all sired by his outstanding good yearling boar, Bell Metal M by Bell Metal. Others are by Success by Grand Success, his dam by Osborne's Perfection. Mr. Bowser has a most excellent herd of sows very uniform and all of them large size. Among those of unusual merit are Black Bessie by Advance \$692, Model Lady by the \$250 Gold Metal. Her dam was Lady You Tell 6th, by Silver Chief. She has eight choice pigs. Several good ones by Welch, a son of Ohio U. S. 22988. Several by Prince, a son of Stylish Lad. Grace Delight, a daughter of Perfect I Know, and Goldie Bell by Nebraska Jumbo out of a dam by Gold Metal. Mr. Bowser's pigs are very long and heavy boned and the kind that the best judges are seeking. Advertising will appear in this paper later. In the meantime should you write Mr. Bowser about the pigs kindly mention Kansas Farmer.

Building with Concrete.

It is very seldom that a manufacturing firm gives away such a valuable book as that recently issued by the Atlas Portland Cement Co., of New York. It contains over 100 pages of practical, vital information on the cement building question, as well as many beautiful illustrations showing exactly how cement can be used by farmers for building purposes. It also contains many building plans which are absolutely necessary for a farmer to know who is contemplating building with cement. The name of this book is "Concrete Construction About the Home and on the Farm." If you will mention this paper and write to the Atlas Portland Cement Co. at 30 Broad Street, New York City, they will send you a copy free. Be sure, however, to tell them that you saw this announcement in Kansas Farmer as you will then be sure to get prompt attention.

Successful Hay Farmers Give Secrets.

Just what would be the net result of interviews with 50 of the most successful hay growers in America ought to be of considerable interest to every farmer whether he pays little or much attention to this valuable crop. Such a book dealing with real practical methods, employed by these kings of hay growers, telling when they cut, how they cure their hay,—how they take advantage of the market, and many other pointers ought to be of the greatest value to other farmers. Mr. E. P. Ross of the Auto Fedan Hay Press Company, 1564

West 17th St., Kansas City, Mo., has prepared just such a book, which he is giving free to all hay growers who write for it, mentioning Kansas Farmer.

A New Disk Pulverizer.

Ever since the idea of dry farming was demonstrated to be practical in the west its adaption to other localities has been attempted. Success has followed it everywhere because the underlying principle is a sound one. The deep plowing to furnish a moisture reservoir, the finely pulverized surface, to protect against evaporation and the sub-surface packing of the soil to give a compacted seed bed for the growth of the tiny rootlets without disturbing the soil much have proved to be the best practice in other localities than the "semi-arid" west. Results are what count and these are obtained only with the aid of the sub-surface packer. Invention has added to the efficiency of this machine and it is now made as an attachment to the grain drill where it does its most profitable work. This machine is made by the William Feizer Co., of Springfield, Ill., who will send you a free booklet if you will mention the Kansas Farmer.

Smashing the Price of Gasoline.

Unless kept in air-tight underground tanks, the handling of gasoline causes great waste, on account of leakage, evaporation, etc. You'd be surprised to know how much is wasted by evaporation, just by handling a few gallons two or three times. Because of the waste and evaporation, it is necessary for the dealers to charge high prices, and so business farmers have found that they could easily afford to install underground gasoline tanks on their farms in order to buy their gasoline at wholesale, and save 4 to 6 cents on every gallon. An underground tank soon pays for itself, and, when once put in, it lasts a long

time. Of the underground tanks now used on farms, the favorite is the B. M. C. It is made of durable, non-rusting metal, equipped with an excellent double-acting brass oil pump. We do not know how a better tank for this purpose could be had. Our readers who have gasoline engines, gasoline stoves or automobiles should learn at once the difference between their home retail price and the wholesale price of gasoline. In the meantime, consult the Butler Manufacturing Company, 1429 West Tenth St., Kansas City, Mo., and get their specifications and prices on underground tanks. Write them today, and the next time you are in town inquire around and get the retail and wholesale prices of gasoline.

An Open Secret.

What makes the farmer's smile so bright.
His step so firm, his heart so light?
What makes his fields so fair a sight?
Why, POTASH!
What makes him watch with twinkling eye
His oats and barley, wheat and rye,
While they go climbing toward the sky?
Its POTASH!
What gives him credit everywhere;
Good books to read; good clothes to wear,
And wins the sweepstakes at the fair?
Why, POTASH!
What keeps his funds from running low?
What makes him rich and goes to show
That debts alone refuse to grow?
Its POTASH!
—N. P. Jones.

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