

# KANSAS FARMER

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## The Independent Colleges of Kansas

By FRANK K. SANDERS, Ph. D., D. D.

President of Washburn College, Topeka, Kansas.

Kansas is well supplied with institutions of higher learning which derive their revenues from private sources and are only in a general way under the control of the state. There are no less than forty colleges and academies reported by the state department of education. Of these, fourteen are fully accredited colleges, whose graduates, if they have included in their course of study the prescribed course in education, are granted a three-year renewable certificate to teach in the public schools of the state.

These fourteen institutions of higher learning have about \$5,000,000 of invested funds, employ a faculty of over five hundred professors in their departments of liberal arts, and instruct some eight thousand students or more annually at a very low aggregate cost.

These colleges have an important place among the educational forces of Kansas. It is probable that with the growing ability of the state to furnish secondary instruction of the highest grade, the academies will eventually be reduced to two or three or will disappear altogether, but no such probability appears with reference to the colleges. They are as permanent in theory as the state supported institutions. Were all of them to cease to be, the state would be quite unable to meet its educational needs except by creating new institutions to supply the place.

The present writer is a very sincere friend and well wisher of Chancellor Strong, and a hearty supporter of the State University. Between that institution and these colleges, there is no antagonism and no more of rivalry than is natural between institutions which are competing for the same class of students. The State University has its own difficult problems, and these are legion. Size is not in itself an educational advantage. An elephant is big enough to catch mice, but cannot do so. In some states, such as Michigan, by pursuing rather relentlessly for years the policy of excluding the small colleges and of monopolizing the high school graduates, the University has come as nearly as possible to being the one educational center. But the faculty of such a swollen institution will bear testimony to its unwieldiness and inefficiency. It can offer all manner of opportunities and render untold service to the state from which it gets its support and yet be a poor place for the education of the average youth. Three sorts of students are found among the candidates for a bachelor's degree. Some are scholarly, ambitious, eager to take advantage of their opportunities. These men and women need guidance only. They will do well anywhere. They know what they want educationally, and will devote themselves to its acquisition. Some are unscholarly, listless, interested in sports or in social events only. They do not belong at college at all, and are separated from it at an early period for normal reasons. The third class is the largest of the three. It includes the great majority of younger students. They are ready to take an active, honest, willing part in college life, but need a great deal of guidance. They are immature, inexperienced, liable to make serious al-

though unintentional errors, and must be trained into good habits of study and into steadiness of character. It is this class that is in danger at a very large institution, since its officers may not discover in time the difference between the inertia due to laziness and the inertia due to inexperience or ignorance. This is a personal problem to be determined by observation.

There are solid advantages which the independent institutions may claim, which make them worthy of the careful consideration of parents who are looking for a proper environment for their children during their educational career. Not every school possesses these advantages in like

measure, but they belong to the smaller colleges as a class.

The first and greatest advantage of the college with a few hundred students is its ability to keep close track of individual students. The faculty of such an institution can readily carry each student in mind, and repeatedly and purposely talk over the cases of students who for any reason are falling below a suitable standard of achievement. Washburn is rapidly approaching an enrollment of one thousand. Instead of rejoicing over this fact, the faculty is somewhat disturbed by it. They realize that the passing of the 1,000 mark will change the character of the institution to some degree. But the ut-

most pains will be taken to preserve that accurate knowledge of the progress or failure of each pupil which has in the past made Washburn's reputation as a choice college for young men and women of promise.

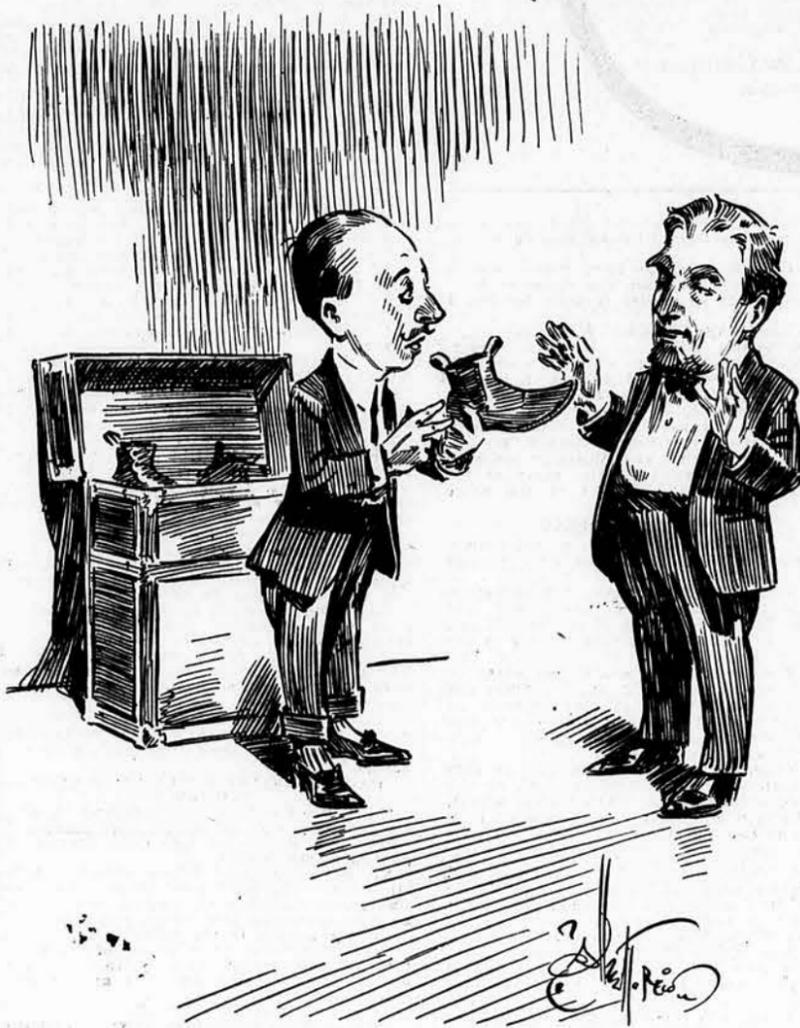
Another advantage is quite as important. In the smaller college there is a close contact between faculty and students and an immediateness in the establishment of a good understanding which are impossible in the huge institution. At Harvard and Yale there are plenty of professors with reputations that are world-wide, but the average freshman or sophomore never comes in contact with them. A man may go through his whole course and get a degree without taking a study under them, although of course it will be his own fault. But such men are specialists. They pay no attention to the students who do not seek their classrooms, and very little attention to any but the pick of these. So in our own University there are hundreds of students who go there for a year or two without getting much contact with the really great instructors on the faculty. The educational problem is not what to do with our best men and women. That settles itself. Such students are successful anywhere. The best that any institution has to offer is theirs. The real problem concerns the ordinary inferior student, the one who needs advice and stimulus, whose purposes are good but not settled, who will waste time and energy and money, if left alone. This is the class which finds the freedom of the great university dangerous. Such are not ready for it. They need friendly advice and some supervision.

This leads us to a third advantage of the independent college. Not alone does a new student come quickly into inspiring contact with the best men on the college faculty, but the members of the faculty are able to deal directly and authoritatively with him in matters of minor discipline. The theory of a university is absolute freedom; the theory of the college is regulated freedom, a self direction which is permitted so long as it is intelligent and democratic, but which is not allowed to injure either the individual or the educational community. The average freshman needs a good deal of wise and friendly guidance. A university gives this with some difficulty; the college with ease.

Similarly, the college has a marked advantage in the matter of religious influences. The difference is not so great in the state of Kansas as in other states, because of the fine Christian character of the heads of our state institutions and because of the relative freedom permitted them by the state in promoting the religious interests of the students. Even in Kansas, however, there are decided limits beyond which the regents are unwilling to sanction action. The officers and faculties cannot be as direct and whole-hearted in their advocacy of religious culture as the officers and faculty of an institution avowedly Christian and absolutely independent. The latter school can create and maintain a religious atmosphere which is impossible to the university.

(Continued on page 6.)

### Something Better Wanted.



Kansas Farmer to "Cheap Farmer Line" Salesman:—"Oh no, we don't want that kind of stuff at all. You are five years behind the times in bringing any of it out here. We are buying the best brands—3,600,000 pairs of them a year. Go home and get a line of real, up-to-date goods and we will do business."



# Lightning Proof Forever — and Insured!

That means your home and buildings when they are equipped with **Shinn Heavy Pure Copper Cable Lightning Rods!**

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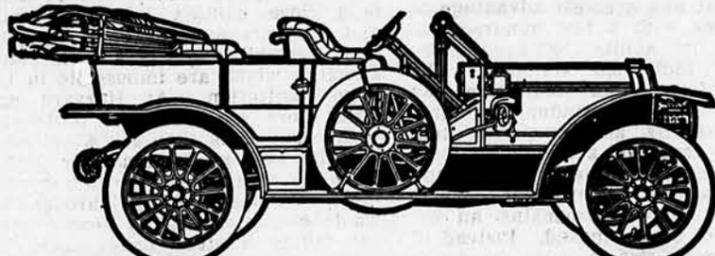
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A postal card will bring you a free copy of the Rambler Magazine.

**Thomas B. Jeffery & Company**  
Kenosha, Wisconsin



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CAPITAL HAT CO., Box 1121, Oklahoma City

and clean, more than fifty per cent of the hard varieties, and weigh not less than fifty-seven pounds to the bushel.

No. 2 Northern Hard Spring.—Must be northern grown spring wheat, not clean or sound enough for No. 1, more than fifty per cent of the hard varieties, and weigh not less than fifty-six pounds to the bushel.

No. 3 Northern Hard Spring.—Must be northern grown spring wheat, of inferior quality, more than fifty per cent of the hard varieties, and weigh not less than fifty-four pounds to the bushel.

No. 4 Northern Hard Spring.—Shall include all inferior northern grown spring wheat that is badly shrunken or damaged, more than fifty per cent of the hard varieties, and weigh not less than forty-nine pounds to the bushel.

### SPRING WHEAT.

No. 1 Spring.—Shall be bright, sound and well cleaned spring wheat, weighing not less than fifty-nine pounds to the bushel.

No. 2 Spring.—Shall be sound, clean, of good milling quality and weighing not less than fifty-seven pounds to the bushel.

No. 3 Spring.—Shall include all inferior shrunken or dirty spring wheat and weigh not less than fifty-five pounds to the bushel.

No. 4 Spring.—Shall include all spring wheat damp, musty, sprouted or for any cause which renders it unfit for No. 3, and must not weigh less than fifty pounds to the bushel.

### WHITE SPRING WHEAT.

The grades of No. 1, 2, 3, and 4 White Spring Wheat shall correspond with the grades No. 1, 2, 3 and 4 Spring Wheat, except that they shall be of the White variety.

### DURUM (Macaroni) WHEAT.

No. 1 Durum.—Shall be bright, sound, dry, well cleaned Durum wheat commonly known as Macaroni wheat, and weigh not less than sixty pounds to the bushel.

No. 2 Durum.—Shall be dry, clean, and of good milling quality, and weigh not less than fifty-eight pounds to the bushel.

No. 3 Durum.—Shall include all Durum wheat bleached, shrunken, or for any cause unfit for No. 2 and weigh not less than fifty-five pounds to the bushel.

No. 4 Durum.—Shall include all Durum wheat badly bleached, smutty, tough, and weigh not less than fifty pounds to the bushel.

### PACIFIC COAST RED AND WHITE WHEAT.

No. 2 Pacific Coast Wheat.—Shall be dry, sound, clean, may be tainted with smut and alkali, and weigh not less than fifty-eight pounds to the bushel.

No. 3 Pacific Coast Wheat.—Shall include all other Pacific Coast Wheat, may be smutty, or musty or for any cause unfit for flouring purposes and weigh not less than fifty-four pounds to the bushel.

NOTE.—In case of mixture of Red or White Pacific Coast Wheat with our home wheat, such mixture shall be graded Pacific Coast Wheat.

### MIXED WHEAT.

In case of an appreciable mixture of hard and soft wheat, red and white wheat, Durum and spring wheat, with each other, it shall be graded according to the quality thereof, and the kind of wheat predominating shall be classed as No. 1, 2, 3 or 4 mixed wheat, and the Inspector shall make notation describing its character.

### RYE.

No. 1 Rye.—Shall be plump, sound, dry and free from other grain, well cleaned.

No. 2 Rye.—Shall be plump, sound, clean.

No. 3 Rye.—May be shrunken, bleached and not clean enough for No. 2.

No. 4 Rye.—To include all tough, musty or dirty rye unfit for No. 2.

### OATS.

No. 1 White Oats.—Shall be pure white oats, dry, sweet, sound, clean, and free from other grain.

No. 2 White Oats.—Shall be seven-eighths white, sound, dry and contain not more than 1 per cent each of dirt or foreign matter or 3 per cent of other grain.

No. 3 White Oats.—Shall be seven-eighths white, sound, dry, not more than three per cent of dirt or foreign matter, nor five per cent of other grain.

No. 4 White Oats.—Shall be seven-eighths white, tough, musty, or from any cause unfit for No. 2.

### RED OATS.

The grades No. 1, 2, 3 and 4 Red Oats shall correspond with the grades No. 1, 2, 3 and 4 White Oats, except that they shall be of the Red variety.

### MIXED OATS.

No. 1 Mixed Oats.—Shall be mixed oats of various colors, dry, sound, sweet, clean, and free from other grain.

No. 2 Mixed Oats.—Shall be mixed oats of various colors, dry, sound, sweet and not contain more than 2 per cent of dirt or foreign matter or 3 per cent of other grain.

No. 3 Mixed Oats.—Shall be mixed oats of various colors, sweet, shall not contain more than 2 per cent of dirt or foreign matter or 5 per cent of other grain.

No. 4 Mixed Oats.—Shall be mixed oats, tough, dirty, or from any cause unfit for No. 2.

### STANDARD WHITE OATS.

Shall be seven-eighths white, sound, sweet and shall not contain more than 3 per cent of dirt or foreign matter or 5 per cent of other grain.

### PURIFIED OATS.

All oats that have been chemically treated or purified shall be classed "PURIFIED OATS," and inspectors shall make note of the same on certificates of inspection.

### BARLEY.

No. 1 Barley.—Shall be sound, bright, sweet, clean and free from other grain.

No. 2 Barley.—Shall be sound, dry and of good color.

No. 3 Barley.—Shall include shrunken, stained, dry barley unfit to grade No. 2.

No. 4 Barley.—Shall include tough, musty, dirty barley.

### SPELTZ.

No. 1 Speltz.—Shall be bright, sound, dry and free from other grain.

No. 2 Speltz.—Shall be sound and dry and not contain more than 10 per cent of other grain.

No. 3 Speltz.—Shall be dry, not sound enough for No. 2 and contain not more than 10 per cent of other grain.

No. 4 Speltz.—To include all speltz that is dirty, musty or tough.

### CORN.

The following maximum limits shall govern all inspection and grading of corn:

Grade	Percentage of moisture	Percentage rotten exclusive of bin burned	Percentage dirt and broken kernels
No. 1	15	1	1
No. 2	15.50	1	1
No. 3	16	10	4
No. 4	22	..	..

### WHITE CORN.

No. 1 White Corn.—Shall be pure white corn and sweet.

No. 2 White Corn.—Shall be fifteen-sixteenths white, sweet.

No. 3 White Corn.—Shall be fifteen-sixteenths white, sweet.

No. 4 White Corn.—Shall be fifteen sixteenths white, but shall include tough, musty and damaged corn.

### YELLOW CORN.

No. 1 Yellow Corn.—Shall be pure yellow corn and sweet.

No. 2 Yellow Corn.—Shall be seven-eighths yellow and sweet.

No. 3 Yellow Corn.—Shall be seven-eighths yellow and sweet.

No. 4 Yellow Corn.—Shall be seven-eighths yellow, but shall include tough, damaged or musty corn.

### MIXED CORN.

No. 1 Mixed Corn.—Shall be corn of various color and sweet.

No. 2 Mixed Corn.—Shall be corn of various colors and sweet.

No. 3 Mixed Corn.—Shall be corn of various colors and sweet.

No. 4 Mixed Corn.—Shall be corn of various colors, but shall include tough, damaged or musty corn.

### KAFFIR CORN.

No. 1 White Kaffir Corn.—Shall be pure white of choice quality, sound, dry and well cleaned.

No. 2 White Kaffir Corn.—Shall be seven-eighths white, sound, dry and clean.

No. 3 White Kaffir Corn.—Shall be seven-eighths white, not dry, or clean, or sound enough for No. 2.

No. 4 White Kaffir Corn.—Shall be seven-eighths white, tough, damaged, musty or dirty.

### RED KAFFIR CORN.

The grades of No. 1, 2, 3 and 4 Red Kaffir Corn shall correspond with grades of No. 1, 2, 3 and 4 White Kaffir Corn, except that they shall be of the Red variety.

### MIXED KAFFIR CORN.

No. 1 Mixed Kaffir Corn.—Shall be mixed Kaffir Corn of choice quality, sound, dry, and well cleaned.

No. 2 Mixed Kaffir Corn.—Shall be mixed Kaffir Corn, sound, dry and clean.

No. 3 Mixed Kaffir Corn.—Shall be mixed Kaffir Corn, not clean, dry or sound enough for No. 2.

No. 4 Mixed Kaffir Corn.—Shall be mixed Kaffir Corn, tough, musty or dirty.

### MILO-MAIZE.

No. 1 Milo-Maize.—Shall be Milo-Maize of choice quality, sound, dry and well cleaned.

No. 2 Milo-Maize.—Shall be Milo-Maize that is sound, dry and clean.

No. 3 Milo-Maize.—Shall be Milo-Maize that is not dry, or sound enough for No. 2.

No. 4 Milo-Maize.—Shall include all Milo-Maize that is tough, musty or dirty.

The foregoing are the rules adopted by the Kansas Grain Inspection Department, establishing a proper number and standard of grade for the inspection of grain, the same to take effect on and after August 1, 1910, in lieu of all rules on the same subject heretofore existing.

D. R. GORDEN,

Chief Inspector.

306 Husted Building, Kansas City, Kan.

### OFFICIAL KANSAS GRADES.

Under provisions of chapter No. 222, Laws of 1907, the Grain Grading Commission appointed under said act met pursuant to published call at the governor's office in Topeka, Kan., on the 25th day of July, 1910, and established the following grades of grain to be known as Kansas Grades, to be in effect on and after the 1st day of August, 1910.

J. G. Maxwell,  
Thomas Pace,  
Grain Grading Commission.

### RULE 1.

Wheat which has been subjected to "souring," or to some process equivalent thereto, or containing an objectionable amount of rye, shall not be graded higher than No. 3.

### GENERAL RULE.

All wheat, corn, oats, barley, rye and Kaffir corn that is in a heated condition, souring, or too damp to be safe for warehouse or that is badly bin-burnt, fire-burnt, fire-smoked, or badly damaged, mixed with garlic, onions, or containing live weevil, exceedingly dirty, or where different kind of grain are badly mixed with one another, shall be classed as Sample Grade, and the Inspector shall make notation as to quality and condition, and whenever it is evident that wheat screenings, or other dirt has been mixed into wheat, the same shall not be graded better than "Sample Grade."

### "PLUGGED CARS."

Inspectors shall in no case make the grade of grain above that of the poorest quality found in any lot of grain inspected, where it has evidently been "plugged" or otherwise improperly loaded for the purpose of deception.

### REASONS FOR GRADING.

All inspectors shall make their reasons for grading below No. 3 fully known by notation on their reports. The weight alone shall not determine the grade.

### THE WORD "NEW."

The word "New" shall be inserted in each certificate of inspection of newly harvested wheat until September 1 of each year.

### REINSPECTIONS.

All orders for reinspections MUST be in the office within the first 48 hours following the original inspection, and in no case will grain be reinspected after a lapse of 3 days from date of the original inspection.

### KANSAS HARD WINTER WHEAT.

No. 1 Hard.—Shall be hard winter wheat, sound, dry, plump and well cleaned, and shall weigh not less than sixty-one pounds to the bushel.

No. 2 Hard.—Shall be sound, dry, clean, hard winter wheat, and shall weigh not less than fifty-nine pounds to the bushel.

No. 3 Hard.—Shall be hard winter wheat, sound, dry, may be some bleached but not

clean or plump enough for No. 2, and shall weigh not less than fifty-six pounds to the bushel.

No. 4 Hard.—Shall be hard winter wheat, tough, sprouted, or from any cause so badly damaged as to render it unfit for No. 3 Hard.

### KANSAS TURKEY WHEAT.

Hard winter wheat of the long berry, dark amber colored type of the Turkey varieties, shall be classed as No. 1 Kansas Turkey Hard Wheat; No. 2 Kansas Turkey Hard Wheat; No. 3 Kansas Turkey Hard Wheat; No. 4 Kansas Turkey Hard Wheat, and inspection certificates issued accordingly; and the other specifications for each of these grades shall be the same as for Kansas Hard Winter Wheat of the same grade.

### RED WINTER WHEAT.

No. 1 Red.—Shall be bright, sound, plump, dry and not weigh less than sixty pounds to the bushel.

No. 2 Red.—Shall be sound, dry and clean and not to contain more than 5 per cent of Hard Winter or White Winter wheat and weigh not less than fifty-nine pounds to the bushel.

No. 3 Red.—Shall be sound, not clean or plump enough for No. 2, shall contain not more than 5 per cent of Hard Winter or White Winter Wheat and weigh not less than fifty-six pounds to the bushel.

No. 4 Red.—May be damp, musty, or skin burned and contain not more than 10 per cent of Hard Winter or White Winter wheat, must be cool and weigh not less than fifty pounds to the bushel.

### WHITE WINTER WHEAT.

No. 1 White Winter.—To be bright, sound, dry, plump and well cleaned White Winter Wheat, and weigh not less than fifty-eight pounds to the bushel.

No. 2 White Winter Wheat.—To be sound, dry, clean White Winter Wheat and weigh not less than fifty-six pounds to the bushel and may contain not more than 8 per cent of Red Winter Wheat.

No. 3 White Winter.—Shall include all varieties of White Winter Wheat. It may contain 5 per cent of damaged grains (not bin burned); 10 per cent Red Winter Wheat and weigh not less than fifty-three pounds to the bushel.

No. 4 White Winter.—Shall include all varieties of White Winter Wheat, damp, musty or dirty and not more than 10 per cent of Red Winter Wheat and weigh not less than fifty pounds to the bushel.

### NORTHERN HARD SPRING WHEAT.

No. 1 Northern Hard Spring.—Must be northern grown spring wheat, sound, dry



# KANSAS FARMER

## EDITORIAL



### SKILLED LABOR ON THE FARM.

The shortage of farm help continues. Thousands of boys and girls are attending our agricultural colleges and there qualifying themselves as experts in agriculture, horticulture, stock breeding and dairying, but they do not help to solve the problem. Indeed they only aggravate it as each one who has finished this course becomes, in a short time, a proprietor who is seeking for more help. They study the business and scientific sides of farming in order that they may succeed in their chosen profession under modern conditions. Their ability and training makes of them self confident business men who can and do succeed in independent work. If financial circumstances prevent their engaging in business on their own account they are available as experts or superintendents or partners and not as hired men. Their real worth is much too great to admit of their serving as mere employes for any considerable time and the general problem is not solved, through their class.

The agricultural field is the largest in the world and the demands for farm products greater than they have ever been. There are yet millions of acres that have never been touched by the plow and the real capacity of the soil now under cultivation has hardly been touched.

With the rapid increase of population the demands upon the food supply are already pressing and the cry of the farmer is for more help.

The field of endeavor that is afforded in agriculture is a rich one. Richer than that afforded in most of the other professions and its possibilities are almost limitless. The young men and young women who are preparing themselves in agriculture and domestic economy will never have cause to regret their choice but they will not be available in solving the help problem on the farm. The Agricultural colleges are doing a greater work for mankind in this sphere than was ever done and they will be called upon for more in the future but their students will not and should not become hired men or women as a permanent vocation. They are needed as captains and not as privates.

With the increasing price of farm products and the continued scarcity of farm help coupled with the very general awakening of the city population to the advantages of farm life there may come a change in compensation that will help to solve this problem but it can never do more than help.

The real solution seems to lie in the farmer himself. A reduction in the area under cultivation, better methods applied to these smaller fields; more land in grass and more cattle to consume this grass; making the farm attractive to the farm boy by making it pay him; the building of silos and the modernizing of farm homes will make it practicable to conduct the farm at as great a profit and with less of outside help and more of home satisfaction. We have been farming by the mille; we should farm by the acre.

Prof. D. H. Otis, Assistant Dean of the Wisconsin Agricultural College, is another Kansas boy and graduate of K. S. A. C. who has more than made good. During a recent visit to the "home folks," Prof. Otis said in effect: "I am glad to see the rapid growth that has recently been made by the Kansas Farmer. I read it every week with interest and profit. Not only has it gained in advertising prestige but it has become very strong editorially. I consider the Kansas Farmer one of the best live stock and agricultural papers published in the United States today."

Under arrangements recently concluded by the Post Office department packages can now be sent by mail to the principal countries of Europe and Asia at the rate of 12 cents per pound. These packages may travel at this rate for distances of 10,000 miles and yet our domestic rate remains at 16 cents per pound though the package may only be sent to the next town. What is the answer?

With which is combined FARMER'S ADVOCATE, established 1877.  
 Published Weekly at 625 Jackson St., Topeka, Kan., by the Kansas Farmer Company.  
 ALBERT T. REID, President. J. R. MULVANE, Treasurer. S. H. PITCHER, Secretary.  
 Edited by T. A. BORMAN and I. D. GRAHAM.  
 CHICAGO OFFICE—First National Bank Bldg., Geo. W. Herbert, Manager.  
 NEW YORK OFFICE—41 Park Row, Wallace C. Richardson, Inc., Manager.  
 Entered at the Topeka, Kansas, postoffice as second class matter.

**SUBSCRIPTION PRICE**—\$1.00 per year; \$1.50 for two years; \$2.00 for three years. Special clubbing rates furnished upon application.

**ADVERTISING RATES**—25 cents per agate line, 14 lines to the inch. 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, and we will make good to any paid-up subscriber, any loss he may suffer, through 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 "I read your advertisement in KANSAS FARMER." We do not, however, undertake to settle, or be responsible for the debts of bankrupts, or for petty or trifling disputes between a subscriber and an advertiser, although we extend our good offices to that end.

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

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

### ANOTHER VIEW.

A writer in a daily paper comes at the situation from a different viewpoint. He says:

"We used to eat jerky hung on a pole outside the shack but now fancy dried beef is put up in glassware. Once we ate crackers from a box or barrel—now we need a biscuit put up in paraffine papers. Once we ate pies made from home dried apples—now it is steam dried fruit that makes the filling. Once we ate oat meal from a barrel—now it is put up in nifty packages with a lot of printed dope and chromos on the outside. We used to eat mush and milk—now we eat a predigested preparation warranted to cure anything from stomach to liver complaint. But we pay for the new order of things which we think we must have—and then holler about high prices. If we stop to think of it we ourselves are largely to blame for the extravagances that have come upon us but how shall we cure the evil?"

A department of industrial journalism has been created in the Kansas State Agricultural College with the avowed purpose of supplying to the people of the state news concerning the work and discoveries of that great institution which they can not now get except by attending its classes or receiving its bulletins. This is in reality a publicity department but for an unique purpose. It will be in charge of an experienced newspaper man who first came to Lakin, Kearney Co., in 1871 with his parents and has been a student of Kansas farm conditions ever since. Mr. Dillon has had a newspaper experience of about 22 years.

Sometimes a lazy man can get lots of work out of his boys but these boys will sure leave the farm when the chance comes.

We buy our farm only once but if we practice grain farming alone we sell a little of it each year.

### WAITING FOR SUCCESS.

Success comes to him who waits, but what is success and how should one wait? Perhaps the best definition of success that has yet been given is this: "Worthily using the powers that have been given us." This does not mean making the most money or gaining the greatest fame, but it does mean doing the very best that can be done under the circumstances in which we are placed. A man may attain great riches and in so doing use his powers, but not worthily. He may attain great fame and use his powers, but not wisely nor well. The really successful man uses his ability for worthy purposes and in a worthy manner. While waiting for success it is not understood that one must sit down and put forth no effort. Waiting here means striving constantly for the end in view and biding one's time. Constant and persistent effort put forth in a worthy manner and coupled with patience for the results will bring success.

Good fences not only make good neighbors but they make good money. They save time, temper and trouble. They may cost a little more at first but they are much cheaper in the end.

The government experts estimate that about 10,000,000 depositors may take advantage of the new postal savings banks law and this involves a large amount of preparation before the law can be put in force. It is stated that it will be necessary for each postoffice handling the depositors' money to use two ledgers and this means approximately 100,000 of these records. Probably 4,000 bookkeepers will be ultimately employed on the new work. It is also thought that it will be necessary to establish a central office for the computation of interest and the keeping of general records. All of this will probably mean the sending of ten million pass books twice a year through the mails.

### HOW ABOUT YOUR AUTOMOBILE.

What kind of automobile do you use and has it proved satisfactory in every way? Do you use it as the source of power for any purpose other than carrying passengers? What is the cost of upkeep, for gasoline, tires, etc., by the month and by the year. Is it profitable to keep an automobile instead of a driving team? Do you use your car for carrying produce to market, and, if so, is any special equipment necessary? There are thousands of machines now in use on Kansas farms and many other farmers are interested in them. A year's advance subscription to the Kansas Farmer will be given for the best letter on this subject that is received at this office within 30 days. Send photographs if you can.

THE KANSAS FARMER CO.

### TAKE CARE OF THE MACHINERY.

More machinery is wasted than worn out. The destructive action of sun and rain upon agricultural implements is much greater in one season than is the natural wear through legitimate use in many. The rains swell the wood work and rust the metal while the sun shrinks and cracks the wood and destroys the paint. One of the heaviest drains upon the farm resources of today comes through this careless handling of farm implements. It is not only a matter of economy to house machinery, it is necessary. Every machine should be examined carefully at the end of its season and put in thorough repair. Missing or weak parts should be supplied and worn bolts replaced. There is more time at the end of the season for such work than at its beginning and then one has the advantage of being able to do these things while they are fresh in mind.

It is a hard proposition to fit up a harvester that has stood out in the weather all winter after the wheat heads have begun to turn. A few hot, dry days will make a world of difference in the condition of the wheat and every harvester should be ready to hitch onto and start to work on the minute. To secure such results three things are necessary: Care in putting the machine in order after the season instead of before it; housing every implement and machine on the farm so that they will be protected from the weather, and paint.

All woodwork should be painted at least once a year and all metal parts protected by grease or heavy oil. Thin paint will do excellently and is preferred by many but this requires some labor in removal in the spring and is perhaps no more efficient. Mineral oils or animal fats are best for metal surfaces as these do not dry like vegetable oils, though the latter must be used in mixing paints for woodwork. House and paint every tool and your income will be greater because your expenses will be less.

Again the crops are saved. Reports from all over the State say that the rains came just in time to save the corn and hay. Probably they did. They generally do and this suggests the thought that there ought to be some way of curbing the work of the crop killers. Their irresponsible statements made in sensation loving newspapers do incalculable harm to Kansas.

Amhurst College, than which there is perhaps no better known theological school in America, has recently introduced a course in agriculture for the benefit of its preacher-students. This step has been taken on the theory that the rural church is declining in its influence and that this decline is due in no small degree to the training of the preachers, or their lack of it. It is urged that the preacher in charge of a rural or suburban church can be vastly more efficient if he has been trained so that his sympathies shall be with the daily lives of the members of his congregation. More than this. If the minister is thoroughly trained in agriculture he can become a leader in the agricultural advancement of his community as he must be in the moral and religious life.

### WIRE NETTING FOR VINES.

One of the KANSAS FARMER readers states that he has used poultry wire netting as a support for lima beans and for both garden and sweet peas but finds that the latter do not seem to do well on it. This statement is modified, however, by the statement that when the rows of sweet peas are planted so as to extend north and south but little trouble is had. When the rows extend east and west the vines seem to suffer from the heat absorbed by the wires. We had the same experience but found that the trouble came from the direct rays of the sun striking the roots and the ground near them. After mulching we had no trouble or when growing a row of vegetables along the south side that will shade the sweet peas.

# Wheat As The Kansas Miller Wants It

L. A. FITZ, Milling Industry Expert

The Kansas farmer desires to raise a wheat that will not only give a good yield per acre, but also sell readily upon the market and bring top price. To find such ready sale, it must meet the millers' requirements. We have outlived the erroneous idea that "just any kind of wheat will do as it will all make flour," and have come to look for quality in both wheat and flour.

What, then, are some of these requirements? With the possible exception of a few mills in the southern and southeastern portions of this state, the first requirement might be summed up as follows: It should be a good hard red winter wheat of the "Turkey type" free from any mixture, especially of soft wheat.

But, you say, "Do they not make good flour from soft as well as from hard wheat?" Certainly they do, but these two classes of wheat handle very differently in the mill and must also be treated differently in preparing them for grinding. Consequently, if these two kinds are mixed together before reaching the miller, he cannot get best results from either. This condition of affairs obtains in many of the southern and southeastern counties where both hard and soft wheats are being raised. Should such wheat be shipped direct to a terminal market, it would grade "Mixed Wheat" and sell at considerable discount in price when so graded.

There is still an added argument against mixing hard and soft wheats or the growing of such mixture, and this comes up under the next requirement—quality.

What constitutes quality in this hard wheat? The average Kansas

miller caters to and supplies trade which demands what they call strength in flour. This so-called "strength" depends upon the quality and quantity of gluten in the flour, the quality being of relatively greater importance than the quantity. As near as one can define it, "strength" in flour is the ability to take up and to retain water, and to produce a large, well-shaped loaf with fine, even texture and uniform crust. The ability to do this implies also that the flour is practically free from branny specks and is sound. To the above qualities in the finished loaf we have only to add good flavor and color and the result is an ideal product.

Because certain properties in wheat are more or less closely associated with characteristic physical appearance, we are able, by critical examination of a sample, to estimate its ability to give certain results. Describing it broadly, a hard red winter wheat for producing a flour of desirable strength and quality should be of clear, hard, dark red color, as free as possible from the softer "yellow-berry," or starchy kernels.

Samples of wheat that are lacking a little in plumpness, and consequently of slightly lower test weight, usually produce a stronger flour than samples of the same class that are especially plump and well-filled. However, this brings up another requirement; viz., the yield of flour, or the wheat required per barrel of flour. Since flour is the most valuable of mill products, the question of whether

a wheat will give 70 per cent or 75 per cent of its weight as flour is very important.

To say that it requires two pounds more of a certain wheat to make a barrel of flour, seems at first thought a very small matter, but with a 1,000 barrel mill this means 2,000 pounds, or 33½ bushels, more wheat to be ground each day to make the same amount of flour. Of course, with the lower yield of flour you have a higher yield of bran and shorts, but if flour brings the miller approximately \$2.65 per hundredweight, while feed sells at about 95c, it makes a decided difference in the profit whether the 2,000 pounds of wheat is all made into feed or about 72.5 per cent is made into flour.

Besides good quality, another requirement of good milling wheat is that it be in good condition. It must be free from all mustiness or other bad odors, and should be sound and dry. If wheat contains more than a normal amount of moisture, or feels damp and clammy, various kinds of damage, such as molding, sprouting, or heating, may result when a large bulk is placed in a bin. Many a good lot of wheat has been seriously injured for milling purposes by lack of proper care in handling after it ripened in the field. Allowing the wheat to stand in the shock exposed to alternate rain and sun results in the loss of that natural bright color, or bloom, the lowering of the test weight per bushel, and finally in sprouting and molding. Wheat so damaged will

not make a good sound flour. The market grade and commercial value are also lower.

Much of this difficulty in regard to condition can be obviated by properly stacking the wheat and allowing it to go through the "sweat" before threshing. Millers are practically unanimous in preferring wheat that has been so handled.

Much more might be said along these lines, but too many details are often confusing. To sum it up briefly, I would say:

1. Get good pure-bred seed of the variety best suited to your locality. With the probable exception of the eastern and southeastern counties, this should be a hard red winter wheat of the "Turkey type," preferably Kharkof or Turkey.

2. Grow only this one variety, keep it pure, and encourage your neighbors to do the same thing. Growing two or more varieties practically always results in getting them mixed in the handling.

3. By proper rotation and other good farming methods, keep your land in such condition that it will produce good quality and quantity.

4. Take good care of your crop after it matures in the field. Don't let it stand until dead ripe before cutting, or leave it exposed after cutting in un-capped shocks bleaching, swelling, and sprouting until it deteriorates in value enough to lose two or more grades. Headed grain must not be cut too green and it should be well stacked. If your wheat is threshed before going through the sweat, be careful about putting it in large bulk in bins or it may heat enough to damage it seriously.

## ALFALFA AND SOIL FERTILITY

By DR. J. T. WILLARD

BEFORE SHAWNEE ALFALFA CLUB.

I feel a certain embarrassment in coming before this club because of realizing that about everything that can be said concerning alfalfa has been presented before you. For the most part I can only hope to give the old facts possibly put together differently.

The elements of fertility present in a soil are derived from rocks or from the air, the soil consisting of finely divided rock substances mixed with more or less of the residues of plants and animals. Of the dozen or so chemical elements present in appreciable quantities in plants and essential to their growth only three or four need give us any concern because of possible lack of them. Of these nitrogen has come from the air almost if not entirely, while potassium, phosphorus and calcium exist in compounds originating from the rocks disintegrated in the formation of the soil. It is not the present purpose to discuss in detail the processes of soil formation. In a broad way, however, we should recognize the relation of the soil to these elements in respect to its permanent usefulness.

The nitrogen of soils has reached it in part through the agency of electric discharge. Every stroke of lightning results in the combination of a portion of the nitrogen and oxygen of which the atmosphere consists. The oxides of nitrogen thus produced are washed into the soil by rain and there form soluble nitrogen compounds the quantity of which produced per annum is by no means insignificant. Another way in which the free nitrogen of the atmosphere is brought into combination is through the agency of microscopic organisms. Soil that is bare of visible vegetable growth may be gaining in its nitrogen content because of the presence of invisible life. These organisms by bringing into combination the free nitrogen of the air add somewhat to the nitrogen of the soil. Certain species of bacteria have developed a mode of life in which they grow upon the roots of certain kinds of plants in a semi-parasitic way, obtaining a part of their sustenance from the juice of the host plant but at the same time absorbing nitrogen from the air which fills the pores of the soil in which the host plant is growing. At a later stage these bacteria cease to grow, pass into a different state and their nitrogenous substance is appropriated by the plant upon which they grew. Bac-

teria grow in this manner upon all kinds of leguminous plants, and upon a few species of other orders. This is by far the most important means by which atmospheric nitrogen is added to the soil. Through countless centuries of time the wild leguminous plants with the aid of their bacterial guests have been storing up nitrogen in the soil which we are now exploiting.

It will be seen that independently of any other source the farmer by means of alfalfa or other similar plants is able to renew and increase the amount of nitrogen in his fields. The introduction of alfalfa to Kansas agriculture and its general adoption throughout the state has been recognized by agricultural chemists as the salvation of farming in Kansas. Though red clover may be grown successfully in the eastern part of the state it is not available in the central and western parts. Alfalfa was first sown at the Kansas State Agricultural College in 1875 and from that date to the present the college authorities have been advocating its use. Professor Shelton at that time referred to it as "The most promising of all the forage plants that we have thus far grown."

There is, however, a widespread and deeply seated erroneous view in respect to the relation of alfalfa to soil fertility. Many farmers have the idea that permanent fertility may be maintained simply by growing clover, alfalfa, etc., to a certain extent, supposing that in some way they are general fertilizers. I wish to emphasize the fact that of the four important elements named, the potassium, phosphorus and calcium of the alfalfa crop comes entirely from the soil in which it grows, the nitrogen only being drawn from the air. It is true that compounds containing carbon obtained from the air are added to the soil by means of the roots, stubble, etc., of the crop and that this is of great importance to the well being of the soil in various ways into which I shall not enter at this time. But the fact remains that in respect to potassium, phosphorus and calcium the production of alfalfa hay and its sale from the farm necessarily causes a great diminution in the supply of these essential elements, and the larger the crops of alfalfa the more

rapidly are these elements removed.

The problem of the relation of alfalfa to soil fertility resolves itself into a consideration of the sufficiency of the supply of calcium, potassium and phosphorus. Calcium is probably present in ample amount in most parts of the state, although we have observed acid soils from certain localities, and, for the successful production of alfalfa there, an application of calcium compounds in the form of lime or powdered limestone would probably be necessary or at least advantageous. The Chemistry Department of the Experiment Station has

be continued with as much speed as funds will permit. I have with me the results thus far obtained upon a number of these soils, results that have not yet been published. The analyses are not finished in all of these cases as yet. Those thus far completed are very suggestive.

The percentage of the essential elements available in a soil is always extremely small. Soils with seven-hundredths of one per cent of nitrogen are usually deficient but even with two or three times that quantity may fail to give good results. Those with twelve hundredths of one per cent of potassium are usually deficient in that element, and two-hundredths of one per cent of phosphorus may be taken as the minimum amount if not an actual deficiency. It will be seen that these are extremely small percentages and a realization of this will show how difficult it is to make deductions from the results of a chemical analysis concerning the probable crop-producing power of a soil. If a soil is comparatively well supplied with these elements, as shown by analysis, we may safely conclude that it will be a productive one, other things being favorable. If the percentages of the elements present fall to or below the minimum figures given above the evidence would be strongly unfavorable but for the great mass of soils which would exhibit medium figures it would be unsafe to make any positive statements concerning crop-producing power. The only way that the capacity of such soils can be ascertained is by means of test crops and by crops to which fertilizers furnishing a single element or known combinations of elements have been applied. Into the details of such tests we cannot enter now.



DR. J. T. WILLARD

begun a systematic investigation of the chemical composition of the soils of this state. We have been making use of the soil survey, in so far as it has been made, by the Bureau of Soils, United States Department of Agriculture. In choosing localities from which samples are taken we not only utilize the classification into soil types made by the Bureau, but we are also taking into account the difference in geological origin, for this purpose using the geological map prepared by the Geological Survey of the University of Kansas. Samples have been taken from a number of different counties and the work will

Study of the results of analysis of the Kansas soils referred to shows that some of them are already deficient in nitrogen, though others are still fairly well supplied. At any rate by the use of alfalfa this element may be restored wherever it is lacking and the nitrogen-supply of our soils need cause us no concern if a rational system of farming is followed.

In respect to potassium the number of results available is smaller but they indicate that Kansas soils are well supplied with this element, the lowest percentage in this list being eight-tenths of one per cent. In most

(Continued on page 10.)

# THE FARM



### Is Canada Better?

EDITOR KANSAS FARMER:—In response to an article in KANSAS FARMER of June 28, entitled "Is Canada Better," would say in my opinion Canada is not better than this part of Kansas. I have just returned from a short trip and claim most emphatically as a general farming country this is away ahead the best. Undoubtedly they can and do raise lots of wheat and other grains in Canada, when the weather is seasonable, and so can we in suitable districts. But they have dry spells, cold and frosty nights at times, and on account of the short season, cut their grain with their overcoats on. I saw last year's grain stubble along the railroad on the first and second of June of this year, and it was as clean and bright as if just cut. They had also thrashed quite a lot of ricks and sown their wheat, and it was coming up, some of it nicely. To cap the climax it began to snow during the night, and snowed all the morning. When I reached Calgary they were shovelling the snow off of the depot platform into wheelbarrows. They had about six inches of wet snow for moisture, and this was badly needed. I spent the preceding day in Lethbridge, where it blew about as hard as it could and not have a cyclone. Everything was dead dry, as they had not had a rain since July, 1909, and not much snow during the winter. Because of lack of water, they acted as if they were afraid of sprinkling the streets. It was too dry to break sod with such an expensive outfit as an engine gang plows, when I passed from Moose Jaw to Lethbridge. From Moose Jaw westward I thought I saw lots of poor land, some of it covered over with rocks as if sown, and the same soil was underlaid with a clay subsoil. In many places the lakes were so low that some were dry, and the alkali was so thickly deposited where the water had receded that it looked like snow. When between the Rocky Mountains and the Selkirks, I visited the head waters of the Columbia river, and took a 100 mile trip on that stream to near its source in eastern British Columbia. Naturally, I talked farmer topics to the people. I found that hay was \$25 a ton and shipped in. The lumber camps shipped in all of their grain as well. I inquired why the farmers did not raise some grain and hay to sell, and the answer was that they were too lazy, but the real truth of the matter is that it is an exception to find a farm where they can raise more than enough for the farmer's own use. Now this may look strange to you, but it is a fact, and applies also to fruit, poultry and dogs. Fancy having to keep a fire in the hen house with the thermometer so low that half of your precious poultry is frozen. They can't compete successfully with our more temperate climate. Still in some districts they have good cattle, which they claim to winter very cheaply and sell fat in the spring off the range. They also have some horses, but it takes acres to raise them.

Most of their buildings, both business and residence, are substantially built, with basements underneath and fitted with furnaces, etc. Calgary is a fine city and modern in every way, with packing houses and abundance of water and fuel. They have here and in British Columbia some fine large horses for heavy draying work.

With regard to those irrigation regions, would say that those who want to, who like to, or who are obliged to irrigate have my full permission. The smell of sege brush still lingers in my nostrils, like a dyspeptic nightmare. If one wants to irrigate a nice garden patch or more, why not do it here? Control your own water system without the job of pulling out to those irrigation districts. My wanderlust is waning, and I'll try to be content. If the younger generation get discontented, let them have their fling. They may gain some experience and experience once bought is worth twice that which is taught.—Ed. A. Lord, Kingman, Kan.

### Is the Agricultural Department Harmful?

A correspondent writes that he believes that any institution or department of government that circulates the statement that the plant food content of the soil is inexhaustible or that we need not return to the soil the equivalent of the plant food that we sell from it, is doing untold harm to the farming community.

This writer evidently refers to the United States department of agriculture, but he has gotten his wires crossed. The statement which the writer had in mind was to the effect that the elements of soil fertility in this country are practically inexhaustible, but this did not say or imply that these elements may all be just where they are needed; that they are in available form or that they do not require man's intelligence to secure results from them.

A given soil may be rich in all of the elements of plant food, but its texture may be such that it cannot be cultivated or made to produce crops because of a lack of humus. Man supplies this lack by the addition of barnyard manure. Another soil may show all necessary elements when subjected to chemical analysis, but some of them may not be in soluble form, and man's intelligence is needed to correct this condition.

It is not always the case that poor or worn out soil is lacking in the elements of plant food so much as the fact that they are lacking in available plant food. There is a difference.

Naturally, the farmer wants big crops, but just as naturally, he does not always remember that big crops are the result of a heavy consumption of food just as a big calf is. His time honored methods of farming help to restore this loss, though not completely without special effort. When he plows his land he releases and makes available more plant food through the action of water and air. When he spreads barnyard manure he adds somewhat to the supply of plant food, but more to the condition of the soil, which renders it available. When he uses commercial fertilizers he stimulates plant growth for the immediate crop, though he may not affect the future condition of the soil.

Evidently there was nothing in the statement referred to which should cause any uneasiness as to the ability or methods of the Department of Agriculture.

### Preparing for Alfalfa.

Editor Kansas Farmer: Please tell me through your valuable paper what is the best way to prepare alfalfa ground for fall seeding. The field has been partly in oats and partly in millet, but will all be cleaned up by August 1. The soil is a little gravelly, but is good and rich and fairly free from weeds. It was plowed deep last spring.—W. J. Vliets, Shawnee Co.

Disc the ground thoroughly at once and if this does not secure a very fine surface soil go over it with a harrow. Then sow about the middle of August as nearly preceding a rain as you can.

The alfalfa plant is a very vigorous grower after it is once well started, but it is very delicate when young. For this reason, too much care is not likely to be expended in the preparation of the seedbed. The fact that this land was plowed deeply in the spring is in its favor as an alfalfa seedbed. Deep plowing insures a reservoir for holding moisture, but the land must have time to settle after plowing and before seeding. If the subsurface is well settled and the surface put in fine tilth and made free from weeds, there ought to be no trouble about getting a good stand, provided the seed is good. Seeding may be done at any time up to the middle of September, but the earlier seeding enables the plant to secure such a development as to be practically free from winter killing and to make a full crop next year.

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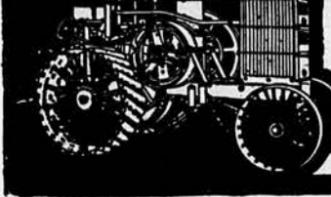
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Editor Kansas Farmer: I am having a serious time in finding alfalfa to sow this fall. I enclose a note from Professor Rose of the State Agricultural College, which says: "I enclose a record of mechanical analysis of your samples of alfalfa seed. They both contain seed of Russian thistle and for that reason are undesirable. It would pay you to use a better grade of seed." Four samples of alfalfa seed showed the same trouble, and of the fifth sample only 65 per cent would germinate. What do you think about advocating a pure seed law? We are going to seed Kansas down to alfalfa and it will cost us thousands, and it may be millions of dollars. The first bill passed by our next Legislature should be a pure seed bill so stringent that no man would take chances in violating it. Two of my samples of alfalfa seed were extra, being 99.3 per cent and 98.5 per cent good, sound, pure alfalfa seed, but each sample carries thousands of Russian thistle seed per bushel. I shall ask Professor TenEyck in a few days for his opinion about a pure seed law. Professor Rose stated in a recent letter that such a law is badly needed, and that it is now almost impossible to get alfalfa seed that does not contain the seed of noxious weeds. I have read what has been said in the Kansas Farmer so far on this subject, and say, well and good, but should we not go further and advocate and insist upon a pure seed law?—E. E. Hazen, Tile Brook Farm, Hiawatha, Kan.

Kansas is a great place for making laws and it has sometimes seemed that we give more attention to the making of laws than we do to their observance. Unquestionably, however, it will still continue to be necessary to make more laws as our civilization advances and our conditions change. There was an attempt some time ago to pass a pure seed law at about the time when the pure food law and the pure feedstuffs law was passed, but this seems to have been pigeon-holed. The letter from Mr. Hazen is quoted as a sample of the many received at this office from different sections of the state about the same subject. Russian thistle is bad enough as an adulterant of alfalfa seed, but possibly dodder is worse. Even some of the highest class seedsmen find that their alfalfa seed have these impurities. There ought to be some protection afforded the farmer against them. Alfalfa has done more for the agriculture of the state than any other single plant, and its work is only just begun. The product of the alfalfa fields of Kansas is now an immense asset, while the value which is added to the soil each year by the growing of this plant has never been estimated. We should like the opinion of our readers as to the desirability of attempting to secure the passage of a pure seed law such as is suggested by Mr. Hazen.

Editor Kansas Farmer: I sowed a small patch of alfalfa late and it is now from six to eight inches high. Please give me advice as to how soon I should cut the first growth so I may be more sure of getting a good start.—B. H. Mein, Farlington, Kan.

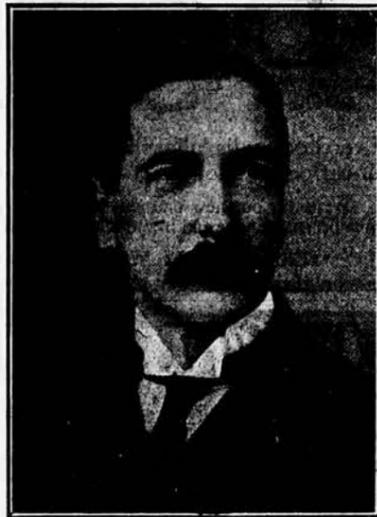
The length of stem does not have much to do with the determination of the proper time for cutting an alfalfa crop. There are several objects to be sought in the cutting of the first crop of spring-sown alfalfa. Perhaps the most important is to so handle the crop as not to injure the future usefulness of the plant. Then there is the saving of the hay and the killing of the weeds. In this section it has not been found to be the best practice to sow alfalfa in the spring, because of the rank growth of weeds and because of the danger of letting the hot sun on to the tender roots after the first crop is cut. Any alfalfa crop should be cut when it is about one-fourth in bloom, regardless of its height. The time should not be extended materially, as the stems will become woody and have a tendency to shed their leaves. If cut before this time the plant is too immature to make good hay and the sunshine will damage the roots. Where practicable, it would be best to cut on a day when the sunshine is not too strong and rake off as soon as cured. If the weather conditions are adverse it is better to cut the crop and get it off the ground even though the hay from the first crop be entirely lost. As the leaves are the important food element of the plant, the best practice is such as will preserve them on the hay and at a time when they have their highest feed value. This is found to be about the

(Continued from page 1.)

The fifth advantage which I would mention has already been implied. The small college is the best place for the inferior half of an average class. More of them will be drawn into an interest in real scholarship than will be thus rescued at a university. The backward students must be dealt with one by one. In most cases they have been ill-trained or badly taught. Their backwardness is an accident. They are not beyond redemption and recovery, but they need a good friend whose interest in them is more than perfunctory. Such personal attention cannot be easily given when a freshman class numbers hundreds, but it is of great importance.

The hundreds of courses offered by a university seem tempting, but there is really very little difference in the methods employed or the usual courses taught at such an institution or in the college. A university aims to provide for the needs of a wide variety of students. Its real business is to cater to the needs of graduate students, men and women who have taken their bachelor's degree and are ready for specialization or professional training. It conducts college courses, but only for the sake of piling up numbers, a legislature's favorite test of success. The great library, the splendid collections, the varied, finely equipped laboratories amount to no more for the average student than the working equipment of Washburn or Baker or Ottawa. A young student has a limited capacity and can make use of only a few advantages. The university's unique resources are really for the older, more matured student, who has a fixed and specific purpose. Such a student cannot find, as a rule, ample advantages in a small college; he belongs at the university.

Kansas has a good right to take honest pride in the record that the graduates of her educational institutions are making. They are second



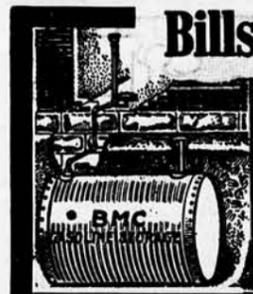
PRES. FRANK SANDERS, Washburn College, Topeka.

to none, wherever they go. The achievements of the past are worthily paralleled by those of the present. Kansas has many colleges, probably too many. Probably under the standardizing progress now being rigidly applied to all institutions of higher learning some of the weaker colleges, whose only excuse for continuance is denominational pride will die. But enough will stay and flourish to make permanent the existing situation. More and more the university will bend its energies to work of a graduate character. In that case, there will develop in Kansas about ten colleges of real strength yet of reasonable size. Without drawing on the funds of the state, they will train its boys and girls for serviceableness and leadership. This product will be better even than fields of corn and acres of wheat and alfalfa. So long as there are enough available youth of fine ideals and sturdy character and thorough cultivation, so long will Kansas retain her supremacy among enlightened and progressive commonwealths.

time when the plant is about one-fourth in bloom.

Salting the cows is most important, especially when they are on green grass. About an ounce per day is required by each cow and this is better given regularly and in small quantities than only occasionally and in large lots.

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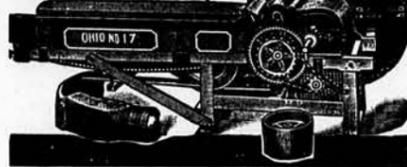
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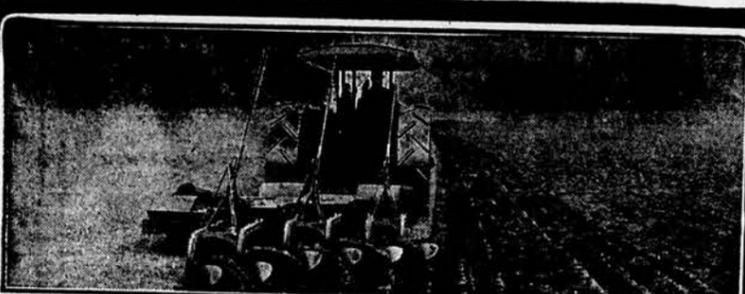
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Remember that horses are an expense whether they are working or not—the present cost of corn, oats, and hay is a big item. Good hired men to care for and drive the horses are hard to get and must be paid good wages. You can stop this expense and increase your profits by using an

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### Strong Beef Demand in Sight.

During the last two years there has been a very decided increase in the value of meats in the market centers and in the local butcher shops. Within the last ten months this increase has been phenomenal. Incident to this remarkable appreciation in values of food products a wave of protest swept over the country that in some sections became a perfect hysteria, resulting in the ill-advised and futile "meat boycott." As a result of this popular outcry against high prices of food products investigations were inaugurated by many mayors of cities, judges of courts, and by state and national authority. In the public discussion of this question the "beef trust," the "farmer trust," the tariff and the over-production of gold were given as the causes of these high prices. The chief cause, however, was generally overlooked, viz.: The continued high price of grain and the consequent scarcity of fat stock. The number of cattle in the United States has been steadily decreasing for several years, and to those in a position to know this fact, the shortage in cattle is appreciable. According to the report of James Wilson, Secretary of Agriculture, we had 2,186,000 fewer cattle Jan. 1, 1909, than we had Jan. 1, 1907, while our population has rapidly increased. In 1940 the proportion of cattle to population in the United States was such that we had .88 of an animal to each person, .81 in 1860, .79 in 1880 and .69 in 1900. At present it is quite probable that this ratio has fallen to .50 to each inhabitant, owing to the rapid decrease in our cattle caused very largely by the breaking up of the large cattle ranches of the west. If this ratio of decrease should continue for a few decades the United States may cease to be a beef exporting nation. The earliest obtainable data of our exports of beef products are for the five years, from 1851 to 1855, during which we exported an average of 32,000,000 lbs. annually. This export trade increased rapidly and reached its climax in 1906, when we sent abroad 733,000,000 lbs. Since then there has been a rapid decline in this trade, our total exports in 1909 being only 410,000,000 lbs., a loss of at least 40 per cent from the total of 1906. A corresponding decrease was shown also in other meat products than beef.

This constant decrease of cattle and rapid increase of population certainly presages a continued strong demand for beef at remunerative prices, and assuredly affords a bright outlook for men who are breeding good cattle.—R. G. Groves.

### High Prices Make Demand for Breeding Stock.

The beef cattle situation at present is one which may justly demand the attention of all concerned. The present shortage of fat cattle is of course due to the fact that very few cattle were put on feed last fall, which, in turn is due: 1st. To the high prices which corn and other foodstuffs commanded during the past fall. 2d. To cattle in the country during the past few months, writes Prof. E. A. Trowbridge of the Missouri University.

The problem of the beef supply for our nation is a serious one and demands serious consideration. We are approaching the permanent condition of affairs which must be the outcome of maximum population of our states; that is to say, we are gradually growing towards and developing a system of intensive farming. We are in the transition stage at present and the length of time which we will be in that state is dependent largely upon our prosperity. Such a condition of affairs is now found in the old countries of continental Europe and the United Kingdom, and if we judge the future by the past we must expect our country to approach that condition.

Our feeding cattle from which fat cattle have been made during the past have been supplied from the

ranges and from the farms of middle west. Present prices of feeding cattle will unquestionably lead to more intensive breeding operation on the farms and on the ranges. With the constantly increasing population of our country it is imperative that we use only that class of cattle which can most profitably utilize the feed which we have to give them. In other words, we must improve our breed stock. This end has always been accomplished in one way, namely, the use of better sires.

With this problem facing us, the prospective future for the improvement of the beef cattle industry looks particularly favorable, since that class of men are to supply the improving influence to our cattle. With the tending of breeding operation on a ranch, the breeders of Hereford cattle ought to feel particularly encouraged. These cattle have made a reputation as range cattle which may lead one to believe that their future in that direction is bright. The reputation of the Hereford steer has been built up, according to the ranchman upon his vigorous constitution and his heavy coat of flesh which serves as a protection and as a supply reservoir during the rough periods of weather. As a feeder his constitution and his inherent hardness are his strong points of argument. It has been said that hereford cattle would make high class carcasses after a comparatively short feeding period, hence with the increasing price of foodstuffs, this has made them particularly valuable.

With the problem of supplying beef cattle to our nation and an ever increasing population the pure bred cattle industry ought to look promising under the present condition.

### Vaccine Treatment for Fistula and Pollevil.

The school of veterinary medicine at K. S. A. C. is now prepared to offer its services in the cure of fistula and pollevil. The college will make vaccine for the veterinarians of the state who have cases that will not heal. On account of the great difference in the fistula and pollevil it is impossible to use a standard vaccine for all cases and it is necessary to make special vaccine of certain strength for each case.

In order for the veterinarian to get this vaccine it will be necessary for him to send a tube of the pus from the infected part to the veterinary department. Here it will be investigated microscopically, the strength determined for the vaccine and inside of forty-eight hours the vaccine will be prepared and sent to the veterinarian. The technique involved makes it impossible to prepare the vaccine except in well equipped laboratories and by men skilled in the work. As it is the general policy of the Agricultural College to extend its usefulness all over the state, the vaccine will be furnished at actual cost of preparation.

Owners of horses will welcome this vaccine as it will put an end to the loss of service of valuable horses because of fistula and pollevil. Such work would be possible on human boils and carbuncles but that is beyond the province of the veterinary school.—L. B. Nickel.

Have a mare that is 7 years old and weighs 1,300 pounds. She is a very fine mare, but has a cough that is dry and harsh. It seems to be down on her lungs. She eats well and we are working her all the time. She has been troubled since February of this year.—C. S. Franklin, Russell Springs, Kan.

Ans.—Get a quart of sweet equine cough syrup and give 3 tablespoonsful back on the tongue with a dose syringe three times a day. Give a tablespoonful and then let her swallow that before giving the other, each time, as she will slobber out some of it and waste it if you give it all at once. Give her a run on grass and report again when this medicine is gone.

# DAIRY



### Some Silo Suggestions.

BY J. C. KENDALL, PROFESSOR OF DAIRY-ING, K. S. A. C.

In a stave silo that is in good condition, that is, when the staves are sound and the hoops tight, there are three places where air is liable to enter and spoil the silage, the doors, where the staves rest on the foundation, and on top.

Generally the loss of silage next to the doors in new silos is very slight the first season, but after that the damage may be, and often is, quite large unless special care is taken at the time of filling to prevent this waste.

See that the doors fit tight by coming together properly and that the felt or rubber strips against which the doors are to press are in place. If, for any reason, they are gone, replace them. A piece of rubber belting may be used for this purpose. It is found that if tarred or roofing paper be placed on the inside of the doors after they are in place that the paper will be wide enough to extend several inches on each side of the doors and that the silage will press against it and be very effective in sealing up the doors.

Stave silos are subject to shrinkage during hot, dry weather when empty, and to prevent them from blowing down, it is necessary to keep the hoops tight and to loosen them again at filling time. In order to do this, the foundation on which the ends of the staves rest must be smooth and level and extend for a few inches on the inside of the staves. This makes a shoulder over which the silage does not readily settle. The result is an air pocket and spoiled silage for a distance of some ten or twelve inches, often much more than this, above, below, and extending into the silo from the point of contact of the staves with the foundation.

One of the best ways of minimizing this waste is to fill the angle flush with good damp clay just before the green feed is run into the silo. The weight of the silage will press the staves out and the clay against them in such a way as to prevent air from entering at this point and will save many loads of feed.

The above fault of stave silos has led a great many to condemn the cement and stone silos. They have noticed this spoiled silage when they came to the foundation in emptying the silos, and have jumped to the conclusion that the fault was in the material used in the foundation. But below this, if the foundation extends into the ground far enough, where the wall is tight and smooth, the silage will be found good close to the wall.

### FILLING THE SILO.

When filling, a man should be kept in the silo and be instructed to keep the silage piled highest next to the wall and see that it is well tramped next to the staves, as there is where the friction comes in settling. It is not sufficient that the silage be tramped a foot or two from the wall. The most effective compacting is done when the foot is placed close to the staves and receives the weight of the body. This should be continued around the entire wall and be repeated often. When the silo is full the surface should be thoroughly wet down and tramped well in order to exclude as much air as possible. The water will encourage the growth of molds and help to seal up the top. Even this precaution will not prevent considerable waste of silage unless the feeding begins at once. It is sometimes advisable to run through the cutter and on to the top of the silage any refuse material that may be at hand that will pack down tight when wet, as this will have a tendency to save just so much of the good silage that would otherwise be spoiled.

### WHEN TO CUT FEED FOR THE SILO.

Whatever the crop that is to be used for silage, it should not be cut when it is too immature, as it not only results in a decreased yield, but

the silage is not as valuable a feed and there is always danger of the silage becoming too acid, and sometimes in extreme cases assuming a slimy condition. On the other hand, care must be exercised to see that the crop does not become so far advanced that too much of the juices have left the stem or the stalk, otherwise the crop when cut and run into the silo will be so dry that it will not pack close enough to exclude the air and the feed will mold and spoil. There is much danger when using Kafir-corn for silage in allowing the crop to become too far advanced before cutting, as the stalks are inclined to be drier than corn stalks and hence, it is well to cut the Kafir-corn at a little earlier stage of maturity than corn. We plan to cut corn for silage just as the kernels begin to glaze and when the first few leaves near the bottom of the plant begin to whiten. At this time the corn has reached its full development, and has lost but little of its juices and will make good, sweet silage. We hear a great many advocate the wetting of the cut feed as it goes into the silo. If the crop is cut at the right time, that is, crops other than those having hollow stems, there should be no need for an additional amount of moisture, and the silage will be better by not having the surplus water, but in many cases, where the crop has become frost-bitten, or affected by drouth, it should be cut and a sufficient amount of water added to replace the juices that should have been in the plant. At such times adding water is imperative.

Everything should be in readiness for filling the silo at least a month earlier than it is expected that the crop will be ready for cutting. The power and the cutter should be on the ground, the knives sharp, belts and everything in readiness, the doors for the silo overhauled to see that they are in good condition, and, if it is a wooden silo that is inclined to waste the silage, we recommend the putting of one thickness of tarred paper on the inside of the silo wall, running the strips up and down, allowing the edges to lap, as this will be found to improve the keeping qualities of the silo a great deal for one season, and will pay well for the trouble and expense of putting it on. Last year silage corn was ready for the silo four weeks earlier than usual, and those who did not have their silos ready when the drouth came, lost their crop of silage corn. The silo may also be used to save a crop of corn intended for grain if struck by drouth before it has had time to mature.

### What the Silo Did.

The Ohio Experiment Station instituted a careful test to determine the economy and efficiency of ensilage. They took two cows; to one was fed a ration made of 58 lbs. of ensilage made of corn and soy beans, 6.8 lbs. of mixed hay, 2 lbs. of bran and 2 lbs. of oil meal.

To the other cow was fed a ration made of 6.4 lbs. of hay, 4.7 lbs. of corn stover, 6 lbs. of bran, 5 lbs. of corn meal, and 2.5 lbs. of oil meal. The two rations are chemically of about the same value but the cows found a marked difference.

The cow fed on the ensilage ration produced 8.9 pounds of butter from one dollar's worth of feed, while the other cow produced but 5.28 pounds of butter from the same cost of feed. Now, the above shows 3.62 pounds of butter more, a value of \$1.08, for the ensilage ration over the other ration. The cows were selected as being closely equal at the beginning in their producing capacity.

No feed produces better milk or more of it than good June pasture. Next to this is good soiling crops and third in the list is ensilage. As the first and second of these are available for only short seasons, the silo is worthy of consideration as the best year round substitute.

## The Louden Way



One man with a Louden Litter Carrier on Louden overhead steel track system can clean the barns in half the time that two men would take without it. That's Louden economy. On every up-to-date farm—your farm—the Louden Litter Carrier and steel track system will earn its cost many times a year. Track can be bracketed to barn wall—out one door—in at other, and in this way no switch is needed. Manure loaded direct on wagon or spreader—its full fertilizing value thus saved.

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**Alfalfa and Soil Fertility.**  
(Continued from page 4)  
cases over one per cent and in some cases over two per cent is present. In respect to phosphorus, however, the condition is not so favorable. One of the soils shows only two-hundredths of one per cent and several have only about three-hundredths; others are well supplied for the present, possessing as much as five or six-hundredths of one per cent.

It appears then that the element that is destined to give the farmer most serious concern is phosphorus. Indeed this is the greatest problem of soil fertility over a large portion of the earth. Potassium occurs in considerable quantity in certain rocks and when driven to the necessity the human race can save itself by extracting this element from them. Phosphorus, however, is far more limited in natural supply and its conservation is the most vital necessity of agriculture. The relation of alfalfa to this problem is the phase here under consideration. At the college we have made analyses of the ash of alfalfa grown on an upland farm and in this case it was found that four pounds of phosphorus, which is two tons of the hay removed fourteen or three times as much as would be removed by a crop of corn, oats or barley. It will thus be seen that while alfalfa may be used as a restorer of nitrogen to the soil it must continuously deplete the phosphorus as long as the crop is sold from the farm.

There is only one conservative system of agriculture, speaking broadly. This consists in feeding upon the farm the crops raised thereon and restoring to the land the phosphorus, potassium and nitrogen that would otherwise be shipped away. It is of course impossible to feed everything produced on the farm; vegetables, fruit and grain must necessarily be transported to distant points to a greater or less extent, but this practice should be minimized and should be offset as far as possible by utilizing the by-products of milling and other industries. When crops are fed to animals and the animals sold there is a certain loss of nitrogen and mineral substances in the bodies of the animals. However, in the case of a fattening ox 96 per cent of the oxygen and nearly 98 per cent of the mineral matter of the food is voided in the excrements. With swine 85 per cent of the nitrogen and 96 per cent of the mineral matter is thus voided. It will be seen that with these animals if the manure produced is carefully preserved and restored to the land the diminution of soil fertility would be very slight if the crops produced on the land were fed at home. With milch cows if the milk

is sold about one-fourth of the nitrogen and one-tenth of the mineral matter of the feed would be sold with it, but if butter-fat be separated from the milk and the skim-milk fed on the farm the necessary loss of fertility would be very small.

Nitrogen, phosphorus and potassium when purchased in the various compounds of which commercial fertilizers consist are very expensive elements. If purchased in commercial fertilizers the phosphorus of four tons of alfalfa hay would cost \$1.10; the potassium from \$5 to \$12; the nitrogen in the crop, most of which it has obtained free from the air, would cost over \$40 if bought in the form of Chili saltpeter, ammonium salts or packing house waste. To emphasize still further the value of farm manures I will in conclusion present the following table which is based upon the observations and analyses of a number of different chemists.

Fertilizer constituents avoided by one animal per annum, and value, taking nitrogen at 20c, phosphorus at 5c, potassium at 6c.

	Nitrogen	Phosphorus	Potassium	Value
<b>Horse—</b>				
Am't in lbs.	125.20	20.90	35.90	
Value	\$25.04	\$1.07	\$2.15	\$28.26
<b>Cow—</b>				
Am't in lbs.	170.60	11.4	89.30	
Value	\$34.12	\$.91	\$5.36	\$40.49
<b>Sheep—</b>				
Am't in lbs.	8.40	2.40	11.80	
Value	\$1.68	\$.19	\$.71	\$2.58
<b>Pig—</b>				
Am't in lbs.	11.9	4.60	9.9c	
Value	\$.238	\$.237	\$.59	\$3.34

The values given above for nitrogen, phosphorus and potassium are those adopted by the chemists of a number of the experiment stations of the eastern states based upon the market prices on the Atlantic seaboard of the raw materials used in compounding chemical fertilizers. The actual money value of the manure which on many Kansas farms is wholly neglected is startling in amount.

Especially when soft feed is fed, a broad, smooth board will be found very convenient in feeding chickens either young or old. It is so readily cleaned that all things considered it will be found much more convenient than the dirty ground, it is inviting disease to your flock.

We have always found it a good plan to let hens set once or twice during a season, as by this means they are given a rest from the strain of laying. You will by this treatment no doubt get the same number of eggs in a season as if you shut them up and endeavor to stop them from sitting.

# POULTRY



Chickens are early risers and will thrive best if an early feed is provided for them.

Confinement in a warm, dry house is much preferred to freedom on a stormy or wet day.

Whole grain fed constantly to young chicks will sooner or later give them leg weakness.

Milk, sweet or sour is good for all kinds of poultry. They can hardly have too much of it.

Never give your chicks sloppy food but make it so that it will crumble when thrown on the feed board.

Fowls half fed are never in good condition for market or laying eggs, and hence rarely prove profitable.

A knot hole in the side of a house where the hens roost is more dangerous than if you left a window open.

As an appetizer and an exercise scatter millet seed in litter on the pen floor and let the youngsters hustle for it.

Now is a good time to spade up the runs. The fowls will like the worms and the ground will be much healthier.

Too much soft food induces disease. Feed a light, warm, bulky mash in the early morning and feed grain the middle of the afternoon and at night.

It is not good policy to allow the young and old stock to run together, and the cockerels should be separated from the pullets.

Do not attempt to raise three hundred chicks when your accommodations are only suitable for one hundred. Crowding poultry will breed many diseases.

Now that the hatching season is over, all the male birds should be taken away from the hens. Your chances for fresher eggs and more of them will be increased.

When the cockerels are three or four months old they should be kept separate from the pullets. Both lots will thrive better and grow faster for the separation.

Unless free from lice, no flock will thrive as it ought, and the owner should help the chicks rid themselves of these pests by providing proper dust baths and occasionally dusting them himself with insect powder.

If you have raised a good crop of oats this year, feed some of them to the hens. It is the best kind of food for laying hens. They won't get too fat on oats. You don't need to have the oats threshed for the hens, they will do the threshing themselves and it will be good exercise for them.

Remember that county and state fair time will soon be here and that it is time you were getting your birds into the proper condition to show. A little handling and trimming now will help a great deal when show time comes. There's only about a month's time between now and the State Fair at Topeka.

There is but little advantage in feeding ground food, as the fowls need no aid in pulverizing their grain, the gizzard doing that well; but there are some foods that can easily and cheaply be procured in the ground condition, such as bran and middlings, which makes excellent food for all kinds of poultry. Bran is very beneficial, as it contains more mineral matter than some ground foods and is as cheap as anything that can be given. Fowls, however, prefer whole grains, but they like a variety.

If you are obliged to keep your poultry in confined quarters, you will need

to be more careful in their management than if they had free range. Try and be systematic and regular in feeding them. Provide a place for them to scratch in by using chaff, leaves or straw into which throw the grain. Feed the mbut little corn and grain. Feed them but little corn and steamed alfalfa and cooked vegetables with an occasional small quantity of meat will make them feel happy. Be careful and not overfeed, for it is far worse than not quite enough.

A drastic law is now on the statute books against stale eggs, and grocerymen are obliged to candle all eggs before they buy them. It would be a good plan for farmers to examine all doubtful eggs before taking them to market. Sometimes a nestful of eggs is found which may have been sat upon for some days, such should be examined carefully, before offering them for sale. To candle the eggs, you take a candle or lamp into a dark place and hold the egg before. If perfectly clean the egg is fresh. If there are any dark spots in the egg, it is stale. A solution of salt and water is also used to test eggs. A ten per cent solution is about right. If the egg is fresh it will sink immediately to the bottom. If stale it will swim on top of the water.

People who buy thoroughbred eggs for hatching the first time, are much surprised when the young chicks come, to find that they are not all of a uniform color. Two or three parties have written us this season asking about this matter. One of them had bought White Leghorn eggs and some dark chicks appeared. Another bought R. I. Red eggs and many colored chicks came. Both writers thought they had been swindled by having common eggs thrust upon them. But the fact is that there is no uniformity in color in hardly any of the pure bred chicks. White fowls such as White P. Rocks, White Wyandottes and White Leghorns throw chicks that are sometimes quite dark in color but eventually they get pure white. Black fowls on the other hand throw chicks that are quite light in color but when they get their first feathers they are perfectly black. The older a breed is established the more liability of uniformity in the color of the progeny. But the newer varieties such as R. I. Reds, Columbian Wyandottes, etc., throw chicks of a decidedly off color but are none the less from pure bred stock.

## Directory of Seed Wheat Growers

List of Kansas Farmers now Having Kansas Grown Seed Wheat for Sale

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Harper	George Covey	Ferguson	Kharkof	500
Harper	T. B. Marsh	Anthony	Kharkof	600
Jefferson	Ben Schneider	Nortonville	Kharkof	800
Kiowa	J. A. Lovette	Mullinville	Kharkof	1,200
Osage	Chas. W. Shuster	Quenemo	Ghirka, Fulse, Zim	350
Pawnee	C. D. Hyatt	Nekoma	Kharkof	500
Pawnee	W. P. Warner	Larned	Kharkof	500
Pratt	G. C. Blakely	Preston	Kharkof	1,500
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For 13 years I have bred White Rocks, the best of all purpose fowls, and have some fine specimens of the breed. I sell eggs at a reasonable price, \$2.00 per 15, or \$4.00 per 45, and I prepay expressage to any point in the United States.

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One of the best poultry ranches in the state. Two acres adjoining Washburn college Campus, 9 room house, cellar, cistern, well water, barn. Best poultry house in county. Fruit and ornamental trees. Price \$4,000, half on time if desired. No trades.  
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**\$225** Buy the ELBURN H-2—the Best Piano in the world at the price, \$6 monthly pays for it.

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# HOME CIRCLE



One good mother is worth a hundred schoolmasters.

Borax is said to keep starch from sticking. Add about a tablespoon to a gallon of starch.

When mixing flour and water for gravies or thickenings much labor can be saved by letting the water stand over the flour awhile before stirring it. The lumps seem to dissolve themselves.

An easy way to keep silver bright is to immerse it in sour milk and let it stand for twenty minutes or longer. Then remove it and wash it in hot water and polish as quickly as possible. Use pieces of soft flannel for polishing.

Iron frying pans, etc., should be as clean on the outside as on the inside. This can be accomplished by scouring them inside and out with sapollo, each time after using. I can set my frying pans on the white table cloth without fear of soiling the cloth. Granite and enameled cooking ware may also be kept clean and will never discolor if scoured with sapollo each time after using.

The chamois glove is said to be the solution to the glove problem for the woman who likes to work out of doors and yet likes to take care of her hands. They don't get as stiff as kid ones and when soiled are easily washed out with soap and lukewarm water. Don't rinse out the soap, as it keeps them soft.

### Two Ways of Looking at It.

"Johnny," said his mother, "isn't it rather extravagant to eat both butter and jam on your bread at the same time?"

"No, mother, I think it's economical," answered Johnny, "for the same piece of bread does for both."

### All the Same to Him.

Nine-year-old Richard has been longingly watching the "Boys' Club" of his neighborhood, but the other boys have considered him too young. One day he entered the house triumphantly with, "Oh, mother! I've joined the Boys' Club, and I've been abbreviated." "Been what?" "Oh, I don't mean abbreviated, I mean assassinated. I've been assassinated!"—The Delineator.

### For Chigger Bites.

An early and thorough application of kerosene oil to the ankles and arms constitutes the best remedy for the suffering caused by chigger bites that we have yet discovered and we have tried many. A very popular and efficient remedy for chigger bites is composed of equal parts of lard and sulphur which has proved to be a specific with some people.

### Poison Ivy.

Poison ivy may be easily recognized by its having three leaves on one stem instead of five as on the Virginia creeper, which otherwise looks like it. The poisonous principle is active at all seasons of the year but more so when the plant is in leaf. Some people are not affected by it, some only by contact, while others are poisoned by merely being in its vicinity. Various remedies are recommended and all are more or less efficient though not for the same individual. The most common of these perhaps is sugar of lead or sugar of lead in spirits of nitre. Dilute ammonia is good in some cases. Copperas water, the juice of nightshade leaves and camphorated sweet oil are all recommended, though the latter is more of a preventive than a cure. The latest remedy suggested is peroxide of hydrogen, which will effect a cure on most persons by a single application. As this substance is so extremely valuable for cuts and wounds it always pays to have a bottle of it in the house to prevent blood poisoning. It is then always available for poisoning by the ivy.

### To Sweeten Sour Bread.

If in warm weather, a batch of bread dough gives out a sour odor when you begin to knead it for the the last rising, do not be discouraged. It is surprising how few articles of food are really and irretrievably ruined. Mix and even teaspoonful of saleratus in four tablespoonsful of hot water; let it get lukewarm and work it into the dough faithfully and long. The alkali will put the acid down and out.

### 8700—A Dainty Model for a Dressing or House Sack.

A negligee or dressing sacque that is a little different from the ordinary design is always a welcome change. China silks, and challis, lawns and dimities are often used for garments of this kind. The design here shown may be finished with bell or bishop sleeve and with turnover collar, or with collarless neck edge. The pat-



tern is cut in 6 sizes, 32, 34, 36, 38, 40 and 42 inches bust measure and requires 2 3/4 yards of 44 inch material for the 36 inch size.

A pattern of this illustration mailed to any address on receipt of 10c in silver or stamps.



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From 150,000 bushels of choicest Turkey wheat, I have selected 2000 for seed. This is the dark, hard, shoepeg Turkey wheat, it is plump and dry, well cleaned and every grain will grow.

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THOMAS PAGE, Miller.  
Topeka, Kansas.

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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.

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It will be the most profitable move you ever made. It will open your eyes to the opportunities you have missed. It will prove that you have made costly mistakes in the past by buying your lumber one place, hardware somewhere else, etc.; that you have been paying hold-up prices and getting stung on quality. It's time to stop. In the future, buy where you can get the best and most for your money—that's economy and good business sense. You ship your stock and grain direct to big markets to get the right price. If that's the way to sell, it's certainly the way to buy. We sell direct to you at wholesale prices, and save you the middleman's profit—that's one reason why the Hafer Way is the best way for you. We have everything you need to build that house, barn, corncrib, or shed right here in stock. Will ship it all together and give you the quality that can't be equaled anywhere. You have tried the expensive, unsatisfactory way; now try the Hafer Way. You will make the right start if you'll

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# Summer Days on the Farm

Edgar G. Meinzer, of the Kansas State Agricultural College

It is in the broiling heat of mid summer, when the hot sun beats down relentlessly on the pavement that the city dweller, sitting at his desk, wipes the perspiration from his forehead and lets his mind go back with longing to his boyhood days down on the old farm, under the big shade trees, amid the strawberries and watermelons, and the fragrant odor of the new mown hay. He longs for the rest and quiet, the freedom and comfort of the farm, in the long days of the "good old summer time."

What greater comfort than to lie at ease in the hammock, under the stately old elms, content to let the great, jarring, noisy world roar on, and to watch the fleecy clouds glide by on the blue skies above, or to rest at evening on the wide, cool porch, and to listen to the drowsy chirping of the crickets. What drink is more refreshing than the cool water, drawn from the farmhouse pump, out under the trees? Here the artificialities of life are cast off, and one may live close to peaceful, refreshing nature. In vain the city cousin seeks in the summer in his town the charms which the old farm alone can offer.

The summer is the fruit and berry season. First come the strawberries, nature's crowning achievement, red, luscious and juicy, hidden away under the bright, green leaves in the strawberry patch. No one can fully appreciate the strawberry, who has not eaten it out in the open, directly from the stem, or when it was still entirely fresh. July and August bring the early apples. These are the days when the small boy and the green apples wage a conflict for the supremacy, and marvelous feats of apple eating are sometimes per-

But the recreations on the farm in summer contribute perhaps the most to making the man at his desk heave a sigh at the memory of other days. The boys seek out the swimming pool, the older persons the creek or river, reputed to be well stocked with fish. What more charming pastime than to while away the long hours of a summer's day, peacefully seated on the bank of a stream, beneath some great old tree, with a bamboo pole in hand, waiting for the cork to be drawn under water, and to feel that vigorous, animated tug, so thrilling to the real fisherman? What more enjoyable occasion than to gather with a merry crowd of picnickers around the table cloth spread out on the grass, watching the preparations for a meal of potato salad, sandwiches, cake, bananas and lemonade? The capacity of the human stomach seems to increase as if by magic, when the fresh air and the charm of the forest stimulate the picnic appetite. But most effective of all in the calling forth of a mood of reverie and sentimentality is the harvest moon, as two young persons ride along behind drowsy old Dobbin, dreaming of the golden future. The automobile has its value, but on a moonlit evening along a country road, it can never produce the poetry and romance to be experienced in a ride in the good old fashioned top buggy, behind a peaceful, meditative horse. God made the country. He meant to have men dwell close to the fields, the forests, and the streams. The noblest thoughts and moods can only be had in close communion with nature.

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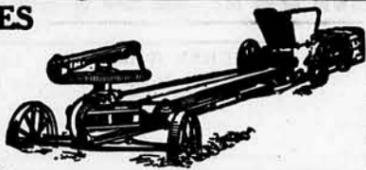
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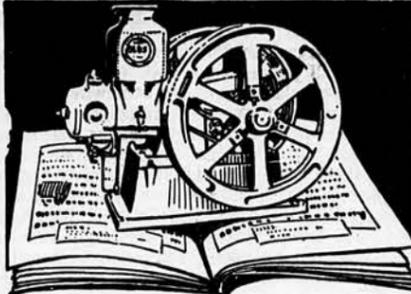
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The barnyard in summer is alive with young life. The worried hen is cautiously leading her fluffy brood along, alert for the vagrant worm or grasshopper. Here some young fledgling is making his first attempt at crowing, there the turkey cock is giving a free performance to show his masculine beauty. The faithful dog is asleep on the back porch, his head between his paws, while out in the pasture the gentle cows are clustered under a clump of trees in a corner, or standing knee deep in the creek.

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to the outdoor world for their inspiration. Wordsworth in the Lake region of England, Scott in the glens of the Highlands, and Bryant in the forests of New England, have each given us in meter the expression of universal human sentiments, felt when out amid the charms of nature. But the two especial poets of the farm and farm life are Whittier and Riley. They interest themselves in the human aspects of country life, rather than in the beauty of the landscape. Whittier writes of the barefoot boy, with his rolled up pantaloons and his cheeks of tan. He, himself, had experienced the joys of boy life on the farm. He knew the delight of discarding shoes and stockings in the summer days, of wading and swimming and of loose and comfortable clothing. He had felt the carefree mood of the barefoot boy, and his feeling of kingship over all of the outdoor creation. To James Whitcomb Riley no less, the memories of free, happy boyhood days on the farm in summer moved him to write his best loved poems.

The city dweller heaves another sigh, expresses one more longing to escape the clanging of the streets, and the restraints of urban life, and then continues with his tasks at his desk in the stuffy little office, far from the field and forest with their summer charms.

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**FOR SALE—TWELVE ROOM HOUSE ON** 100 ft. lot, two blocks from State Normal. Good home. Suitable for rooming or boarding house if desired. Bargain, part cash, balance at 6 per cent. **A. S. Newman, Emporia, Kan.**

**POCKET KNIVES.**  
**A HIGH GRADE BRASS LINED POC-**ket knife will be sent free to any present subscriber who will send us two new six 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, Kan.**, and we will immediately send the knife to you, all charges prepaid.

**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.**

**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.**

**MISSOULA, MONTANA: AN ACTIVE,** wide-awake city of 20,250; ideal climate, pure water. Elevation and soil unexcelled for fruit, grains and vegetables. Montana leads the U. S. in production of wheat, oats, rye, hay and potatoes. Write for booklet **K. Chamber of Commerce, Missoula, Montana.**

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

**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.**

**TALKS ON MANURES.**  
 By **Joseph Harris, M. S.** A series of familiar and practical talks between the author and the deacon, the doctor and other neighbors, on the whole subject of manures and fertilizers; including a chapter especially written for it by **Sir John Bennett Lawes** of Rothamsted, England, 366 pages, 5x7 inches. Regular price... \$1.50  
 Send \$3.00 for renewal of your own subscription five years, and the book will be sent to you absolutely free, postage prepaid.  
**KANSAS FARMER, Topeka, Kansas.**

**HORSES AND MULES.**  
**FOR SALE—3 STANDARD BRED COLTS,** 2-year-old bay stud colt, yearling sorrel mare, brown sucking colt; all from a highly bred mare. An accident that I have these colts. Price \$400 for 3. **F. C. Monroe, Fredonia, Kan.**

**POULTRY.**  
**KELLERSTRASS SINGLE COMB CRY-**stal White Orpingtons; also Cook strain of White Orpingtons. Stock and eggs for sale. **Mrs. R. A. Jenne, Eureka, Kan.**

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

**A Sure Safe Hitch Strap**  
 A knot that holds is hard to tie, and once tied, is even more difficult to untie. The Safety Hitch-strap (see illustration) requires no knot; is easily fastened to post, tree, weight, or anything; will neither slip up nor down, and holds your horse securely. Can be loosened instantly. Saves time, temper and trouble. The Strap is made of web, stronger and lighter than leather, and will out-wear any other kind. You need one. Do you want it?  
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**KANSAS FARMER, TOPEKA, KANSAS.**



# Kansas Land

**EASTERN KANSAS FARM BARGAIN.**  
120 acres 3 1/2 miles from Ocala City, Kansas. 60 acres under cultivation. 5 acres good orchard, balance native grass meadow and pasture. 4 room house, good cave, stable for 6 horses, corn crib, hen house, plenty of good soft water on farm, close to school, R. F. D. and phone. Price if sold soon \$45,000 per acre.  
**J. C. RAFF & COMPANY, OSAGE CITY, KANSAS.**

**IF YOU WANT the RIGHT LAND**  
at the right price in the right place, from the right man.  
Write right now to  
**H. D. HUGHES, McDONALD, KAN.**

**Real Estate Dealers, Attention!**  
If you want to know how and where to buy advertising space in a big farm paper and a daily paper covering the richest agricultural sections of the United States for less than a half cent a line per thousand circulation, write  
**Roy O. Housel, 625 1-2 Jackson St., Topeka, Kan.**

**WICHITA COUNTY**  
160 acres choice agricultural land only 10 miles from Marienthal and 17 miles from Leoti. All smooth and tillable black soil, free from sand or stones. Sheet water at 100 feet. Good neighbors and a bargain at \$1,200. Further particulars on application.  
**ALBERT E. KING, McPHERSON, KAN**

**A GOOD STOCK FARM.**  
440 acres, 100 in cultivation. 220 acres in pasture and meadow. 35 acres fenced hog tight, 20 acres in alfalfa, land in cultivation is all fine black soil, second bottom, and is very productive, watered by five good wells, small orchard and some timber. Large 8-room house, barn for 12 horses, cattle barn, hog house, two large chicken houses, cave and cellar, located 5 miles from one railroad town, 7 miles from another, in Greenwood Co., Kansas. Price \$14,500. R. F. D. and telephone.  
**THE NELSON REAL ESTATE & INV. CO., 137 N. Main St., Wichita, Kansas.**

## EXCEPTIONALLY FINE FARM FOR SALE

Northeastern Kansas farm of 300 acres. Has been well farmed for 20 years. The rich soil has been improved by judicious crop rotation and the liberal use of manure. Well watered, fine walnut timber, finest bluegrass pastures, alfalfa, timothy and clover meadows; finest wheat and corn land. Well fenced. Have cattle and horse barn for a large number of live stock. Large silo, water tanks, granary and fine mill, with other improvements to make it as nearly a perfectly improved farm as money and thought can do. It is a model stock or grain farm, ready for use. It is a most excellent opportunity to get as fine a farm as lies outdoors, and in a country where crop failure is unknown. Lying only 40 miles west of St. Joseph, Mo., and adjoining a thriving railroad town. It is at the doors of the best markets in the West.  
For full information, price and terms, address A-130, care Kansas Farmer, Topeka, Kan.

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

**FOR SALE**—200 acres, all bottom land, no overflow, all tillable. See improvements \$65 per acre. Other bargains, **J. C. Wise, Baldwin, Kan.**

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

**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, Lindborg, Kansas.**

**IF YOU WANT** to buy Trege County corn, wheat and alfalfa land at \$15 to \$18 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 restored Percheron stallion. Write for particulars. 80 acres first-class alfalfa land in famous Arbostery Valley at a great bargain.  
**WM. MILLER, Meade, Kansas.**

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

**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, Kan.**

**JEFFERSON AND ATCHISON COUNTIES.**  
Improved farms that are rapidly increasing in value that produce big crops of all staples, for \$60 an acre and up, according to location and improvements. Also some good exchange propositions. Write for full information.  
**George J. M. Roger, Valley Falls, Kan.**

**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.**

**79 ACRES, 3 1/2 miles Kelly.** Catholic settlement; 5 acres alfalfa, 12 timothy and clover, 15 pasture, balance cultivated; good house, barn; hog and cattle sheds; two wells, windmill; fine orchard, all kinds fruit, \$6,500. New list free. Trading a specialty. Write me what you want.  
**O. J. HOLLAND, Goffs, Kan.**

**NORTHEASTERN KAN., \$45 PER ACRE.**  
If you want to buy a good home, or make a paying investment, where corn, clover, bluegrass and staples grow to perfection, write or call on me. Can sell you improved farms for \$45 to \$65 an acre.  
**ALVA HARDEN, Ozawie, 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.**

**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.**

**NEMAH COUNTY, KAN., BARGAIN.**  
100 a. farm, lying 7 miles S. W. Corning, 90 a. corn land, 2 a. prairie meadow, 2 a. fine orchard. Land not rough, stony, nor ditchy. Good 5-roomed house, barn and other outbuildings, extra good water, one mile to school. R. F. D. and phone line. Can be bought on March 1, settlement 1911, at \$60 per a. Good terms. Other propositions.  
**C. E. TINKLIN, Corning, Kan.**

**KANSAS FARM FOR SALE.**  
310 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 1500 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; \$5000 can be carried back on long time.  
**SHARP REALTY COMPANY, Turner Building, Wichita, Kansas.**

**Special For Quick Sale**  
160 a. 4 mi. town and high school, 7-room house, good cellar, everlasting soft water, stable 10 head horses, corn crib, hog house, chicken house, 30 a. pasture, 15 a. clover, bal. cult., \$1200. fruit this season, 1 mi. school, R. F. D. and telephone, good road to town, possession at once. This farm is a money maker and have reduced price for quick sale. Price \$8200, carry \$4000 at 6 per cent. New list of farms for the asking.  
**KNIGHT LAND CO., Moran, Kansas.**

**FARM SNAPS**  
**FARMS FOR SALE**—Large list, correspondence solicited, ask for list. Desirably located. Thos. Darcey, Real Estate, O'feris, Kansas.

**BEST IMPROVED 100, 5 miles out, \$5,700; terms.** L. F. Thompson, Nurwich, Kan.

**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.**

**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.**

**NORTHEASTERN KANSAS FARMS.**  
For sale or exchange natural home of corn, clover, bluegrass and all staples, as well as fat cattle and hogs. Also city property and stocks of merchandise for sale or exchange. Large 16 page list free.  
**COMPTON, THE LAND MAN, Valley Falls, Kansas.**

**FOR HOMESEAKER OR INVESTOR.**  
Kiowa and Calvary Creek Valley, 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, Kas.**

**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 86x40, 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.****

**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. H. Holliday, Baldwin, Kansas.****

**VALLEY LAND \$5.00 PER ACRE.**  
570 acres of black limestone land, 13 miles from Coffeyville, Kan., \$27.50 per acre. 900 acres of mountain land, 200 to 300 acres of best kind of valley land, fee simple title, \$5.00 per acre.  
**ELLIS & MORGAN, Coffeyville, Kansas.**

**FOR SALE**—193 a., 6 mi. Garnett, 3 mi. Haskell on Mo. Pac. R. R., 120 a. valley and stone land in cult., balance rough pasture with limestone rock on 1-3 of it, well fenced and cross fenced; new 6 r. house; splendid barn 32x42; 2 good wells; family orchard. A snap at \$5,500. New list free.  
**Sewell Land Co., Garnett, Kan.**

**FARM BARGAINS.**  
Nice 240 acre farm located 3 mi. from town, good improvements, plenty of good water, price \$65 per acre, owner offers to trade up to half value for western land and will take a loan on the farm or cash for the difference. What have you to offer?  
**MANSFIELD LAND CO., Ottawa, Kan.**

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

**A FINE RANCH ON EASY TERMS.**  
A fine level ranch of 1,380 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 49x32 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 acre 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 \$10 per a.  
160 a., 3 miles from Meade, 5 flowing wells, 65 a. in alfalfa, some timber, fair improvements, in the heart of the artesian valley. Price \$65 per a.  
**HULBERT & BLACK, Meade, Kansas.**

**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.**

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

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

**LOW-PRICE! NORTHEASTERN KANSAS LAND.**  
Produces corn, clover, bluegrass and all staple crops in big yields. We can sell you improved farms here for \$40 to \$50 per acre. Have some good exchanges. Write for full information.  
**The Owl Land Agency, Ozawie, 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.**

**GOOD FARM CLOSE TO TOWN.**  
For short time we offer 134 acres rich, all tillable soil, just at edge of this city, nice five room house, big new bank barn, an ideal location, for \$65 per acre. Only \$1000 cash required. Balance on terms to suit at 6 per cent. This is a snap. Also offer 11 acres at edge of town, fine 5 room cottage, good barn, nice shade. A snap at \$2800.  
**DONAHUE & WALLINGFORD, Mound Valley, Kansas.**

**435 ACRE FARM—DIRT CHEAP.**  
435 acres, 2 to 8 mi. from 5 towns, Linn Co., Kan. Rich soil, small grain, corn and tame grass farm. Improvements worth \$5,000; good repair. All fenced; part hog tight. A genuine bargain for \$27,50 per a. Large list and detailed description free.  
**T. O. V. LAND CO., Coffeyville, Kansas.**

**HERE IS YOUR CHANCE.**  
For a beautiful half section of land, lays just enough rolling to drain nice, 160 a. cultivation, 10 a. tame grass, balance fine pasture and mow land. 3 acres bearing orchard, fine 8-room house and cistern, barn for 12 head, other outbuildings, school 1/4 mile, 4 to town, R. F. D. and phone. Price \$10 acre. Write for big farm list  
**D. M. WATKINS, Moline, Elk Co., Kansas.**

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

**MEADE COUNTY FARM**  
160 a., 7 1/2 mi. Meade in German settlement, fine land, unimproved. Snap at \$3200. 300 other farms Meade county. Co-operative agents wanted. Write us  
**PAYNE & McCARGER, Hutchinson, Kansas.**

**SOUTHEASTERN KANSAS FARMS**  
In any size tracts, on liberal terms. How is this? 80 acres good land, well located, small improvements, \$2,500. Send for free list.  
**THE BOWMAN REALTY CO., Coffeyville, 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 years at 6 per cent.  
**L. F. SCHUMACHER, Owner, Meade, Kansas.**

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

**A GOOD RANCH**  
In Chautauqua Co., Kan., 2046 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.**

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

**FORCED SALE**  
Best located, and one of the best farms in Allen county; 486 acres, 3 miles from Iola, 300 acres under plow, balance in grass. All tillable. Will sell all or divide to suit purchaser. Worth \$85 an acre. Will sell for \$50. Very easy terms. Must sell. Call on or address  
**THE ALLEN COUNTY INVESTMENT CO., Longton, Kansas.**

ANDERSON COUNTY FARMS for sale and exchange, at \$40 per acre and up. Expansion file free to buyers. SIMON LAND CO., Garnett, Kan.

EASTERN KANSAS BARGAINS. 200 all smooth, new impr., \$50. 133 a., fair impr., all smooth, some timber, \$45. 130 a., no impr., owner wants livery stock. W. K. SHAW, Garnett, Kansas.

FRANKLIN COUNTY. Heart of corn, clover and bluegrass belt. Prices lower the farther west. New eight page list free to buyers. Send your name. Princeton Land Co., Princeton, Kan.

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.

IMPROVED Anderson county corn, wheat, oats and alfalfa farms at \$40 to \$60 per acre. Write for our free list. Also good exchange propositions. Rice-Daniel Land Co., Garnett, Kan.

IF YOU want to buy an improved Franklin county farm, for \$40 to \$75 per acre, write to or call on C. W. FEUERBORN, Richmond, Kansas.

ANDERSON COUNTY. Wheat, oats, corn, tame hay and many other crops produced abundantly. Improved farms for \$80 to \$60 per acre. Big investment opportunity. Write for new list, mailed free. GEO. W. ILLER & SON, Garnett, Kan.

CORN, BLUEGRASS AND ALFALFA LANDS In Northeastern Kansas, where crops never fail. Improved farms \$65 per acre and up. Prices rapidly advancing. Now is the time to buy. Write for full information. F. A. LAKE, Oswaie, Kansas.

REAL ESTATE! REAL ESTATE! For free information regarding Jackson, Jefferson and Atchison county lands, also for real estate in Texas, Wyoming and Colorado and western Kansas, call on or address Wm. Harrison, Farmer's State Bank, Whitling, Kan.

NORTHEASTERN KANSAS. The best agricultural section of Kansas. Wheat, corn, alfalfa, tame hay, potatoes and fruit are making our farmers rich. Land \$25 up. Big list to select from. Write for full information. E. L. HORTH, Centralia, Kansas.

220 ACRES, 130 in cultivation, balance meadow and pasture, new 6 room, 1 1/2 story house, 2 barns, granaries, mows, cattle sheds, etc. well water abundant, 2 miles. Agriculture, \$12,000. Will take part good income. Other farms for sale and exchange. New 12 page list free. MICHAEL & GOUNDY, Waverly, Kansas.

SEVERAL good farms to trade for stocks of merchandise and land to exchange for city property. Land in the fertile Gulf Coast of Texas \$75 per acre on payments; fine climate, and farmers get rich in a few years. We go down twice a month. Write me for particulars. Henry G. Parsons, Lawrence, Kan.

JOHNSON COUNTY FARMS. 440 a. and 700 a., about 3 mi. Olathe, upr.; best stock and grain farms in county, \$65 and \$90 a., respectively; liberal terms. 130 a. Lackman, Kan., on strong line, beautiful farm home, bargain. See us for any size farm. JOHN S. FERGUS, Olathe, Kan.

NESS COUNTY ALFALFA FARM. 160 acres, fair improvements, 6 room house, 6 mi. Ness City, 1 mi. school, most all fine first bottom alfalfa land, living water, telephone and R. F. D. lines pass house, 90 acres in cult., 1/4 growing crop aces, all fenced and cross fenced, Inc. \$600. 5 per cent 2 1/2 years vet. To Sept 1 only, come quick. \$3200 buys it this month. J. G. COLLINS, Ness City, Kansas.

A BARGAIN AT \$85.00 PER ACRE. 80 acre farm located in one of the best farming and stock raising sections of Kansas; only 100 miles from Kansas City; 65 a. in cultivation, 15 a. hay and pasture, 5 room house, fine barn 30x35, both in good condition, and several small buildings, 2 good wells and cistern. \$1500 cash, and time on balance to suit. Address Owner, R. F. D. No. 2, Box 34, Westphalia, Kansas.

WANTED, KANSAS WHEAT LAND In exchange for electric light plant in county seat town in Eastern Kansas. E. L. HULL, Okaloosa, Kansas.

20 QUARTERS Cheap land in Western Kan. and Okla. at \$1000 to \$1500 each, near town or on the new R. R. survey. Good quality and title. H. M. DAVIS REALTY CO., Greensburg, Kansas.

HERE YOU ARE 200 acres, 5 miles Williamsburg, new 7-room house, large barn, all necessary out-buildings in good repair, small fruit, 1/2 cultivated, balance could be, \$40 acre. Good terms. Owner old, can't farm it. New list free. SEVERNS & HUTCHISON, Williamsburg, Kan.

Investigate!! Fine bargains in 160 a., at \$8000, 120 a., at \$4200 and 80 a., at \$2200. Other good propositions for sale. Write for free list. J. W. BRONSTON & SON, Garnett, Kansas.

Eastern Kansas 80 acres, well improved, new buildings, every foot tillable, plenty of water and close to school, 5 miles of Richmond for \$60 an acre. Other farms for quick sale. Write the owner, Box 43, Richmond, Franklin county, Kansas

LOOK HERE I offer this week a decided bargain in a section of smooth, raw land, 10 miles north of Brewster, Kan.; fine farms surrounding it, and crops to show what it will produce. This is one of the bargains and will not lay out long. Write for particulars to IKE W. CRUMLY, Brewster, 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.

## WRITE OR CALL UPON US

for information about Eastern Colorado. We have 100,000 acres in the shallow water belt that will make \$100 alfalfa land, can be bought now for \$5 to \$15 per acre.

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 Clancy Land Co., Akron, Colorado.

LIST OF LANDS for sale at \$5 per acre and up, free. \$20-acre homesteads located. Relinquishments for sale. R. A. SHOOK, Akron, Colorado.

\$7 to \$15 PER ACRE on liberal terms. Homestead relinquishments \$100 to \$300 each. Where rainfall is plentiful and prices are rapidly advancing. Write for full information stating what you want. Maher & Hanks, Deer Trail, 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.

SAN LUIS VALLEY. Irrigated lands with perpetual water rights in tracts to suit on easy terms. Prices still far below real value. Produce alfalfa, peas, potatoes, wheat, cats 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 homeseekers and investors. I own a few quarters which I will sell cheap. A. L. KISSINGER, U. S. Commissioner, Yuma, 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 150-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 B 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.

8000 acres choice land at \$1200 per qr., 1 or all, 800 acres imp., good house and fenced, 120 a. broke. Price \$20 per a.; will take \$2000 in trade and carry \$4000 back on farm. We have cheap relinquishments. Write us. 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, 214 Cooper Bldg., Denver, Colorado.

I. L. DARBY THE PIONEER LAND MAN Government and Deeded Lands and Town property, 320-acre Homestead. Snaps in relinquishments. Write for new illustrated folder, mailed free. GROVER, COLORADO.

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

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

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

EASTERN COLORADO — The home of wheat, barley, millet, cane, broom corn, speltz and all staples. Lands are now very cheap, from \$3 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 BARGAINS 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 15 per cent annually on a valuation of \$26,000. 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 \$55 per a. 160 a., improved. Hay, grain and pasture, near school, \$30 per a. 320 a., partly improved, all fenced, rich soil. Splendid snap at \$25 per a. For further description write BUTLER & HINES, Alamosa, Colorado.

SOMETHING FOR NOTHING. For every quarter section purchased from me I will give a Free Warranty Deed to Forty Acres of good land in a new and coming section of our valley. Come and see how I can afford to do it. Write for booklet. No agents. I sell my own lands. C. W. FOSTER, Monte Vista, Colo.

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

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

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

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

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

BUY IRRIGATED FARMS IN COLORADO. All kinds for sale. Just the climate you want. National Irrigation Congress meets in Pueblo September 26. Low rates. Ask for information. R. BRAYTON, Pueblo, Colo.

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

GRAND RIVER VALLEY The famous orchard district of the western slope of Colorado, orchard tracts in any size to suit purchaser at various prices. Bearing orchards often pay \$500 an acre net profit per annum. Write for full information. E. A. LOOMIS, Fruita, Colorado.

NEW YORK LAND. 500 FERTILE, IMPROVED, York state farms, \$10 to \$50 per acre. Write for descriptive booklet. Valley Farm Agency, Owego, N. Y.

WYOMING LANDS 1700 ACRES IMPROVED IRRIGATED land, 80 miles from Laramie, on R. R. Growing hay, oats and alfalfa. 1,000 acres state leased land fenced. Lease assigned to purchaser free. Splendid free range adjoining. Valuable improvements, \$20 per acre. Terms. The Western Irrigated Lands Co., Laramie, Wyoming.

FOR SALE — Stock ranch, 9,500-acre stock ranch on Colorado-Wyoming State line; good hay and grazing land; good buildings and water rights; close to timber; will sell ranch with or without stock; \$5,000 per acre; half cash, balance easy terms. Western Irrigated Lands Co., Laramie, Wyo.

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

FREE — 320-ACRE HOMESTEADS—Millions of acres, fertile lands, valuable information, laws, maps showing how and where to locate set for 25 cents, mailing cost. Western Land Co., K. 404, Cheyenne, Wyo.

30,000 ACRES JUST OPENED. Carey Act lands at Wheatland, Wyoming. Obtain a home now that's sure to produce and double in value before paid for. Plenty of water now on the land. Also selling choicest farm lands in Iowa Colony near Cheyenne, and ranches in this ideal stock country.

Great alfalfa and grain crops grown here every year. Healthiest climate, purest water, good markets. For excursion rates, valuable maps, laws, write HARTUNG LAND COMPANY, Special State Agents, CHEYENNE, WYOMING.

## ARKANSAS LAND

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

ARKANSAS fruit, grain and stock farms at farmers' prices. Timber lands. Sam A. Clark & Company, Dept. C, Fayetteville, Ark.

ARKANSAS—Improved farms, level land, good soil, \$8 to \$15 an acre. Hundreds of bargains. Homeseekers' Guide mailed free. State map 10c. MOORE, Searcy, Ark.

ALFALFA FARM, \$15 PER ACRE. 567 acres, 200 in cultivation, \$67 fine timber, rich bottom land, good for alfalfa. R. F. D., telephone, free stone water, good house and barn. Price \$15 per acre. Many other fine bargains. Write JAMES T. HENDERSON, Newport, Ark.

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.

BIG BARGAIN at Eureka Springs, Ark. Fruit and poultry farm, 26 acres, well improved, good modern 6-room house, water and outbuildings. Going at half value. Write J. E. Crozier, D. D. S., Leslie, Searcy Co., Arkansas.

N. W. ARKANSAS BARGAIN. 98 acres, 2 1/2 miles of R. R. station, 4 roomed house and barn, fine spring in yard, 60 acres bottom land in cult., 38 acres good timber, 1/4 mile to school. Price \$2,500. Write AUSTIN & DRENNEN, Gravette, Ark.

FINE FRUIT FARM FOR SALE. 80 acres, 3 miles from Rogers, the queen city of N. W. Arkansas. 40 acres apple, 10 peaches bearing, 8 timber, balance cult. Good four room house, fine well, dandy out-buildings, and a bargain for \$5000. H. J. Miller Realty Co., Rogers, Arkansas.

## TEXAS LAND

GOOD RANCH. 3,368-acre ranch, improved, \$5 an acre. Robertson Co., 7 miles county seat. Adjoining land couldn't be had for twice our price. Would sell part or all. All fine grass and much first-class farm land. Detailed description and plat free. C. A. BABCOCK, Harper, Kan.

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

OKLAHOMA LAND

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

FOR FREE information about Eastern Oklahoma alfalfa farms, write Atwood & Zenger, 106 N. Second Street, Muskogee, Oklahoma.

EASTERN OKLAHOMA LANDS \$12.50 to \$20 per acre for good Alfalfa Land, titles perfect, easy terms. Further information write Tulsa Real Estate Company, P. O. Box 1016, Tulsa, Okla.

EASTERN OKLAHOMA corn and alfalfa land: abundant rainfall, healthful climate, titles perfect, terms. Write Hunter Land Co., Tulsa, Oklahoma.

CADDO COUNTY FARMS. Best in Oklahoma for homes or investment. Your address on postal card will bring descriptive list and literature. BALDWIN & GIBBS CO., Anadarko, Oklahoma.

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

WASHITA VALLEY LANDS. From \$10 to \$60 per acre offer great opportunities for investment. They are well located near railroads, towns, churches and schools. Write for further information. JOSEPH F. LOCKE LAND & LOAN CO., Wynnewood, Oklahoma.

A 160 ACRE FARM near a town like Thomas, Okla., is a sure thing. Write for particulars. Don't fail to see our land before buying elsewhere. GRANT INVESTMENT COMPANY, Thomas, Oklahoma.

FOR SALE. A well improved bottom farm of 584 acres on Grand River, six miles of railroad town. This is one of the best farms in Oklahoma. No overflow. No trade. Price \$50 per acre. Write. J. T. RAGAN & CO., Vinita, Okla.

INDIAN LANDS FOR SALE. 300 choice farms in N. E. Oklahoma. Low prices and easy terms. Write for map and price list. LEAVITT LAND COMPANY, Vinita, Oklahoma. Agents Wanted.

CORN, OATS, WHEAT and alfalfa and all staple crops grow to perfection here in the garden of Oklahoma. Prices reasonable. Write for list and descriptive literature. C. E. POCHEL, Newkirk, Oklahoma.

EASTERN OKLAHOMA BARGAINS. 60 acres fine level farming land, 75 acres under cultivation, in wheat and oats. Two-room house, good well and barn. Price \$30 per acre. Other good bargains. Write FRED C. GILMORE, Claremore, Oklahoma.

A FEW BARGAINS NEAR WAGONER, OKLAHOMA. 200 acres, 5 miles from town, good new 5-room house and barn 60x80, all tillable. Price \$38 per acre. 40 acres 1/2 mile from Wagoner. All smooth, fine land, every acre tillable. Price \$27.50 per acre. Write W. H. LAWRENCE, The Land Man, Wagoner, Oklahoma.

EASTERN OKLAHOMA. 200 acres, 7 miles from Muskogee, 2 miles of railroad town, all good valley land, living creek water, 20 acres cultivated, balance meadow, all fenced. In white settlement, on main road, close to church and school. Price \$30 per acre. Many other farms improved and unimproved, at \$25 to \$35 per acre. R. B. BEARD & COMPANY, Muskogee, Oklahoma.

CORN FARM. 160 a. 8 miles of good R. R. town, 12 miles of Medford, in consolidated school district, R. F. D., 100 a. in cultivation, balance pasture, large fine orchard, all kinds of small fruit, small house and barn, good water and mill, sub-irrigated land, sandy loam soil, 2 miles of country store, large shade trees, a fine home. Price now \$4500, only \$2000 cash, balance to suit. BATTEN REALTY CO., Medford, Okla.

"Hough Sells The Earth" in Caddo county; fertile, rich, cheap. Send 10 cents in stamps for handsome colored county map of Oklahoma, circulars and list letters answered in German or English. W. R. HOUGH, Apache, Oklahoma.

160 ACRES 160 Fine land, 100 acres in cultivation, 6 1/2 miles from railroad. Price \$4,000. Terms on part. THE FIRST LOAN & MORTGAGE CO., Watonga, Oklahoma.

Another Bargain 160 acres of No. 1 bottom land, all in cultivation and improved. Ten miles from Ponca City and new road now building by the place. For particulars write TRUMBLY & BARRETT, Ponca City, Okla.

NEBRASKA LAND LANDS AND RANCHES FOR SALE 120 acres, one mile from town, all bottom land, no overflow, alfalfa land. Good improvements. Send for photo. W. W. M. SWAN, Haigler, Nebraska.

BEAR RIVER VALLEY IDAHO LANDS

Rich, productive, deeded land on railroad, excellent markets, schools, free range, climate, low prices. Write for descriptive bulletin giving full particulars. B. R. V. Land Company A. St. Montpelier, Ida.

MISSOURI LAND

IMPROVED corn, clover and blue grass farms 40 miles south Kansas City, \$50 to \$75 per acre. Jot M. Wilson & Son., Harrisonville, Missouri.

IF YOU WANT A HOME in the Ozarks, where the water is pure, write for my free list. Low prices. G. W. Feck, Dixon, Missouri.

FREE INFORMATION about S. E. MISSOURI Lands near Piedmont, Mo., \$3 to \$40 per acre. Write McHenry Realty Co., Piedmont, Mo.

OZARK FARMS, some well improved, \$3 to \$30 per acre. Timber lands, \$5 to \$10. Write for price list. McDonald & Son, Richland, Missouri.

IF YOU WANT TO BUY a good farm in southwest Missouri or city property in Springfield, Mo., write A. B. Crawford, Springfield, Missouri.

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

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

5,000 ACRES cheap farm land, tracts to suit; Green County; part improved, balance good timber, good soil and water; \$10 per acre upward; liberal terms; descriptive literature free. Ozark Land Co., 305 1/2 Boonville, Springfield, Missouri.

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

MISSOURI FARMS. For sale or exchange in Morgan county, where corn, clover and blue grass grow to perfection. Prices from \$10 to \$85 per acre, on liberal terms. Write for county map and list, both free. CREWSON & HARRISON, Versailles, Mo.

IN THE OZARKS. Dairy, truck, poultry and fruit lands, \$5 to \$50 accordingly, on terms to suit. I own over 10,000 acres and can give you what you want. Large illustrated folder, list and maps free. P. H. RUCKER, Rolla, Missouri.

40 ACRES \$700. 40 acres 5 miles N. W. of Poplar Bluff, 10 acres in cultivation, balance fair timber, 2-room log house, shed, spring; price \$700. We have the cheapest and best farm land in Missouri. GRATIOT REAL ESTATE & INVESTMENT COMPANY, POPLAR BLUFF, MO.

DID YOU GO TOO FAR? Do you want to have a clover, bluegrass and timothy farm again? If so, write us. We will sell well-improved Johnson county farms for \$40 up. Write for our list, mailed free and postpaid. LEETON LAND COMPANY, Leeton, Missouri.

WEBSTER COUNTY, MO., farm lands, \$20 up. Prices advancing rapidly. Now is the time to buy. Our land list gives prices and descriptions. Free list with map if desired. R. S. PHILLIPS & Co., Marshallfield, Missouri.

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

MISSOURI. The home of corn, clover, bluegrass and fat stock. Lands in the heart of this great state for less than Central or Northeastern Kansas lands. Write for list, sent free upon request. BARTHOLOMEW & SLACK, Calhoun, Missouri.

DO YOU WANT TO SELL YOUR FARM? Write us, we will give you good information. Hoffman's Compiled List Report, 323 Sedgwick Block, Wichita, Kansas.

MISCELLANEOUS FOR SALE and EXCHANGE

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

TO EXCHANGE FOR KANSAS FARM. Suburban grocery stock, will invoice about \$3,000. Will assume some on farm. Residence properties in Kansas City and 20 farms, Kansas and Missouri, ranging from 50 to 400 acres each to exchange. J. E. REED REALTY CO., 628 N. Y. Life, Kansas City, Missouri.

FOR SALE AND EXCHANGE. Kansas and Missouri farms for city property, stocks merchandise, and other farms. Describe what you have; will make you a good trade. List your farms for exchange with us. R. K. Woodward Real Estate & Investment Company, 204 N. Y. Life Bldg., Kansas City, Missouri.

FOR SALE OR EXCHANGE. Alfalfa land in shallow water district of Oklahoma in 40 to 640-acre tracts, \$20 to \$45 per acre. For particulars write C. B. RHODES R. E. & INV. CO., 4400 Hecht Bldg., Kansas City, Missouri.

Improved 160 acres Phillips Co., price \$5,000. Want improved 80 acre farm in northeast Kansas. Well improved 160 farm in Norton Co. Price \$4,000, inc. \$2,000. Want land or income further east. LEWIS & ELDRED, Phillipsburg, 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.

STOCK MERCHANDISE FOR SALE. Good, clean stock merchandise in Northeastern Kansas town. Will invoice about \$10,000. Want land. Eastern Kansas farm preferred. Other snags. Write me your wants. O. C. FAXSON, Meriden, 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, Wakeoney, Kansas.

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.

Hadley Boy 48009 by Hull's Hadley 25344, Wm. Garrett 53037 by Mastedon Chief 53640, Big Hadley 40822 by Hadley Jr. 28383, Blain's Wonder 33717 by Johnson Chief 35774, King Blain 48506 by Blain's Wonder 33717. SOWS AND THEIR SIRE. Sunshine (1285343) by Bell Boy 46145, Midnight (111263) by Champion Chief 52207, Dud's Datsy (111263) by Tib Top Dudy 31681, Long Jane Lady (115927) by Chief Goldust 39244, Standard Lady (111262) by Standard Tecumseh 46144, Royal Beauty (128583) by Chief Goldust 39244, D's Made Right (129715) by Designer 39190, Big Beauty 2d (120156) by Long John 14640, Kansas Queen 4th (323990) by Neb, King 122227, Black Lady (127912) by O. K. Price 42071, Iola Garnett (127913) by Columbia Chief 2d 42528, Miss Garnett (127903) by O. K. Price 42071, Queen Likeness (131100) by Expansion John 49945, Early Alice (127910) by O. K. Price 42071, Kansas Queen 2d (323988) by Neb, King 122227.

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, Kan.; Col. Jas. W. Sparks, Marshall, Mo. Col. H. Hohenstein, Chelsea, Okla.

JERSEY CATTLE

Jerseydale Stock Farm Imported and American Bred Jerseys, Carthage, Mo. PHIL HANNUM, JR., OWNER.

I am offering a yearling bull, ready for service, out of a five-gallon cow bred along the same lines as the cow that won at the World's Fair at a very reasonable price. Write today if you are in need, as I price stock at figures that sell them. Grade Jerseys bought on commission.

JERSEY BULL FOR SALE

Vic's Stockwell \$1762, sired by the \$2,100 Beatrice Stockwell, he by the \$11,500 Stockwell. The dam of Vic's Stockwell is Silverline's Vic by the \$1,500 World's Fair prize winner, Silverline Lad. Dropped Feb. 25, splendid form, and of excellent conformation. Tuberculin tested. Write for extended pedigree and price. JOHNSON & NORDSTROM, or Jesse Johnson, Clay Center, Kan.

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

POLLED DURHAM CATTLE

BELVEDERE X2712-195058 Son of the \$1,500 Grand Victor X1635 150364 heads my herd of Double Standard Polled Durhams. A few extra good, blocky, thick-fleshed young bulls for sale. Inspection invited. Farm adjoins town. D. C. VAN NICE, Richland, Kansas.

PURE BRED SHEEP

SHEEP! SHEEP! SHEEP! SHEEP! 500 pure bred Ramboulett sheep, consisting of 250 3-year-old ewes, 215 yearling and 2-year-old ewes and 35 rams; also 245 lambs. These sheep are extra choice and will be sold in a bunch or in lot to suit purchaser. ESTATE OF J. W. TROUTMAN, J. G. Troutman, Manager, Comiskey, Kan.

MULBERRY GROVE FARM. Herd Boar, Peerless Perfection 2nd, grand champion American Royal. A few choice gilts by Peerless Perf., 2nd, and bred to On the Spot by On and On. A few choice open gilts by Prince Model. J. F. MILLER, St. John, Kansas.

BIG-BIG-TYPE CHALLENGE. G. M. Hull, of Garnett, Kan., will hold his public sale October 26, 1910, of 95 head of the famous Big Type Poland Chinas, sired by five as good boars as there is in the U. S., both in breeding and in individuality, and 15 of great queens representing the royal Big Type families. Write for catalog, it will interest and fascinate every hog man. Auctioneers - Col. C. E. Bean, Garnett, Kan.; Col. James W. Sparks, Marshall, Mo.; Col. H. Hohenstein, Chelsea, Okla.

HORSES AND MULES

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

PERCHERONS REGISTERED.

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

ANGUS CATTLE

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

SHORTHORN CATTLE

10-SCOTCH BULLS-10 from 10 to 14 months old. One roan, 9 reds, sired by show bulls and out of show cows. Must be sold to make room. Priced at \$75 to \$125. These are all good. I make steers out of poor ones. Come at once. They will suit you. COL. ED. GREEN, Florence, Kansas.

REGISTERED SHORTHORNS. 55 head in herd, a few choice cows and heifers for sale. Pure Scotch breeding. Priced reasonable to reduce herd. JOHN W. TREADWAY, Kincaid, Kan.

SHORTHORNS

A few choice heifers for sale, nicely bred and good individuals, priced reasonable. Write or come and see my herd. C. H. WHITE, Burlington, Kansas.

TENNEHOLM SHORTHORNS. Have on hand a few young red bulls ready for service that are out of splendid milking dams and have good beef form. No better breeding could be wished. Can spare a few females. Prices moderate. E. S. MYERS, Chanute, Kansas.

FOR SALE.

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

Center Grove Stock Farm

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

HUMBOLDT NATIONAL STOCK FARM.

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

SHORTHORN BULL FOR SALE. Sired by Lord Mar and out of a Red Knight cow. Also cows and heifers, 75 choice Poland China pigs to select from. S. B. AMCOATS, Clay Center, Kansas.

RED POLLED CATTLE

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

RED POLLED CATTLE. A few choice young bulls for sale; also a few cows and heifers. C. E. FOSTER, Eldorado, Kansas.

BERKSHIRES

STAIRWART DUKE 117874 heads our Berkshires. He formerly headed the Kansas Agricultural herd. His sire was Silvertips Revelation by Revelation. His dam was Hood Farm Duchess 18th 93309. Choice lot of spring pigs for sale. J. M. Nielson, Marysville, Kansas.

HOLSTEIN CATTLE

HOLSTEIN CATTLE

POLAND CHINAS

POLAND CHINAS

ALBA DAIRY 125 HEAD REGISTERED HOLSTEIN-FRIESIANS

LARGEST HERD OF THIS BREED IN IOWA.
Barns Sanitary—Herd Tuberculin Tested Twice Yearly.
At the head of herd King Segis Hengerveld Vale, who is son of the famous King Segis (sire of 3 record-breaking daughters), grandson of Honkerveld De Kol (sire of 100 A. R. O. daughters, 4 above 20 lbs), great grandson of Sadie Vale Concordia, the first 30-lb. cow, A. R. O. COWS FOR SALE. Young and sound, free from disease. Large official milk and butter records; rich breeding; splendid individuality. BULL CALVES FOR SALE from 1 to 6 months old.
J. C. GUTHRIE, SHENANDOAH, IOWA.

SUNFLOWER HERD HOLSTEIN-FRIESIANS

Those desiring a HIGH testing A. R. O. sire to head herd should get prices and descriptions on my KING WALKER service bulls. The three nearest dams on all these bulls average from 25 pounds to 29 pounds butter in 7 days.
F. J. SEARLE,
Oskaloosa, Kansas.

ROCKBROOK HERD

offers bargains in a carload of cows and heifers and a few bulls 8 to 16 months old. All tuberculin tested.
ROCKBROOK FARM,
Station B, Omaha, Nebraska.

DUROC JERSEYS

DUROC JERSEYS

ALFALFA STOCK FARM DUROCS

Over 300 head of spring pigs now on the farm, the sires of which were sired by such boars as Ohio Chief, Billie K., Prince Wonder and from sows equally well bred. Fifty boars have been selected from a bunch of 300 and reserved for breeding purposes. Will quote you prices on single animals or in any sized lots to suit. Address
PEARL H. PAGETT, Beloit, Kansas.

DUROC HERD BOAR FOR SALE

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

SAMUELSON BROS.' DUROCS

Fifty spring boars for sale, the pick of 300 head of spring pigs, sired by 10 different sires, good, growthy fellows; heavy bone, the best of color, good quality. We can suit you in blood lines and quality. Our price right. Come and see or write us. Samuelson Bros., Cleburne, Kan.

FOR SALE!

Tried sows and bred gilts. Bred to Fancy Boy 53187, who is also for sale, a large bone fellow, has a 900 pound frame. A few spring boars. Two fall boars sired by Mo. Wonder King 52903, a 1000 pound boar.
MR. AND MR. HENEY SHRADEB,
Bogue, Kansas.

POLAND CHINAS

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

DUROC SOWS and GILTS

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

200 LARGE TYPE POLAND CHINAS

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

SPRING BOARS AND GILTS

Best of breeding and top quality. Some early spring boars—good, strong, growthy fellows—will be priced right. By such boars as Agra Top Notcher, Paul Jumbo, Bonney K. and I Am a Bonney K.; also gilts of equal breeding quality and size, priced right. Address
W. C. WHITNEY,
Agra, Kan.

POLAND CHINAS WITH SIZE

Headed by Pawnee Look. I have bred pure bred Polands for 20 years and have learned many valuable lessons, and in the future shall breed nothing but the big smooth kind. More hot and less hot air.
F. F. OEBLY,
Oregon, Missouri.

R. & S. FARM

150 Spring Pigs, sired by King of Kant Be Beat No. 38333, and Golden Ruler No. 80555. Write your wants. Fall sale Oct. 29. Bred Sow Sale Feb. 3, 1911.
RINEHART & SON,
Smith Center, Kansas.

WALTER'S BIG SMOOTH POLAND CHINAS

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

BRED SOWS AUGUST FARROW

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

HARTER'S BIG KIND POLAND CHINAS

Headed by Mogul's Monarch 45858 and Capt. Hutch 39058. Over 100 choice pigs to select from. Visitors made welcome. Also Barred Rocks.
J. H. HARTER,
Westmoreland, Kansas.

"DUROCS GROWN IN THE OZARKS"

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

CORRECT TYPE POLAND CHINAS

Headed by Wise's Hadley by Big Hadley. Sows by What's Ex., Kansas Chief, Nemo I.'s Dude, etc. 75 choice pigs to pick from.
BERT G. WISE, Reserve, Kan.

CHOICE DUROC BRED SOWS FOR SALE

Among them my show sow Ellere 70424, safe in pig to Tom Davis for fall litter, also fine lot of spring pigs. Write your wants.
O. A. TILLER,
Pawnee City, Nebraska.

SUNSHINE HERD

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

CROW'S DUROC JERSEYS

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

EUREKA herd of pure bred Poland Chinas

and Duroc Jerseys, 115 head to select from, with quality, size and good litter. Order early and get the best. Ready to ship after Aug. 1st, at farmers' prices.
W. H. SALES, Simpson, Kan.

JEWELL COUNTY HERD

headed by Bonney K. 47075, all prominent blood lines represented. Fall sale Oct. 27. Sow sale Feb. 1, 1911.
W. E. MONASMITH,
Formosa, Kansas.

DEER PARK STOCK FARM

Richly bred Poland Chinas headed by the great Impudence E. L. and Noble Chief by Nobleman. Choice lot of spring pigs for sale by Impudence P. L. and Dawley's S. P. Perfection.
D. A. WOLFEBSCHERGER,
Council Grove, Kansas.

OHIO IMPROVED CHESTERS

MISSOURI VALLEY HERD O. I. C. SWINE
A few choice March and April pigs left. Everything not sold by September 1st reserved for October sale. Pedigrees recorded free.
J. M. DRYDEN, Phelps City, Missouri.

CHOICE POLAND CHINA PIGS

Sired by Voter 133333, Perfect Mischief 48911, Senator and Voter's Pride. Sows of equal breeding and richly bred. Pigs ready to ship. Attention's Voters boars out of Meddler dam.
W. C. MILLIGAN, Clay Center, Kansas.

MOSSE OF KANSAS

Kansas Herd of Improved Chester Whites.
ARTHUR MOSSE,
Leavenworth, Kansas.

FOR SALE

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

MAPLE LEAF CHESTERS

Am making special prices for a short time on boar pigs. A few choice gilts and young sows for sale. Write your wants.
K. W. GAGE,
R. D. 5, Garnett, Kan.

THE HAWTHORNE POLAND CHINAS

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

BIG-BONED POLAND CHINAS

Spring boars for sale, sired by my herd boars: ORPHAN CHIEF by Orphan, JOHN LONG by Long John. The best lot I ever raised. Get your order in early and get your pick of my herd. BOY JOHNSTON, South Mound, Kan.

THE MORTONS

QUALITY AND SIZE POLAND CHINAS. Herd headed by Equipment 51530 by Impudence. For quick sale 20 summer and fall gilts sired by son of Meddler and 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.

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.

GRANER'S BIG TYPE POLAND CHINAS

Headed by Guys Monarch 51415, the boar with frame for 1000 lbs. and 10 1/4-inch bone. Sows, daughters of Expansion, Colossus, Bell Metal, Big Hadley, Whats Ex., etc. Choice spring pigs for sale by Expansion, Colossus, Expansive and Guys Monarch.
H. C. GRANER, Lancaster (Atchison Co.), Kan.

BIG TYPE POLAND CHINAS

Gold Standard by Chief Gold Dust in service. Sows represent the most noted big type strains. Choice lot of spring pigs.
WALTER HILDWEIN, Farview, Kansas.

ADVANCE STOCK FARM

Home of big smooth Poland Chinas headed by a great son of Big Hadley, his dam, Gold Dust Teemeh, top of Blain's closing out sale. 60 choice pigs, all but one litter by this boar, out of extra big sows.
A. R. ENOS, Romona, Kansas.

MEISNER'S BIG POLAND CHINAS

Headed by Metal Choice. Sows are daughters of such sires as Nebraska Jumbo, Pawnee Chief, Big Hadley, etc. Fifty fine spring pigs to date and more sows to farrow. Inspection invited.
T. J. MEISNER,
Sabetha, Kansas.

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.

BROWN COUNTY POLAND CHINAS

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

BAKEWELL'S EXPANSION POLANDS

Headed by Expansion Over 52110. Boar with immense size and good quality. Sows are daughters of old Expansion, Pan Fanno, Grand Look, etc. Herd established 25 years. Choice spring pigs for sale. See Expansion Over at Nebraska State Fair.
J. W. BAKEWELL, Endicott, Neb.

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.

STUMP'S BIG POLAND CHINAS

200 head in herd, Kansas King by Granter and Capt. Hutch by Captain Hutch in service. Great lot of pigs to select from. Write for prices and descriptions.
W. R. STUMP,
Blue Rapids, Kan.

10 SUMMER YEARLING POLAND CHINA GILTS

By On and On 2nd, bred for June and July farrow to Filbuster to Meddler 111111. \$60 for choice.
J. D. WILLEFONG,
Zeandale, Kansas.

AUCTIONEERS

G. E. BEAN, BARNETT, KANSAS. Auctioneer

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

H. R. LITTLE Live Stock Auctioneer Abilene, Kan.

A close student of men and methods with twenty years' experience as a breeder of Shorthorns. Entire time devoted to auction work. Reasonable charges for first-class service. Write or phone.

JOHN D. SNYDER AUCTIONEER, Winfield, Kansas.

I sell for many of the most successful breeders.

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

JAMES T. McCULLOCH, Clay Center, Kansas,

makes public sales anywhere. Pure bred sales a specialty. Better equipped than ever before to give patrons good service. Reasonable charges for first-class service.

L. E. FIFE LIVESTOCK AUCTIONEER, Newton, Kansas.

Breeder of Percherons Shorthorns and Duroc Jersey hogs; posted in pedigrees; terms reasonable. Write or wire for date.

W. O. CURPHEY LIVE STOCK AUCTIONEER. Write, phone or wire me for dates. ABILENE, KANSAS.

COL. JOHN BRENNAN. Live stock sales a specialty. Sales cried anywhere. Address at ESBON, KANSAS.

COL. FRANK REGAN

of Esborn, Kansas, will cry your next sale and give you satisfaction. Write for dates.

Jas. W. Sparks AUCTIONEER Pedigreed Live Stock, Marshall, Mo.

SULLIVAN COUNTY HERD

Poland Chinas, 200 head in herd, best blood known to the breed. For sale eight choice fall gilts, also eight Collie pups.
FULLER BROS.,
Humphreys, Missouri.

TWO YEARLING BOARS FOR SALE

Fine Metal by Gold Metal and John C. Hadley by Hadley Boy, both good individuals and have made good as breeders. Will price reasonable.
JOHN C. HALDERMAN,
Burchard, Nebraska.

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, Kan.

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.

TEN FALL BOARS for sale; also spring boars by Banner Boy, Big Hadley's Likeness, Colossus, Ned's Expansion and others. Fall sale Oct. 13. Herman Gronniger & Sons, Bendona, Kan.

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.

SHORTHORNS AND POLANDS

Herd bull Acorn Duke 7th 281336. Polands headed by Big Bone Long. Females represent leading strain. Young stock for sale.
FRELAND & WILLIAMS,
Valley Falls, 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, Bendona, Kan.

GEO. SMITH'S BIG POLANDS—Headed by Marmoth 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, Neb.

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

ELMDALE POLAND CHINAS

Over 100 head in herd. Our aim quality and size. Choice lot of spring pigs for sale. Reasonable prices.
C. S. MGYER,
Nortonville, Kansas.

LAREDO HERD

Poland Chinas headed by Impudence Style 132237 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.

FIELD NOTES

FIELD MEN.

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



PURE BRED STOCK SALES.

Oct. 26—W. S. Corsa, Whitehall, Ill.
Percherons, Belgians and Shires.
Nov. 1, 2, 3, 4, 1910—Breeders' Sale Co., Bloomington, Ill.

Oct. 10—J. W. Barnhart, Butler, Mo.
Hereford Cattle.
Nov. 10—T. I. Woodall, Fall River, Kan.
Nov. 15—O. Harris, Harris, Mo.

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.

Nov. 15—J. E. Joines, Clyde, Kan.
Feb. 8—T. J. Charles, Republic, Kan.
Feb. 22—Phillip Albrecht, Smith Center, Kan.

Aug. 16, 1910—Chas. E. Sutton, Lawrence, Kan.

Oct. 19—G. Van Tatten, Sutton, Neb.
Oct. 26—Leon Carter, Aherville, Kan.
Oct. 26—P. H. Pagett, Beloit, Kan.

Oct. 27—W. E. Monasmith, Formosa, Kan.
Oct. 29—Rinehart & Slagle, Smith Center, Kan.
Oct. 31—White Bros., Buffalo, Kan.
Oct. 25—J. B. Davis, Fairview, Kan.

Feb. 4—W. C. Whitney, Agra, Kan.
Feb. 6—J. I. Williams, Bellaire, Kan.
Feb. 8—O. A. Tiller, Pawnee City, Neb.
Feb. 9—Samuelson Bros., Cleburne, Kan.

Feb. 10—Samuelson Bros., Blain, Kan.
Feb. 13—T. E. Guethe, Leonardville, Kan.
Feb. 14—Chapin & Nordstrom, Green, Kan.
Feb. 15—Leon Carter, Aherville, Kan.

Feb. 16—W. T. Fitch, Minneapolis, Kan.
Feb. 17—L. E. Boyle, Lindsey, Kan.
Feb. 22—Phillip Albrecht, Smith Center, Kan.

Sept. 20—J. D. Spangler, Sharon, Kan.
Oct. 8—Eert C. Wise, Falls City, Neb.
Oct. 12—W. B. Stafford, Bronson, Kan.
Oct. 13—Bert Wise, Reserve, Kan.

Oct. 14—T. J. Dawe, Troy, Kan.
Oct. 15—J. E. Whipple, Fall City, Kan.
Oct. 15—H. C. Dawson's Sons, Endicott, Neb.
Oct. 17—A. R. Enos, Romona, Kan.

NEW ADVERTISERS IN THIS ISSUE.

It always pays to keep posted on what advertisers are offering. Look up the announcements of these new advertisers and mention KANSAS FARMER when writing them.

Princeton Land Co., Princeton, Kan.
Simon Land Co., Garnett, Kan.
Richmond Land and Loan Co., Richmond, Kan.

Michael & Goundy, Waverly, Kan.
C. W. Feuerborn, Richmond, Kan.
Geo. W. Iler & Son, Garnett, Kan.

Whipple's Poland Chinas.

Mr. J. B. Whipple of Fall City, Neb., one of the oldest and most successful Poland China breeders of southern Nebraska, is a regular advertiser in Kansas Farmer.

New Crop Alfalfa Seed.

The Missouri Seed Co., Box 4, Kansas City, Mo., advertise in this issue new crop alfalfa seed. They send free samples of seed for the asking, and will be glad to hear from all our readers who are in the market for alfalfa seed this fall.

A Few Choice Gilts for Sale.

With this issue F. J. Miller of St. John, Kan., starts a card advertising a few choice gilts for sale. Most of these are sired by the great breeding and show boar Peerless Perfection 2nd, a grand champion at the American Royal and sire of a number of very valuable brood sows.

Dawson's Poland Chinas.

H. C. Dawson's Sons, the veteran Poland China breeders of Endicott, Neb., have their usual excellent bunch of hogs, and are making extensive preparations to show in all classes at Lincoln, Topeka and St. Joseph.

The Wichita Fair.

In this issue will be found the ad of the Wichita Fair. Look it up and arrange to attend. A new concrete building has been erected in which to display farm products, and the directors have incurred this expense to take care of farm products in a manner satisfactory to the exhibitor.

Poland China Pigs.

C. S. Moyer, Poland China breeder of Nortonville, Kan., changes his card this week. He writes that it has been just a trifle dry in his section of the country, but recent rains insure plenty of corn.

G. A. King's Poland China Sale.

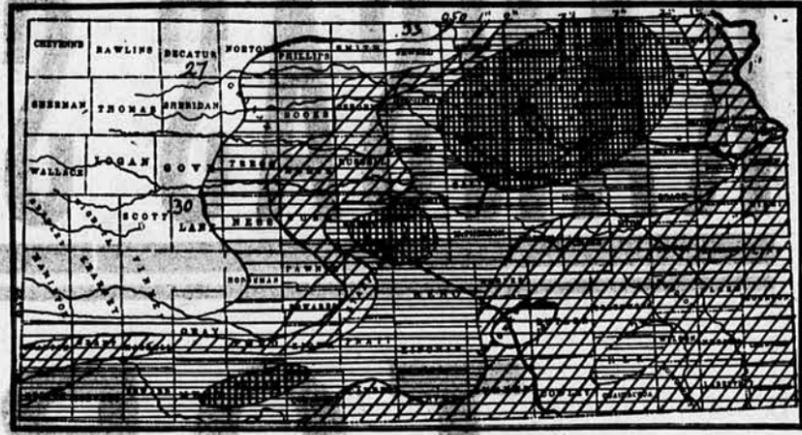
In the face of a corn crop scare, G. A. King of Cullison, Kan., sold 44 head of Poland Chinas at an average of \$22.10. The offering consisted of brood sows and March pigs.

Linscott's Great Record.

R. J. Linscott, owner of the Rosalpa Jerseys at Holton, Kan., is a hustler. In regard to his recent sales he writes: Perhaps the largest sale of pure bred Jerseys ever made in Kansas was a sale that I recently made to Mr. W. R. Spann of Shelbyville, Ky.

KANSAS CROP REPORT and Rain Fall for week ending August 13

Rain chart prepared by T. B. Jennins 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. trace

General Conditions.

Cooler weather has prevailed this week, although there have been some warm days. Precipitation occurred on from two to four days and has been ample in all parts of the state except the extreme western counties north of the Arkansas River.

Results.

Allen—Rain greatly benefited pastures and cooled the air. Early corn in poor condition.
Anderson—Nice rain. Everything revived. Farmers happy.
Chase—Fine rains, very beneficial.
Chautauqua—Recent rains have helped pastures and late corn.

Riley—Rains of this week have put all crops in excellent condition. Corn looks fine. Mill, Tuesday, did little damage. Shawnee—Excellent rains put vegetation in fine condition.

Woodson—Corn looks better, but early planted fields will not make more than two bushels to the acre. Kafir has not headed yet, but looks well.

Barber—Good rains this week have improved the condition of corn and fruit. The ground is in fine condition for plowing. Some farmers state their late corn will make 25 bushels per acre.

Barton—Great rains this week totaling 4.32 inches; hail in east part of county. The ground is soaked. Farmers began plowing for wheat. Corn and pasture are greatly benefited.

Dickinson—The corn crop has revived and farmers are much encouraged. Land in fine shape and plowing has started.

Harpur—Drought broken. Ground now in excellent condition for plowing. Peaches which were not badly damaged by hot winds and drouth are recovering. The rainfall of the present week has been immensely beneficial.

Jewell—Dews at night, and cooler weather, are helping growing crops.

Kingman—The fine rains helped corn some and have done great good to pastures and feed crops.

Marion—Good rains have helped pastures, alfalfa and forage crops, but corn has many ears without grains. Ground in good condition for plowing.

Pawnee—Weather quite cool with three good showers during the past week. Rain will benefit the corn which was not already gone. Farmers are plowing.

Sumner—The rains have started things to growing again. Ground in fine condition for plowing. Corn damaged 50 per cent or more.

Western Division.
Clark—Late corn and feed coming on finely. Some farmers claim they will have from 30 to 40 bushels of corn per acre.

Decatur—Still dry, but not so hot. Pasture somewhat improved. No change in corn. Kafir corn still promises fair crop.

Lane—Local showers have benefited pastures and corn to some extent. Prairie hay is being cut, crop light.

Norton—Corn damaged by drouth, grasshoppers and chinch bugs 90 per cent. Threshing well under way in eastern part, not begun in central; wheat yielding 5 to 15 bu. per acre.

accompanied this shipment of Jerseys, that it was so accurately gotten out and showed absolute cleanliness of health in the herd. Mr. Spann writes that the heifers got the 8 in good shape and are doing well on Kentucky bluegrass in its home environment. He has 55 head of imported cattle and these American bred ones and will hold a great sale this fall. He never buys any but the best.

Pagett's Alfalfa Durocs.

On visiting The Alfalfa Stock Farm last Wednesday the writer found the proprietor, Mr. P. H. Pagett, with over 400 head of full blood Duroc-Jerseys on hand. These are not all being kept for breeding purposes, however, but Mr. Pagett is demonstrating the advisability of keeping pure bred stock for feeding as well as breeding purposes and a visit to this farm will prove to you beyond a doubt that no farmer can afford to raise scrub stock. The stock on the Alfalfa Stock Farm are cared for in the most sanitary manner known to up-to-date stockmen. The spring pigs, of which there are about 100 head in each lot, have a feed lot of over 20 acres each which is covered with a luxuriant growth of alfalfa. These pigs are now getting a one-half feed of dry corn, fed in a different place each time, and all the green alfalfa they wish to eat. Artificial shade is provided in sheds 10 by 24 feet 4 feet high on the south side and 6 on the north, open all way around, giving good circulation of air. Good automatic waterers are provided for each lot and thus fresh water is before them at all times. With these ideal feeds and conditions and a man at the helm with good sound judgment giving his undivided attention to his stock interests good results are bound to follow. As to the breeding of the Durocs found on this farm it can be truthfully said that only the best of blood lines can be found in this herd. A lot of 50 head of boars have been reserved to sell for breeding purposes. These have been picked from 200 head of spring boars and nothing but good strong fellows have been kept in this lot. They were sired by Mr. Pagett's good Ohio Chief boar Wonder Chief and the good boar Rosebud Chief, also by Ohio Chief, the dam of both these boars being by Crimson Wonder. Other litters are by Renney K., Prince Wonder, W. J. A.'s Choice Goods and other good boars. The gilts in the herd are also by these same sires. Your wants can be supplied here in the Duroc line. Look up the "ad" in this issue and write for any special information desired.

# KANSAS STATE FAIR

## TOPEKA

Under entirely new management the Kansas State Fair at Topeka, will this year surpass any fair ever before held in the state and will take rank with the leading state fairs of the country—a credit to Kansas and Kansas people. More than \$30,000 has been spent for new buildings and improvements for the convenience and comfort of visitors and exhibitors, and nothing has been overlooked which will contribute to the success of this exposition of the agricultural resources of Kansas.

### More Than \$35,000 in Premiums

Including \$1,500.00 for County Collective Exhibits. Entries already made in the live stock, agricultural, horticultural, apiary, poultry, arts and crafts and dairy departments insure a showing of products such as the state has never before seen. Every premium will be paid in full. Manufacturers in every line will have full displays of machinery.

### FIVE DAYS RACING

More than 200 trotters and runners will be on the grounds for the exciting special contests every afternoon. The purses offered are amply large to attract the best horses of the country. Remember the date.

## September 10th to 17th

**A solid week of recreation and instruction. The amusement program and special attractions are rich and varied**

The American Ladies Grand Concert Band and Grand Opera Singers of Chicago, in four concerts daily. (Opening Sunday afternoon, September 11th, with grand sacred concert.)

Every-day flights by Strobel Air Ship. (Over city and around Capital dome, Sunday afternoon, September 11th.)

The Pain Pyrotechnic Co. grand display Spectacular Fireworks four nights, together with Strobel under a powerful searchlight in daring flights about the grounds.

Parker's clean midway with the best line of interesting and instructive shows.

Electric Panorama "Destruction of San Francisco."

Demonstrations of Deep Sea Diving.

The most instructive and educational program ever given with an agricultural convention.

Write for premium list and place your entries early.

**J. W. GOING,**  
President

**H. L. COOK,**  
Secretary