

# KANSAS FARMER

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## KANSAS FARMER.

Established in 1863.

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J. B. McAFEE.....Vice President  
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Mr. Jennings' official reports of crops and weather are based on conditions which prevailed on Saturday, May 3. The generous rains which immediately followed have made magical changes in conditions and in people's feelings. A large acreage of corn had been planted before the rains came. Grass is springing up with marvelous rapidity. Alfalfa harvest—the first one—is but a few days off. Wheat is greatly benefited. It pays to keep a stout heart when nature is unkind, and it is prosperity itself to smile when nature smiles.

### IS RAPE A NITROGEN-GATHERER?

EDITOR KANSAS FARMER:—I see it claimed by one of the seed catalogues that rape is a great nitrogen-gatherer. I had thought it not a legume. Please tell me of its effect upon the soil.

C. D. LYND.

Parsons, Labette County.

Rape is not a legume. It probably has about the same effect as cabbage upon the soil. Rape, like cabbage, contains a liberal percentage of nitrogen when computed upon the dry matter.

### AVOID ALFALFA-BLOAT.

Reports of losses of cattle from turning them into alfalfa fields are coming in. The KANSAS FARMER has repeatedly described the methods of those stock growers who pasture alfalfa without losses from bloat. These methods may be best presented by giving this spring's experience of a successful stockman. General J. B. McAfee, who takes just pride in a fine herd of Shorthorns near Topeka in which himself and son are partners, likes to be around when anything dangerous is to be done.

When the red beauties were to be turned into the pasture he went with them and kept them grazing on orchard-grass and other safe herbage until they began to lie down. Then they were allowed to go to the alfalfa. They could not eat much alfalfa because they were so full of orchard-grass. They were left at liberty to eat whatever they chose. Not one has bloated. Curious to see whether they had really eaten much of the alfalfa or had confined themselves chiefly to the orchard-grass, Mr. McAfee went over the pastures a few days later and found the alfalfa eaten down much closer than the orchard-grass.

Some may think that turning \$500 to \$1,500 animals into alfalfa in this way is "tempting Providence." Let it not be understood that the KANSAS FARMER advises such course, but those who do pasture alfalfa should never fail to take care to have the animals well filled with other feed when they reach the alfalfa. Similar care is necessary in pasturing cane or Kafir-corn.

### A BIG EXPERIMENTAL FARM.

The Kansas State Agricultural College has just come into full possession of, and begun work on, a part of the abandoned Fort Hays Military Reservation. The body of the land contains 4,000 acres, practically all of which is tillable land, and representative of the vast area through western Kansas, Nebraska, Oklahoma, and Colorado.

The first furrows were turned in the sod during the last week of March. Three hundred acres have been broken, and there will be 160 more broken. Thirty acres of the sod were disked and planted to barley, and 15 acres to five varieties of Macaroni wheats. One hundred acres is being planted to Kafir-corn, and cane, for hay and grain. Twenty-five acres of alfalfa will be put in on sod, 10 acres of bromus inermis, the same of millet, 5 acres of three varieties of corn, rape, penicillaria, potatoes, Jerusalem artichokes, peanuts, and an assortment of twenty-two varieties of grass-seed. Also a beginning has been made in the line of forestry and horticulture by planting several hundred shrubs and trees.

An attempt is also being made to observe the effects of the use of the sub-surface packer, and disked the sod to different degrees of fineness, etc. It will also be observed whether sod run over with the packer will not be in better condition for fall seeding. Ten acres of prairie-grass sod that is in fair condition was run over with a sharp disk heavily weighted. Also ten acres which has been pastured was treated similarly, and on some of the parts where the native grass is badly trampled out, an effort will be made to seed bromus inermis and other grasses.

The Fort Hays Reservation is situated two hundred and ninety miles west of Kansas City on the Union Pacific. The reservation embraces 7,500 acres, lying along Big Creek, in Ellis County. The soldiers were withdrawn in November, 1889, and since then the buildings at the post and the timber along the creek have been subject to the usual neglect and abuse. In March, 1900, a bill passed Congress ceding this land to the State for the establishment of western branches of the Agricultural College Experiment Station and State Normal School, which was approved in February, 1901. During the summer of

1899 the reservation was erroneously reported open for settlement and nearly every quarter was squatted on. Some of the filings were even accepted and homestead papers allowed. The appropriations made by the State for beginning the work were not to be available until a clear title was had to all the land. Some of the squatters recognized their error and relinquished. Others had made some improvements and were given leases of from three to five years.

The boards of regents of the two institutions made a division of the land, which gave the Agricultural College all the land along the creek, which runs diagonally through the quarters for four miles. The land slopes gently back from the creek to an elevation of perhaps two hundred feet, which gives a great variety of conditions.

This location, being typical of the great western plains, is expected to make a great Experiment Station. A thousand acres or so will be reserved for pasture and breaking at future times. A large area of alfalfa will be planted and other areas devoted to trials of various forage plants that may be adapted to the West. Fifty acres of land is being prepared for planting forest-trees next spring, and undoubtedly a whole quarter section will later be devoted to this.

The work in seed-breeding and distribution will be in cooperation with the United States Department of Agriculture. The Secretary of Agriculture will send next spring for trial, 100 varieties of the Durum wheat, and other grain and grasses in similar amounts. It is expected that this summer a selection will be made of as large a quantity as possible of their very best heads of wheat from as many fields as possible. Then the best of these will be determined by counting and weighing in the laboratory, and planted as a possible basis of an improved variety of wheat. It is hoped that in five years a variety may be produced that will increase the yield over the wheat now grown, by one to two bushels, which, when sown on the millions of acres now devoted to this crop, will make an appreciable increase in the profits. The work in seed-breeding will be pushed along the line of selection and crossing. By straight selection an improved variety may be put out through station cooperators selected in different localities in from five to seven years, while by crossing, it will take from ten to fifteen years to get a variety that may be an improvement into general use. It is intended to make the work as general as may be, and the large area that may be devoted to experiments will undoubtedly give it a practical appearance.

The branch station will bear the same relation to the Agricultural College as any of the various departments. It is not expected that any of the National appropriation for the Experiment Station can be used here, as it is already inadequate to the needs at Manhattan. The Fort Hays branch will rely on its own resources and the generosity of the State. The appropriation for the years 1902 and 1903 is but \$3,000 per annum, which is hardly sufficient to make even a semblance of beginning. This amount will be put into fencing, opening the land, buying implements, and making as many other foundation improvements as possible. The next Legislature will doubtless provide for buildings, necessary stock, and equipments for carrying forward the work in a manner commensurate with the needs of such an institution.

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### BLOCK OF TWO.

The regular subscription price for the KANSAS FARMER is one dollar a year. That it is worth the money is attested by the fact that thousands have for many years been paying the price and found it profitable. But the publishers have determined to make it possible to secure the paper at half price. While the subscription price will remain at one dollar a year, every old subscriber is authorized to send his own renewal for one year and one new subscription for one year with one dollar to pay for both. In like manner two new subscribers will be entered both for one year, for one dollar. Address, Kansas Farmer Company, Topeka, Kans.

### A New Food.

A graduate of the University of Minnesota has discovered a new food. It is popped potato. The starting point was the phenomenal action of popcorn under the influence of heat. The process of the manufacture of popped potato is based upon the fact that all starch-bearing foods can be made to pop just as corn does. The potatoes are popped, then compressed into solid cakes by hydraulic pressure. These cakes are easily preserved and easy to carry. In order to transform them into mashed potatoes all that is necessary is the addition of a little water and milk. It is claimed that one of these compressed tablets the size of a man's thumb will make a full portion for one person.



weeks, which packed the ground thoroughly. One-half the ground was manured with twelve loads of manure to the acre. On September 8 and 13 light showers fell, but owing to sickness in our family, we were unable to sow the seed until the 20th, when we again went over the ground with a four-horse drag, following with a hose drill, in order to make grooves for the seed. Two bushels of seed was then sown broadcast on the five acres. The ground was then rolled, after which the harrow was run over it with teeth set sloping. In four days the alfalfa was up nicely and made a good fall growth. With the exception of a few rows where the water stood after a large snow-drift had thawed out, it is a good stand, and at this writing, April 26, the part manured is ten inches high. The remainder is two-thirds as high and not so thick, and both are growing very fast. The difference in growth of the manured and unmanured has been perceptible from the road, sixty rods distant, since a week after coming up.

A neighbor sowed five acres about August 25, drilling in twenty-five pounds of seed to the acre, after packing his ground well. The seed failed to come up and the last of September he resowed it with the same amount of seed and in the same way with no better result. This spring he sowed twenty pounds to the acre, broadcast, and declares if he does not get a stand he will sow it again in the fall.

E. S. KIRKPATRICK.  
Wellsville, Franklin County.

#### Corn v. Kafir-corn.

EDITOR KANSAS FARMER:—There is a diversity of opinion regarding the superiority of Kafir-corn and corn, and their ability to stand the dry weather, so I give my experience.

I have tried both for six years, planting both early and late, and corn has made more grain every year, whether good or bad. But there is just as much difference between the different kinds of corn as there is between corn and Kafir-corn.

Last year we had a dry spell, lasting from May 17 to August 10. I had planted six different kinds of corn and the black-hulled Kafir-corn. The Kafir-corn did not make any grain, but made good fodder. Four of the different kinds of corn did not make fodder, but one, the "White Wonder," made ten bushels of grain to the acre, and another kind, the "Iowa Homestead No. 2," made some corn and good fodder.

I have tried nearly all the leading kinds of corn and find that the red and white varieties always stand the drought better than the yellow or the calico varieties. I also find that the "Iowa Homestead" and the "White Wonder" will make more and better corn than other kinds, any year. Ed. F. ETRON.  
Waldo, Kans.

#### They Wanted Shamel.

The corn-breeding propaganda is making rapid headway in Iowa and was responsible for the recent effort of the college there to secure Prof. A. D. Samuel, of Illinois, to succeed Prof. James Atkinson, who leaves to take up newspaper work. But Shamel, at the request of Professor Davenport, decided to remain in Illinois, and the task of carrying on the improved corn campaign in the Hawkeye State will fall on other shoulders. Who that man will be is hard to prognosticate, for available material is scarce. This condition merely emphasizes the fact that in the realm of scientific agriculture are the brightest opportunities for young men intending to seek professional careers. Nearly every agricultural college and university in the country is now badly in need of instructors and men to carry on the work of scientific research and the surface of the field has not even been scratched.

#### Alfalfa and Cow-peas.

EDITOR KANSAS FARMER:—In your issue of April 24, I see that T. T. Perry, Girard, Kans., dilates on the subject of alfalfa and cow-peas. I would like for him and others to give their experience on planting, culture, and harvesting them. I would like to ask if any of the KANSAS FARMER readers ever tried cultivating them, and if so, state results.

B. F. Low.  
Elsmore, Allen County.

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## Horticulture.

### New Fruits and Nomenclature.

DISCUSSION BY MEMBERS OF KANSAS STATE HORTICULTURAL SOCIETY.

C. A. Chandler: I have not prepared any report on this subject, but a few thoughts which occur to me seem quite important. We used to have several names for the same apple. This is being cleared up now, however. The most important part of this subject is new fruit. In our display there are three seedling apples worthy of at least a trial. The originators and exhibitors wish them named by this society. It seems to me the originating of new peaches is one of the grandest lines a person could go into. Plant-breeding is a subject that a man could spend a lifetime on as a specialty. If this society had an experimental farm for originating and testing new fruits, it would be of great benefit. I know it is hard to get an appropriation from the Legislature to start anything new, or even to carry on something already started that should be continued; but if the Legislature could be prevailed upon to appropriate enough money to buy tracts of land in different parts of the State and equip them with men and machinery for breeding new fruits, it would be of great benefit; for instance, forty acres planted in seedling peaches—not for a commercial orchard, but to originate and test new fruits. The seeds should be selected from the best known varieties, which would be determined by experimenting. Plant them four feet apart each way. The first season probably two-thirds would grow and by the end of four years probably nine-tenths of them would be cut out, and the remainder given further trial. Suppose from this forty acres we obtained in four years only one new peach as good as Elberta, it would be worth all the time and money expended, and would be as valuable to the horticultural interests as the Elberta. Possibly we might get more than one. A similar plan could be carried on in other fruits. There can be no end to the scientific breeding of fruits and improving on old varieties.

Senator Taylor: I hope the society at large will not take any stock in breeding new varieties or originating new varieties or monkeying with new varieties. There are specialists for every sort of specialty. There is one man, perhaps, in 100,000 who has the disposition and qualifications that will enable him to grow new fruits and grow them successfully; but you and I, Mr. President, do not have those qualifications, and most of you gentlemen do not have them; and if you undertake it, you will lose your time and your money. One of the curses of high-up agriculture and horticulture and all that sort of thing to the average man is it is on a plane where the atmosphere is too rarefied for him to fly. Most of us ought to keep right down in the bread-and-butter district, and let this upper-crust business severely alone. There is not anything in it at all; and there has been more effort wasted by the great common people in grasping after things that were beyond their reach, that they have been incited to by scientists and pseudo-scientists; and there have been more labor and money lost than can well be computed.

Professor Popenoe: Mr. President, I do not believe that Senator Taylor still plows with bull-tongue and mule! [Laughter.]

Senator Taylor: The gentleman who spoke incidentally upon the foolishness of commercial peach orchards from the peach seeds I thought did well to stick to his point. He could not be diverted from it by all the talk upon something else outside of the question. The little experience I have had in lawsuits has taught me that when a lawyer has a bad case he brings in something entirely outside of his case. I had no reference to bull-tongues or anything of that sort, and not to the kind of mules referred to by the professor. What I said I am ready to maintain. The majority of people who are engaged in horticulture or agriculture are wasting their time and their effort and their opportunity when they are grasping after things that are so largely recommended in agricultural papers, in agricultural books, horticultural books and papers, and fully half the talk—yes, three-fourths of the talk—in such societies as this. I have not a word to say about the efforts of any expert. If any gentleman here answers to the name of expert, he is omitted from my talk entirely. I am not aiming at him. But this business of experimenting for new varieties is only for experts—people like L. H. Bailey, or the professor in our

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agricultural colleges, or Mr. Burbank, of California, and people of that sort—but the great common people want to keep out of it.

Mr. Murtfeldt: I take it, gentlemen, that the day of caste is gone. We have no upper class and no lower class. When I see a multitude before me, on the streets or elsewhere, and they come in regulation dress, I know they are as well qualified in the head as in the body. The day is past when one or two men can be the dictators of everything that shall be grown or known among people. We have our experiment stations, it is true, but Kansas, so far as I know, has but one. There ought to be half a dozen in the State. Then when these men who are in charge give their verdict as to the value of a certain fruit it may go out that way; or this society may appoint a committee and they will report on five or six peaches, or ten apples, and have it go out as the sentiment and the verdict of this society as to the qualities of the fruit. I do not like to have a gentleman try to put up any caste here. We are against anything of that sort. We do not want one man to know it all or say it all. I think I speak the sentiment of this society when I say every man here is as privileged to speak upon a certain fruit as any other man here, or from to California.

Senator Taylor: Mr. Murtfeldt has taken me a little too seriously, and he also is getting a little bit off the question. I do not offer the idea that the bulk of the people here are deficient, Mr. President, in good, hard sense, or anything of that sort at all. But nearly everybody who is sitting before me, if they were asked about it, would be prompt to say that they had no special knowledge that would enable them, for instance, to cross different kinds of wheat intelligently or successfully, or to make it a commercial venture. If I were to follow the old revival methods and ask everybody to put up a hand who thought he was educated in that way, I guess there would not be more than eighteen or twenty hands held up. The fact is, most of us haven't any such qualifications as those required. To pursue a line of investigation of that sort is a dozen times more difficult than ever dreamed of by people who have never entered upon it or have no knowledge of it. It requires a large amount of technical knowledge that is difficult to pick up. It also requires an amount of time that a man doesn't have at his disposal who has to make his money in horticulture or agriculture. He wants a salary to do that sort of thing. As Mr. Chandler suggested, if we are going to do it, it ought to be done by somebody who makes a business of it, or somebody who does it for the love

of the thing. Most of us have taxes to pay and families to support, and the sheriff would get us if we were to go into any such nonsense as that at all. I repeat what I said before, that it is madness for us to think about it. It is one of the vices of our kind of life, that we are all the time reaching out for the myth and "neglecting the weightier matters of the law." If I had my way about it, I would have those pink leaves torn out of the catalogues. The things we want are the staple goods, not the impossibilities.

E. B. Cowgill: The discussion is becoming exceedingly interesting, although somewhat wandering. But here is a point I think we will do well to remember, and that is, that experimentation is expensive; and if we undertake to advise everybody in this audience to go to experimenting for new peaches or new apples or anything else, if these people follow such advice, they will find that they have less money than they expected to have when they get through with the experimentation. There are people who have a genius for these things, as there are people who have a genius for invention. How many people here would undertake to make a million dollars by invention? This is in the same line with invention; it requires genius for the particular line of work. Mr. Chandler's observation has the germ of a great deal of good in it. The experimentation needs to be made, and Kansas can well afford to have it made. Kansas has an experiment station, with men employed for the purpose of investigating and determining and to create, and do it along that line. We can well afford to contribute to that. We can well afford to contribute to enlarge the work. I think Senator Taylor is eminently correct as to the rank and file of us; and as to those who are engaged in horticulture for a living, unless we love a diversion and are quite willing to pay for the luxury of going into the experimental work, I agree with him that we had better let it alone; and if we want to engage in that kind of work, qualify ourselves for it, and go to work in it at the public expense and for the general good.

#### Handling Fruit.

H. E. GOODELL, BEFORE THE ANNUAL MEETING OF THE KANSAS STATE HORTICULTURAL SOCIETY.

Being an amateur in the business of raising fruit other than the strawberry, and feeling that they are sometimes neglected, simply because they do not grow as large as Ben Davis apples. I will direct my remarks to strawberry picking and marketing as practiced on my fruit farm. Strawberries must be handled with great care to get good

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LANSING, KANSAS.









## Grange Department.

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### NATIONAL GRANGE.

Master..... Aaron Jones, South Bend, Ind.  
Lecturer..... N. J. Bachler, Concord, N. H.  
Secretary..... John Trimble, 514 F St., Washington, D. C.

### KANSAS STATE GRANGE.

Master..... E. W. Westgate, Manhattan.  
Lecturer..... A. P. Reardon, McLouth.  
Secretary..... Geo. Black, Olathe.

### Personal Work.

Public meetings addressed by earnest speakers accomplish a great deal of good, but they can not take the place of personal work. When the public gathering adjourns there may be some criticism of the addresses, and a few may be convinced, by the arguments advanced by the speaker, that farmers should organize and cooperate, but in a day or two all is forgotten and everything settles down in the old way. Agitation ceases until another meeting is held and another speaker calls the attention of those interested to the duty of organizing and cooperating. After the public meeting is over, and before the arguments of the speakers are forgotten, personal workers should be sent out to talk over the whole subject in a friendly way by the family fireside, so that questions can be asked and information imparted. The man who will resist the logic of the public speaker may listen patiently to the arguments offered by his neighbor, and perhaps be convinced that he is opposing his own best interest by refusing to become a member of the Grange and cooperating with his fellow-farmers. When you want to get a man interested, talk to him in his own home and show him just what the Grange has accomplished. How it has helped you and how it will help him if he will observe the teachings of the order and cooperate with his fellow-farmers in their efforts to defeat the encroachments of the combinations of capital that wants all things for their own. Go out among your neighbors and agitate this important subject and keep on agitating it until you persuade them to act in harmony with those who are laboring for the welfare of agricultural people.—Farmers' Friend.

### Moving West.

The opinion prevails here that success in grange work for Kansas is limited to the eastern portion of the State; that beyond Lyon, or at the farthest Riley or Cowley County, the cyclones and sand storms would kill and leave naught to mourn the loss of the organization save the terrible hot winds which blow as constant as the current of time; that in the midst of those hot sand hills, where there can be found neither brick for the construction of flues nor stones for foundations, the insurance would lose some of its prestige which it has gained by year after year, cutting deep into the records of other companies and placing its history and principles in the foundation to success; and that a people living under these conditions are not eligible to the pleasures of sociability and fraternity nor to sit in the school of practical and fundamental agriculture, and participate in the lessons there learned. These theories are very nice, but we have noticed that whenever the sail of an immigrant raises an easterly wind prevails and that the cream is subject to immigration as well as the skim-milk, and when we investigate we find that there are here and there Gardens of Eden lodged among those sand hills where the cream has collected and needs but the grange to churn it into butter which is equal to if not better than that produced in the eastern portion of the State.

There is such a spot in Pawnee County, Kansas, and thanks for the able assistance of Bro. A. B. Lovett and his family, who have enabled us to plant the Grange so thoroughly in that country that we believe and hope that the time will soon come when we will see Pawnee County bloom with as much beauty and produce as good fruit as these well-known eastern counties have succeeded in doing.

One grange has recently been organized with a membership of thirty-three and a prospect for half as many more in the near future. Another grange south of the river is in process of organization and we think its organization will be permanently effected on Thursday evening the 8th of May, other districts have also presented favorable appearances, and we believe are capable of development.

It is to be hoped that the mark of success made by the grange already organized will inspire many neighboring localities with a desire to follow in its tracks.—Kansas Patron.

### Position of the National Grange and Farmers' Wishes Concerning Ship Subsidy.

The farmers—thanks to the Grange—are not entirely ignorant of this proposition to take many millions of money from the Government treasury and give it to the shipping interests which admittedly are paying larger dividends on the capital invested than many other interests which might be mentioned. The farmers furnish nearly 70 per cent of all the export trade of the country, and they do not care to be taxed either directly or indirectly to add to the already enormous wealth of those who control the shipping interests of the country. If the agricultural interests of the country would in any way be benefited by the scheme by cheaper rates of transportation the farming interests would not be so antagonistic to it, but there is nothing in it except for the ship owners. In 1895 what is known as the Lubin proposition for an export bounty on agricultural products was brought before the National Grange and strongly urged by its author, David Lubin of California, and at the same time the ship subsidy scheme was presented to the National body by distinguished representatives of the shipping interests with the proposal that if the farmers would favor the subsidizing scheme the shipping interests would favor the export bounty proposition. Both propositions were given careful and searching consideration by leading members of the Grange. Some of the best lawyers in the country and leading members of Congress, including ex-Senator Edmunds and the late Senator Morrill of Vermont, were consulted as to the constitutionality of the Lubin proposition and its chances of becoming a law. In both respects an unfavorable opinion was given.

A majority of the National Grange opposed both schemes and after several years of discussion in the Grange and elsewhere the Lubin proposition was dropped. But not so with the ship subsidy matter, which in one form or another has been before the National body since it was first introduced and the representatives of the shipping interests have always been accorded a courteous and respectful hearing, but whenever a vote has been taken on the main issue, it has been unanimous in opposition to the scheme, first as a dangerous precedent to follow, and also, an unwise policy of Government action. The strongest argument that was ever made before the National Grange in favor of subsidizing the shipping interests was made by Arthur Sewall at the National Grange banquet at Bath, Me., last November. But the most convincing argument that this distinguished and eloquent representative of the shipping interests could present failed to change the opinion of a single member of the National body, which gave renewed instructions to its legislative committee to oppose the bill in the name of the great body of American farmers. And the committee have faithfully carried out the instructions given them. All honor to the Vermont Senators who stand for the right and faithfully represent the sentiments of their constituents and the farming population of the land in this republic.—Stockman and Farmer.

### Fear Killed the Buffalo.

"Although I was on the plains when buffaloes were there by the hundreds of thousands," said an old-time locomotive engineer, "I never killed but one, and I did not mean to do that.

"It was the first year the Santa Fe railroad was opened up through Kansas. I was an engineer on that road, and one day my train was held up not far from Dodge City by a great herd of buffaloes that were traveling south. I ran as near to the herd as I could get, and then stopped to wait until it passed for I might as well have dashed my engine against a stone wall as try to force a way through that living mass.

"Of the buffaloes that could see us, which were only those on the edge of the herd, only one seemed to be disturbed by our intrusion on that vast prairie. This was the enormous bull I referred to. He actually towered head and shoulders above his fellows. He was near the head of the column, and left the ranks when he stepped upon the railroad.

"Advancing toward the locomotive he came to within a few yards of it, where, with nose to the ground, he pawed the dirt and bellowed and snorted defiance,

## DIED AT HIS POST.

### Lost His Life to Save the Money.

The defaulting cashier who gets away with the cash of the bank generally has a great deal of newspaper space allotted to his story. The cashier who recently was stabbed to death while trying to protect the money in his charge from thieves got only a few lines of notice. The question naturally arises, "Was it worth doing?" Is any sum of money worth the sacrifice of a single human life? Doubtless not. But to some people there is just one thing more precious than life, and that is honor, and the life that no money could buy the faithful man gives away for honor's sake in defense of a trust.

But for the one man who dies honorably at his post there are hundreds who die dishonorably. There is no honor in a sacrifice of life to carelessness or neglect. To try how near the edge of a



precipice you can walk without falling over is not brave but foolhardy. To try how long you can hold on to life living on the very edge of a break-down is equally foolhardy.

There is a natural limit to every man's strength. When that limit is reached he stops. Disease stops him. Sometimes it's heart disease, sometimes kidney disease, liver disease or disease of some other organ. But whatever the ultimate cause of collapse may be the contributing cause is generally lack of nutrition, due to disease of the stomach and other organs of digestion and nutrition. Blood is made from food, and blood is the life of the body and all its organs. But blood is only made from food after it has been properly digested, so when the digestive powers grow weak the body must grow weak from lack of its necessary nutrition. And that general weakness presently concentrates in some one or more organs, and the man has heart "trouble," liver "trouble," kidney "trouble," etc.

### DON'T GO TOO FAR.

It's useless to ask, How far can I go with safety and neglect my health? Every step away from a sound digestion is a step too far, and the farther you go the harder to get back.

But there is a way back to good health. Ninety-eight times in every hundred Dr. Pierce's Golden Medical Discovery will cure the weak, debilitated, run-down man or woman whose strength is palpably failing, and who is suffering in one or more organs as the result of lack of nutrition.

"I suffered for five years with kidney trouble, also inflammation of bladder, and after trying several of the best physicians here still grew worse," writes Mr. J. H. Smith, of Madison, Fla. "They

showing every disposition to forcibly resent our coming into his domain.

"As he stood there in the middle of the track, becoming fiercer and fiercer, I pulled my whistle valve wide open. Such a wild, piercing, hair-raising shriek as that locomotive let go had never split the air in that far Western country before. It struck the great bull with such terror that he rose on his hind feet as if he had been shot up by a blast, his immense head and shaggy mane and ponderous shoulders towering straight up in the air. An in-

stant the bull stood that way, his eyes big and staring with terror, and then he toppled over like a falling tree and came down in a heap across the track, making everything tremble. He was dead before he struck the ground, for there was not even the quiver of a muscle as he lay. I had scared him to death with that awful shriek of my locomotive."—New York Sun.

did me no good. I had hemorrhages from the kidneys, and thought at times I would die, when a friend persuaded me to write to Dr. R. V. Pierce concerning my case. I did so, and commenced to take your medicine. I began to improve from the very first dose. When I commenced taking your medicines was not able to do any work; hadn't been for three or four months, but after following your advice for two months was able to attend to my business, and have been ever since."

### THE PRACTICAL TEST

of any medicine 'is what it does, not what it is claimed it will do. "Golden Medical Discovery" cures. The fact is attested by thousands of well men and women. It cures when—as the witnesses whose letters we print state—the local physicians could not cure. The weak, broken-down man who can't work takes "Golden Medical Discovery" and goes back to his business a well man. The woman who suffered for nine years with a painful complication of diseases uses "Golden Medical Discovery" and grows "strong all over." These are typical cases representative of thousands of others.

"When I commenced taking your medicine, eighteen months ago my health was completely broken down," writes Mrs. Minnie Lampman, of Porcupine, Wis. "At times, generally after eating, was taken with terrible distress in stomach. Sometimes these spells would last six or eight hours. For nine years had suffered with them. My right arm was almost helpless—liver very much affected, and my nerves were so bad I was almost in hysterics. Had a craving appetite but could eat very little at a time. The least exertion would cause shortness of breath. Hands and feet cold most of the time, also had female weakness. One doctor told me I had gallstones. I took his medicines for a while, but grew worse. I then went to another; he told me I had dyspepsia, and for six

months I doctored with him, but all to no avail, for I was no better. I felt dreadfully discouraged, but thought I would try once more to find relief. I began the use of Doctor Pierce's Golden Medical Discovery and 'Favorite Prescription.' I gradually began to improve each day, and grew strong all over. I took nine bottles of 'Golden Medical Discovery' and eight of 'Favorite Prescription.' At present can work all day, and use both arms as well as any one. Haven't had any of those spells with my stomach since I began the use of your medicine."

Dr. Pierce's Golden Medical Discovery cures diseases of the stomach and other organs of digestion and nutrition. It cures through the stomach diseases of organs which seem remote from the stomach, when these diseases, as is often the case, have their origin in a diseased condition of the stomach and its allied organs of digestion and nutrition.

Those who suffer from chronic diseases are invited to consult Dr. Pierce, by letter, free. All correspondence strictly private. Address Dr. R. V. Pierce, Buffalo, N. Y.

The sole motive for substitution is to permit the dealer to make the little more profit paid by the sale of less meritorious medicines. He gains; you lose.

### ASK FOR IT.

A 1,008 page book, free for the asking. You can get The People's Common Sense Medical Adviser, the best medical book ever published, free, by sending stamps to pay expense of mailing only. Send twenty-one one-cent stamps for the book in paper covers, or thirty-one stamps for cloth-bound volume, to Dr. R. V. Pierce, Buffalo, N. Y.

Prickly Ash Bitters cures the kidneys, regulates the liver, tones up the stomach and purifies the bowels.









# Purify Your Blood!

To have health during the SUMMER when hard work makes extra demands on the bodily strength the blood must be pure, the digestion good, and the vital organs free from bilious impurities. NOW is the time to purify your blood, cleanse and regulate the system, and put yourself in shape for the season's work. YOU NEED!

## PRICKLY ASH BITTERS

THE BLOOD PURIFIER THAT PURIFIES THE BLOOD  
AND CLEANSSES AND STRENGTHENS THE STOMACH, LIVER, AND BOWELS.

During the Winter months many persons acquire a constipated habit as a result of strong diet, insufficient exercise and disorder in the stomach and digestive organs. This condition causes the system to become clogged with impurities which get into the blood and these impurities accumulate so fast that in a short time the blood can no longer furnish the proper nourishment to maintain health and strength. Under the poisonous influence of blood impurities the body grows gradually weaker and at last becomes an easy mark for the diseases that are prevalent during the Summer and Fall. In Southern latitudes this usually takes the form of chills, yellow fever or some kindred miasmatic disease; in the North, typhoid fever, pneumonia, consumption or kidney troubles. The admirable cleansing and strengthening effect of Prickly Ash Bitters is especially appropriate in cases of this kind. It strengthens the kidneys thereby assisting the extraction of the impurities in the blood. It stimulates the torpid liver so that bilious accumulations are thrown out of the system through the bowels. It tones the stomach and helps the assimilation of food, by which process the blood is enriched in life and strength giving elements.

SOLD EVERYWHERE AT \$1.00 PER BOTTLE.

Refuse all substitutes said to be "Just as Good." This remedy has stood the test of years of successful battling with disease. Get the genuine. It will produce the results you desire. 19-ounce bottle for \$1.00.

### IT PUTS THE SYSTEM IN ORDER

Begin the work right—Cleanse the blood of impurities and get your kidneys, liver and bowels in fighting trim. Through the use of Prickly Ash Bitters, the world's greatest System Tonic and Blood Purifier, you can lay in a stock of vim and energy that to the busy worker is more valuable than gold. Prickly Ash Bitters is a successful remedy for Kidney Disease and disorders due to Bad Digestion. Relieves Bloating after eating, Wind on the Stomach, Indigestion, Heartburn, Nervous Weakness, Faint Feeling, Dizziness.

Half a wineglassful of Prickly Ash Bitters night and morning for a few days, will drive out that drowsy, half-sick feeling, sweeten the breath, remove sallowness and restore the clear complexion and ruddy hue of perfect health. Persons who use it during the Spring will enjoy health, vigor and cheerfulness through the hottest weather.

It was not that she was made to see, nor that she could hear. No, it was a more precious thing than that—it was that she could love people. I will tell you how it came about.

Her father was grieved at his little girl's distress, so he went away off to a big city and found a young lady who was willing to come and teach his little blind daughter. Neither you nor I would know how to teach any one who could not see nor hear, but this young lady had thought about it and studied about it for a long time, until she knew just what to do.

When the teacher came, little Helen felt some one walking toward her and she stretched out her hand, for she thought it was her mother. Then the teacher loved her and caught her up close in her arms. And the teacher has loved her ever since and has always been with her. She has taught her to think and to write; she has taught her all about the beautiful world she lives in, about the wonderful things that men have done; and she has taught her the beautiful words that people have said and the great things that they have thought; but best of all, she has taught her that people are kind and loving, and that has made Helen Keller patient and happy, in spite of not being like other children.

### Inventions Awaiting the Touch of Genius.

For every ingenious young American, rich prizes are waiting, not only for great discoveries, but also for little things, simple improvements on the things we have. Whatever occupation he may choose, he will find that that calling is in need of men who can think of something new and better. For the men who have thought of new things, however simple, there have been in recent years in America, rich material rewards. Such a man was Hayward Augustus Harvey, who recently died a millionaire. His father was the village blacksmith in Jamestown, New York, early in the last century. Harvey saw how slow was the work of forging small things on an anvil, and sought to do it by labor-saving machinery. He became the pioneer in screw machinery and automatic pin machinery. He revolutionized screw-making. The gimlet-pointed screw was his. His last im-

portant discovery was the armor-making process which bears his name. He took out seventy-nine patents—not very many for a life of seventy years, but he did not rush to the Patent Office with every half-conceived idea. No fortune was ever more honestly earned or justly deserved than his. Like many other inventors, he showed his fellow-men how to live simply.

Concentrate your mind on the subject of needed inventions for five minutes, and you can think of a dozen things, any one of which would make its inventor rich beyond the dreams of avarice. To give a list of all the inventions that are needed in this year, 1902, would be beyond any man's power.—Franklin J. Forbes, in Success.

### Brain Markets.

Conducted by James Butler, Secretary of the Farmers' Co-operative Grain and Live Stock Association.

"The human race is divided into two classes,—those who go ahead and do something, and those who sit still and say, why wasn't it done the other way." Oliver W. Holmes

### Kept Secret.

The current issue of the Grain Dealers' Journal, published at Chicago, the organ of the various State grain trusts of the Middle West, contains a full account of the recent meeting of the Kansas State Grain Dealers' Association, out of which newspaper reporters were barred.

In fact, no newspaper reporter has been allowed inside a meeting of the grain dealers since the meeting in 1898. That year a reporter published an account of the rules established to compel competing members to form pools, and the request made to the railroads to adopt rules which would shut out "scoop shovel men," and also prevent farmers from shipping their own grain. Since then the meetings of the grain dealers have not been open to the public.

Neither is the Grain Dealers' Journal supposed to be read by the public. It is only for those who are in sympathy with the grain dealers' organizations. Nearly every issue contains matter which shows that the State organizations are generally in restraint of

trade, and the current issue contains the following editorial:

"A subscriber complains that he occasionally finds the Grain Dealers' Journal laying out so that those who are not entitled to receive it may have access to it. In sending out copies we exercise great care in confining its circulation to the regular grain dealers of the country and we have frequently warned our subscribers that its contents were intended simply for them—not for the general public. We hope that recipients will be more careful in keeping the Journal for those identified with the trade."

The paper publishes a number of the addresses delivered at the recent meeting at Topeka. One of the addresses was entitled, "A Member's Duty to His Association," by D. Hunter, president of the Grain Dealers' Union of southwest Iowa and northwest Missouri. In it he said:

"When you are advised by your secretary that certain firms in terminal markets are soliciting business from irregular dealers, it becomes your duty at once, as a loyal member, absolutely to withhold all business from such firms until such time as they regard the interest and welfare of the regular dealer."

This means that if a Kansas City commission firm dares to buy grain that a farmer has shipped direct, that the firm is to be boycotted by every member of the grain dealers' association.

In an address on "What Associations Have Done for the Grain Trade," George A. Stibbens, secretary of the National Grain Dealers' Association, said:

"After six years' of education along these lines the commission firm or track bidder who is disposed to cater to the scoop shovel element or farmers' elevator concerns is not worthy of the business they represent. We still have in existence in nearly all markets, one or two firms who solicit business from the disreputable element of the grain trade and I desire to state that their business is steadily decreasing. It is only a question of a short time until they will cease to exist as commission firms because they can not make a living out of the business they receive. When you come in contact with commission firms of this class they tell you

they are legally bound to receive consignments of grain from any person or persons, but if they would take the trouble to investigate the matter, any reputable attorney will disabuse their minds of that heresy, as no firm is legally compelled by law, to receive a consignment of grain from any one. The receiver or track bidder who is not willing to recognize the principles of association work to-day, should be so thoroughly advertised by the various organizations that he would soon seek another livelihood.

"I presume no organization has ever been persecuted as you have in Kansas. You have been persecuted by the disreputable element among the receivers and politicians. You have been persecuted by an element in the State of Kansas that exists to some extent in every State, but not so much so as in this State, and this very element is opposed to good government, good morals, and good business methods. If ever an organization was entitled to the loyal support of its members, it certainly is the Kansas Grain Dealers' Association. The element now fighting you seeks to disrupt and demoralize your organization to such a degree that you will finally abandon it. This persecution of yours in this State has largely been brought about by one man, who clearly understands that were he dethroned he would be forced to seek another vocation.

"The time has come which behooves each member of the Kansas Grain Dealers' Association to give both his moral and financial support, for few of you realize the condition your business would be in should you abandon your organization. I presume no individual member of this organization has contributed to its support from the beginning more than \$75 to \$100, and I ask you, in all candor, have you not received in return \$50 for every dollar you have contributed to the support of this organization? This is purely a business proposition with the country dealers and they can no more afford to let your organization die than they can afford to set fire to their elevators. Discontinue the organizations of to-day and your business will be ruined, your elevators will depreciate in value, your stations will be infested with two or three scalpers and you will virtually



**WEEKLY WEATHER CROP BULLETIN.**

Weekly weather crop bulletin for the Kansas Weather Service, for the week ending May 6, 1902, prepared by T. B. Jennings, Station Director.

**GENERAL CONDITIONS.**

A warm week, the temperature ranging 5° to 10° above the normal daily, and with much less wind than the previous week. The rainfall was generally light; many of the central and western counties received no rain and a few only traces of rain. Better showers occurred in the eastern counties with heavy rains in Coffey, Anderson, Bourbon, Crawford, Neosho, and Wilson. Rain is seriously needed over the State.

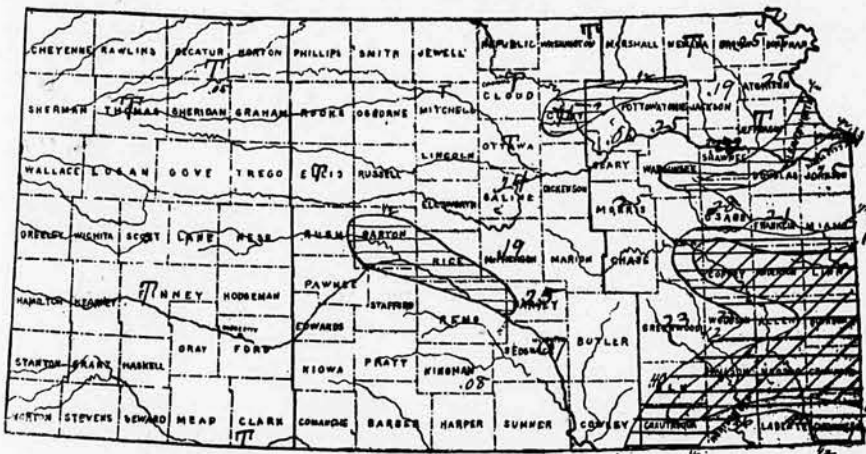
**RESULTS.**

**EASTERN DIVISION.**

Wheat is in good condition in the counties south of the Kaw River but has been injured north of the river; it has jointed in Allen; chinch-bugs have appeared in some wheat-fields in Chautauque. Corn-planting is nearly finished, but some replanting will have to be done; some of the first planting is beginning to come up in Brown; it is being cultivated in the counties south of the Kaw. Rye is heading in the south. Oats are doing well in the south, but have been injured in several northern counties. Apple-trees are full of bloom, giving promise of agood crop, but canker-worms are doing much damage in some of the orchards in Coffey and Shawnee. Peaches were all killed in Nemaha. Plums and pears are in full bloom in Douglas. Potatoes are coming up in Chase. Flax is doing well, except that winds injured it in Atchison, and some was blown out in Elk. Alfalfa is doing finely.

Allen County.—Rye headed and wheat jointed, and both promise well; corn being cultivated; Kafir, sorghum, and millet sown.  
Anderson.—Heavy rains in south part of county first of week; flax, grains, and gardens growing nicely; early corn up and being cultivated, a good stand; pastures improved, and cattle doing well.  
Atchison.—Wheat, oats, flax, and all spring crops injured by high winds; good soaking rain needed; corn-planting well advanced; flax a poor stand; apples very full of bloom.  
Bourbon.—Good rains, and growing crops doing nicely; corn generally a good stand; apple orchards blooming lightly; small fruits nearly all killed by drouth last summer.  
Brown.—Wheat on bottoms looking fairly well, other wheat not doing well; pastures very short; first planted corn coming up; apples blossomed full; rain needed for all crops.  
Chase.—Dry, windy week; wheat in need of

For Week Ending May 3, 1902.



**SCALE IN INCHES.**  
Less than 1/2. 1/2 to 1. 1 to 2. 2 to 3. Over 3. T, trace.

rain; good stand of corn; flax doing well; potatoes coming up; gardens look well.  
Chautauque.—A very fine growing week; wheat, oats, and flax doing well but chinch-bugs doing some damage to wheat and oats; corn doing nicely; fruit prospect good; some damage from hail in localities.  
Coffey.—Heavy rain on the 28th, accompanied by hail in some localities, injury being done to gardens and young flax and alfalfa; good week for farm work and growth of vegetation; corn nearly all planted; some damage to plum- and apple-trees by canker-worms.  
Crawford.—Nice growing showers; corn being cultivated, a good stand; oats thin and backward; wheat excellent; rye heading; flax good stand and promising; gardens doing well; blue-grass heading; apples and peaches scattering; cherries promising.  
Doniphan.—Very dry and wheat looking poorly; corn-planting commenced; pastures poor; apples, pears, and plums in full bloom.  
Douglas.—Wheat in excellent condition; other crops satisfactory.  
Elk.—Dry week, but grass and corn made good growth; too dry for wheat; some flax blown out by wind being replanted; fruit promising.  
Franklin.—Some corn being cultivated, stand good; vegetation, especially flax and oats, making little growth and need rain.  
Geary.—Oats not well covered injured by high wind, other oats doing well; grass making fair growth; early corn coming up; rain would do much good.  
Greenwood.—Wheat generally looking well; corn all planted; gardens doing nicely.  
Jackson.—Wheat in poor condition; corn coming up slowly, but with rain will be a good stand; meadows backward and pastures drying up.  
Jefferson.—Wheat, oats, and grass need rain; corn nearly all planted, that up a good stand; fruit prospect good.  
Johnson.—Wheat, oats, and flax looking well, corn coming up with a good stand; meadows and pastures short.  
Labette.—Splendid week; condition of all crops excellent.  
Leavenworth.—Crops in need of rain; pastures fair but dry; gardens growing slowly; potatoes coming up; apple prospect good; stock doing fairly well.  
Marshall.—Growing crops need rain badly; wheat much injured; fair prospect for fruit.  
Montgomery.—Good week for farm work; crops and pastures in good condition.  
Morris.—Early corn doing well, too dry for late; a large acreage of corn being planted; oats and flax damaged by winds; rye heading and wheat doing fairly well; large acreage of Kafir and cane; alfalfa doing well; grass slow.  
Nemaha.—Pastures very dry and all vegetation suffering for rain; wheat and oats hurt; corn being planted; fruit promising; subsoil in fair condition.  
Osage.—Garden truck and grass benefited by rain of 28th; wheat needs a rain; corn-planting progressing slowly.  
Pottawatomie.—Wheat much injured by continued drouth; pastures short and stock water scarce; heavy rain of the 3d a benefit to many crops.

Riley.—Corn coming up well; good rain Saturday night.  
Shawnee.—Wheat and oats doing nicely; corn-planting in progress; early corn coming up; cattle on pasture and doing well; apple- and plum-trees full of blossoms; canker-worms damaging some orchards.  
Wilson.—Good rain Thursday night; much corn to be replanted; prairie-grass and pastures good; alfalfa and wheat in excellent condition.  
Woodson.—Good week for work; wheat beginning to need rain; corn being cultivated, late nearly all planted; Kafir being planted; alfalfa looking well.  
Wyandotte.—Wheat suffering in northern part of county, but in southern portion has been benefited by rains and is making good growth; pastures and meadows backward, both needing more moisture; corn nearly all planted, that up promising a good stand; potatoes coming up slowly; excellent prospect for apples.

**MIDDLE DIVISION.**

Wheat is in poor condition in most of the central and northern counties, but is in fair condition in Sedgwick and is looking well in Kingman. Corn-planting progresses, being nearly finished in the south; the early planted is coming up over much of the division, but in many instances the stand is uneven. Grass grows slowly. Oats are doing better in the south than in the north. Rye is heading in Reno and Pratt, short in the latter. Alfalfa is in fine condition in Barber and Barton, and fair in Saline. Apples, peaches, pears, plums, and cherries are in good condition in Cowley. Apples are in full bloom in Jewell. Late apples are good in Reno, but early apples are poor.  
Barber.—A dry, windy week; wheat set back; corn doing well; soil too dry for planting; alfalfa in excellent condition.  
Barton.—Vegetation damaged by warm, windy weather; potatoes coming up; cattle on pasture but grass very short; alfalfa doing well; oats and barley promising; rain and heavy hail at Ellinwood evening of 3d.  
Clay.—Little hope for wheat; corn, oats, and grass growing very slowly; some corn to plant yet; some damage to gardens and corn by cut-worms.  
Cloud.—Wheat damaged by drouth and high winds, and many fields plowed up; corn-planting continues; grasses slow; feed scarce, and stock losing flesh.  
Covley.—Wheat suffering and rain badly needed; corn-cultivating begun, the stand being generally good. Apple, peach, pear, plum, and cherry prospects good; small fruits poor.  
Ellsworth.—High winds; crops going backward; grass starting very slowly, no pasture.  
Harper.—Wheat in poor condition, but somewhat improved; corn and oats doing well; pastures fair; fruits in excellent condition.

Gove.—Very dry and crops need rain; grass green and cattle doing well.  
Graham.—Wheat suffering; corn nearly all planted; potatoes look fine; subsoil in good condition, but grass, small grains, and corn need rain; apples in full bloom.  
Greeley.—Planting corn; grass doing well; cattle improving.  
Hamilton.—Vegetation making good growth; pastures green.  
Hodgeman.—Crops and grass need rain.  
Kearney.—High winds; a good rain needed.  
Lane.—All crops need rain; ground too dry to work well; most of corn and some feed crops planted; apples in bloom.  
Ness.—Wheat and other small grain badly injured; other crops making slow growth.  
Rawlins.—Much wheat injured by dry, windy weather, but fruit and vegetation doing nicely otherwise; planting almost finished.  
Sheridan.—Wheat injured by dry weather; corn-planting well advanced and early corn up; cut-worms damaging gardens.  
Thomas.—Rain needed; wheat damaged by drouth; corn almost all planted, and some planting cane and Kafir.  
Trego.—Wheat and other small grain badly injured; other crops making slow growth.  
Wallace.—Wheat, barley, and oats damaged, and range-grass drying; alfalfa fair; irrigated crops doing well; orchards in bloom.

The United States maintains its position at the head of the world's exporting nations, despite the temporary reduction in the value of exports due to the shortage in corn available for exportation. The export figures for the nine months ending with March, as shown by the report of the Treasury Bureau of Statistics, indicate a drop of \$58,681,957 in the total value of exports. When it is considered, however, that the value of corn exported fell, owing to the shortage in the corn supply, fifty-two million dollars below that for the corresponding period of last year; and that cotton, owing solely to a decrease in price, fell twelve million dollars below the exports of the same period of last year, the entire decrease is more than accounted for. Corn exports fell from one hundred and forty-six million bushels in the nine months of the fiscal year 1901 to twenty-four million bushels in the nine months of 1902. Cotton exports increased three hundred and forty-four million pounds, but owing to reduced prices, fell twelve million dollars in the total value exported. These two items—due in the case of corn to the shortage at home caused by the drouth of last year, and in cotton to the reduced prices in the markets of the world—more than account for the reduction of fifty-nine millions in the total exports.



**Sideache,  
Back-  
ache,  
Head-  
ache,**

And many other aches to which women are peculiarly subject are generally the result of a diseased condition of the womanly organism. When this diseased condition is cured, sideache, backache, headache, etc., are cured also.

Doctor Pierce's Favorite Prescription establishes regularity, dries the drains which weaken women, heals inflammation and ulceration and cures female weakness. When these diseases are cured the aches they cause are also cured.

"I will drop you a few lines to-day to let you know that I am feeling well now," writes Miss Annie Stephens, of Belleville, Wood Co., West Va. "I feel like a new woman. I took several bottles of 'Favorite Prescription' and of the 'Golden Medical Discovery.' I have no headache now, no backache, and no pain in my side any more. No bearing-down pain any more. I think that there is no medicine like Dr. Pierce's medicine. I thank you very much for what you have done for me—your medicine has done me much good."

The People's Common Sense Medical Adviser, a book containing 1008 pages, is given away. Send 21 one-cent stamps for expense of mailing only, for the book in paper covers, or 31 stamps for the volume bound in cloth. Address Dr. R. V. Pierce, Buffalo, N. Y.

Don't forget to take advantage of our Blocks of Two. See first page.

**'DEMPSTER STEEL' IMPROVED WINDMILL**

**MADE BY  
DEMPSTER MILL MFG. CO.  
All the Latest Improvements.  
Interchangeable Bearings  
Built for Business.  
Factory: BEATRICE, NEB**

**Give the  
Wind  
a  
Chance.**

**IT WILL WORK  
FOR YOU  
IF YOU HAVE A  
Dempster  
Windmill  
and  
Pump.**

**WIND MILLS  
Steel, Vaneless, Solid Wheel  
Simple and Reliable.**

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yield of milk exceeded that of the first period by 2.2 pounds, it being 216.4 pounds. The average daily feed of grain was 29.1 pounds.

The quality of hay averaged the same in each instance. Practically all was cleaned up in the latter period, while in the former much was rejected and hauled away to the other stock. Later records will show still greater reduction in the allowance of alfalfa. Judging from a careful estimate the cost of February hay and fodder will be less than 14 cents per head.

FRANK E. UHL.

**A Model Cow-barn.**

F. F. FAIRCHILD, BEFORE THE TONGANOXIE FARMERS' INSTITUTE.

My barn is of stone. The wall is twenty-two inches thick, all on top of the ground, with fourteen large windows to admit plenty of light. The entire floor is of concrete. It is sanitary in every respect, having air shafts for carrying out impure air; has bins and floors for seventy-five tons of grain, and room for eighty-five tons of hay. The stable has room for fifty-eight head of cows, with large alley-ways and wide walks behind the stalls. The cows are not tied, but are loose in the stall, which are three feet three inches wide. The partitions all swing on hinges so when we turn the cows out we swing the partitions around.

Now I have given a description of the barn the cows have furnished the money to build, to show you that money can be made in dairying in this part of the country. This barn is only a small item of what this herd has done.

I think there is no reason why our State will not become one of the best milk-producing States in the country. We not only have everything in our grasp for the production of dairy products, but we are so located that we will always have a good market for them.

**The Apiary.**

Conducted by A. H. Duff, Larned, Kans., to whom all inquiries concerning this department should be addressed.

**A Neat Little Apiary.**

We here present an illustration of a small, well-kept apiary of about fifty hives of bees. It will be noticed that most of the hives are one-story only. They were photographed early in the spring before the hives were strong enough to have the supers added. A few hives have supers on for comb honey and a few have the full double story for extracting.

The hives sit about eight feet apart each way, and are so arranged as to give the largest possible dooryard space to each colony for the ground occupied. This is very important, for to get along smoothly with the bees where many hives are kept, it is necessary that the operator, when opening hives and handling bees, be in a position where

and will make good their threats if you do not change your position. It must be distinctly understood that bees have the exclusive right-of-way in front of their hives when they are at work and the operator who understands his business never encroaches on this sacred territory.

The ground which hives occupy is perhaps the best kept that has no vegetation on it, not even grass. With a sharp hoe this is easily kept down, but to keep a closely clipped lawn about bee hives is almost an impossibility. High grass and weeds should never be allowed to grow up about the hives. Shade for bees have been largely commented upon, some preferring shade and some preferring no shade. The illustration shows the plan that suits our fancy the best, having shade at noon-day and sunshine in the morning and evening. A south or east front is always preferable for the apiary.

**Extracting Honey.**

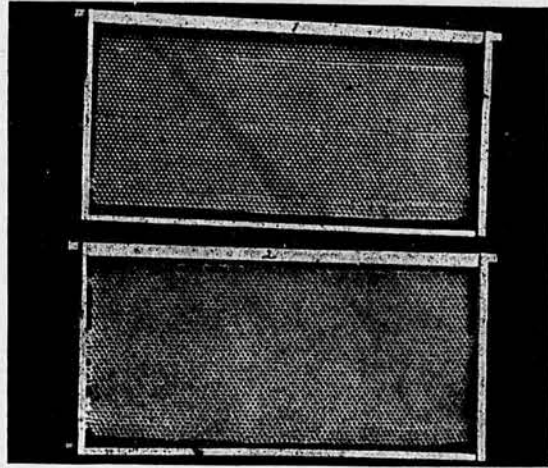
We here present a little scene that is more often heard of than seen and will only be found, as a rule, where large apiaries are kept. It is the process of extracting honey. If you have never seen extracting done you would scarcely believe your own eyes to see the quanti-

ty which the combs are placed back uninjured in the hives to be refilled.

There are as many different varieties of honey as there are different varieties of flowers, and each variety has a dif-

**Comb Foundation.**

Comb foundation and its use is beautifully illustrated in the cut shown herewith. Frame No. 1 has just been equipped with a sheet of foundation



ferent flavor of its own. When we use the extractor we can, to a great extent, keep each variety separate and distinct. One would be surprised to find such a vast difference in honey as to flavor,

wired in the frame. The traces of the wire is plainly seen. This is the only proper way to put in foundation. It may be used without the wire, providing the foundation is made in heavy



ties of beautiful clear liquid honey as it comes from the honey-combs by bringing the extractor into use. The extractor is one of the wonders of the bee age, and it will set you to guessing how the liquid honey can be taken from the tender brittle comb without destroying the comb, but when you see it operate the

quality, etc. One not accustomed to the different varieties would declare that most of the varieties were not honey at all, but some substitute in the line of sweets. This is the reason that so many think that extracted honey is largely adulterated. The fact is, most extracted honey is pure. Extracted honey taken

sheets; if it is light foundation the wire is necessary, for the foundation will stretch as the bees draw it out and apply the necessary heat to it in order to work it. Draw three wires through the frame as the cut shows, but do not draw them tight. Lay the sheet of foundation on them and press the wire down into the foundation. The top of the foundation sheet should be fastened to the top bar of the frame.

Frame No. 2 shows how bees promptly begin work on it and how perfectly they complete it. This frame had been in the hive in a strong colony but a few hours. This shows how readily the bees accepted it and how perfectly they proceeded with the completion of the same. It will be noticed that the sheet of foundation is slightly smaller each way than the inside of the frame. This must be so because the foundation stretches as the bees complete it, and if the frame is filled with it in the first place the comb when completed will be bulged, as it would not have room to expand. One-half inch at the bottom and a fourth inch at each end is about right.

If you have bees, try foundation comb and you will be pleased with results. It costs from 40 to 50 cents a pound, but a pound will equip the



he will not be in the way of the working force of some other colony. Bees do not like to have their dooryard obstructed, and if you place yourself directly in front of working colony, so that they are compelled to fly around you in coming and going from the hive, you have inflicted an insult upon their dignity, and they will promptly notify you of the fact by threatening you with stings

whole thing is explained in an instant. We believe A. I. Root invented the first practical honey-extractor sometime in the sixties. Mr. Root is yet alive and at the head of the largest bee institution in the world. The process of extracting honey is very simple. It consists of taking the frames of honey from the hives, uncapping them, and placing them in the reel of the extractor, to be emptied of their honey by centrifugal force, after

from the hives in the summer usually granulates in autumn, and if anything suits my taste better than granulated honey it is more granulated honey.

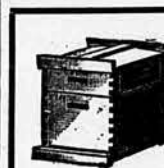
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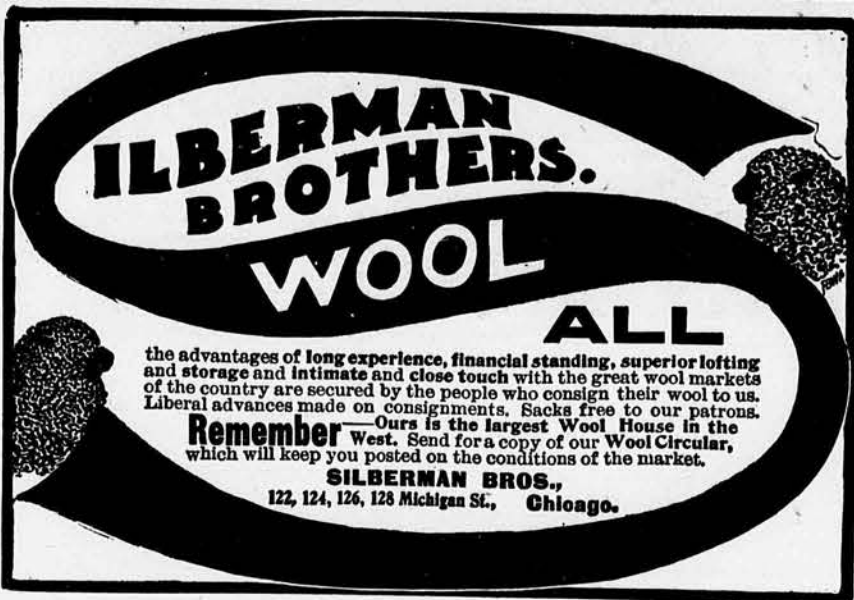
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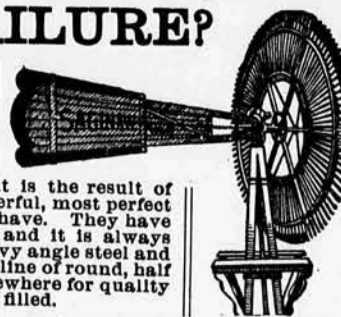
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LIVE STOCK AUCTIONEERS.

CAREY M. JONES, Live Stock Auctioneer, Davenport, Iowa. Have an extended acquaintance among stock breeders. Terms reasonable. Write before claiming date. Office, Hotel Downs.

R. E. EDMONSON, late of Lexington, Ky., and R. Tattersall's (of Chicago, limited), now located at 208 Shedley Building, Kansas City, Mo., offers his services as Live Stock Auctioneer. All the Herd and Stud Books. Wire before fixing dates.

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PERCHERON HORSES, and ABERDEEN-ANGUS CATTLE. GARRETT HURST, Breeder, ZYBA, SUMNER COUNTY, KANSAS. Young stock for sale of either sex. All registered.

PERCHERON STALLIONS FOR SALE.

DIRECT 18899, by Bendago 11807, by Brilliant 1271, dam Fenelo 14118 by Fenelon 2682, by Brilliant 1271. Bendago's dam the famous prize-winner Julia 5976 by La Ferte 514. Also 6 Young Stallions by Direct. HANNA & CO., Howard, Kans.

HENRY AVERY & SON, BREEDERS OF

Pure Percherons. The largest herd of Percheron horses in the west and the best bred herd in America. A choice collection of young stallions and mares always on hand. Prices constant with quality. Address, or come and see at Wakarusa, Clay County, Kansas.

Pleasant Hill Jack Farm.

PHILIP WALKER, Breeder, MOLINE, ELK CO., KANS. 25 Mammoth, Warrior, and Spanish Jacks Now For Sale. Quality and Breeding Unexcelled. Inspection and Correspondence Invited.

Closing-Out Sale of REGISTERED AND HIGH-BRED PERCHERONS.

Owing to my extensive real estate business and other matters requiring my attention, I offer for sale my entire stud of Percheron horses numbering some 180 head. All of the highest type of perfection and as good as money will buy. About 26 head are registered. At the head is the stallion Beconel (3912) 17877. He is a magnificent black, fine style, good action and bone, weighs about 2,200 pounds. Herkless No. 26563 is a black, coming 3 years old, weighing about 1,600. Two black grey studs, coming 2 years old, weighing nearly 1,500 pounds. Eleven brood mares, all in foal to Beconel. Balance are youngsters, all blacks and of extra good quality. Remember this magnificent bunch is only offered on account of my extensive real estate business, which makes it impossible for me to give them the attention I should. They can be seen at my Willowdale Farm by coming to Kingman where buyers will be transported to and from the farm. Any information will be gladly furnished by writing me at Kingman, Kans. Yours respectfully, FRANK WEINSCHENK.

Prospect Farm.

H. W. McAFEE, Topeka, Kansas, Breeder of OLYDESDALE HORSES, AND SHORTHORN CATTLE. For Sale—25 Clydesdales, including 3 registered stallions of serviceable age, and 18 mares. Inspection and correspondence invited.

Cheyenne Valley Stock Farm. For Sale—25 Clydesdales, including 3 registered stallions of serviceable age, and 18 mares. Inspection and correspondence invited.

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PERCHERONS.

J. W. & J. C. ROBISON, IMPORTERS AND BREEDERS, TOWANDA, BUTLER CO., KANS. Largest Herd in the State. CASINO (45402) 27830 at head of herd. Prize-winner at last National Show of France. Highest priced stallion imported from France to America, in 1901. Inspection Invited.

WE ARE NOT THE LARGEST IMPORTERS

In the United States, neither have we all ton horses. But we do make five importations each year. Our stables at Lincoln, Neb., and at South Omaha Union Stock Yards are full of first-class Percheron and Shire stallions. If you want a good one for what he is worth, it will pay you to see us. Our horses won sweepstakes in all draft and hackney classes at Nebraska State Fair. Address all correspondence to WATSON, WOODS BROS. & CO., Lincoln, Neb. SPECIAL NOTICE: Woods Bros., of Lincoln, Neb., have two cars of Short-horn and Hereford bulls and cows at a bargain.



German Coach, Percheron, and Belgium Horses.

OLTMANN'S BROS., Importers and Breeders, WATSEKA, ILLINOIS. Three Importations in 1901. 100 Stallions For Sale. No other firm enjoys such buying facilities; the senior member being a resident of Germany is personally acquainted with the best breeders in France, Germany, and Belgium. We can save you money. Come and see us. We shall exhibit at the International Live Stock Exposition, Chicago, Dec. 1-7, 1901.

S. A. SPRIGGS, Westphalia, Kansas, BREEDER AND DEALER IN

Registered Mammoth, and Imported Spanish Jacks and Jennets; Also Registered Stallions. All stock guaranteed just as represented. Correspondence solicited.

SNYDER BROS., Winfield, Kans., Breeders of

POLAND-CHINA SWINE, SHIRE and PERCHERON HORSES, and POLLED DURHAM CATTLE. Stallions of both popular Draft breeds for sale; also two jacks. Attention is called to the Public Sale of Poland-Chinas on March 21, 1902, at Winfield, Kans., by Snyder Bros. and H. E. Lunt.

Lincoln Importing Horse Company Make Their Last Call commencing April 1st and continuing 30 days, 20 per cent off on former prices. This includes a lot of elegant Percheron and Shire stallions, ranging from 3 to 5 years old, all dark colors, mostly coal blacks, thoroughly acclimated; over five months since we made our last importation. Write us or come at once and examine our stock. If you find any misrepresentation we will pay all expenses. Long distance 'phone 675. 33d and Holdrege Sts., Lincoln, Neb. A. L. SULLIVAN, Manager.

America's Leading Horse Importers We import not only far the greatest number of stallions from France, but far the best ones. We import more prize-winning stallions than all others combined at the three greatest shows of France, at Nogent-le-Rotrou, Nantes, and Mortagne. Our Percherons won every first prize including grand championship over all draft breeds at the great Pan-American Exposition. Our success at the Iowa State Fair and Ohio Exposition was equally as good. Our French Coach Stallions did not sustain one defeat at any one of these great shows. The best horses and just and honorable treatment of customers have given us the lead. McLAUGHLIN BROS., COLUMBUS, OHIO. BRANCHES: EMMETTSBURG, IOWA; LAWRENCE, KANS.

DRAFT STALLIONS

Percherons, Shires, and Clydes. We have a selection that are sure to suit you. As grand a lot of young stallions, of serviceable age as can be found in the country. We do not claim to have every color or kind of a stallion, you or anybody may want, but what we claim you will find true if you pay us a visit. All of our selections are made by a member of our firm, who has been at this line of work the past decade and has absolutely a first choice from the leading breeders of Europe. Our last importation, consisting of the three great breeds, and 62 head in numbers were selected in the early part of February, before any of the shows and to-day are ready for sale. Write us, or come and see us, if you or your community are in need of the best to be found. KEISER BROS., Keota, Keokuk County, Iowa.

The Topeka Business College LEADING SCHOOL OF BUSINESS, SHORTHORN AND PERCHERON BREEDING Large School. Reasonable Rates. Good Positions. Catalogue Free. Address L. H. Strickler, Topeka, Kan

**MAINS' HERD OF POLAND-CHINAS.**

Pigs by Anderson's Perfect, Harris' Black U. S. (the champion sweepstakes boar at the Iowa State Fair of 1900), Kemp's Perfection (the highest priced pig by Chief Perfection 3d sold last year). Stock of all ages for sale, including three yearling boars.

**JAMES MAINS Oskaloosa, Kansas.**

**20 Shorthorn Bulls For Sale.**

Three of them, 3 years old, balance 10 to 20 months, in good, serviceable condition, by Cruickshank and Scotch-topped sires. This is the best and evenest lot of bulls we ever raised. Prices moderate.

**A. B. & F. A. HEATH, Republican, Neb.**

**Bargains**

In young SHORTHORN BULLS got by the great Scotch sire Bar None, he by the great Abbottsford; pure Scotch and Scotch-topped. Fine, registered 3-yr.-old Clyde Stallion for sale now.

Write **THOS. ANDREWS & SON, Cambridge, Nebraska.**

**H. O. TUDOR, HOLTON, KANSAS.**

**BILL BROOK BREEDING FARM,  
(REGISTERED SHORTHORNS),**

Comprising cattle from the following well-known families, (topped with the best Scotch and Bates blood): Rose of Sharon, Zella, Belina, Ruby. This is a select draft from my herd and will constitute one of the best offerings of the year 1902. Also breeds registered and high-grade Angora goats.



**STEELE BROS., Belvoir, Douglas Co., Kans.,**

\* \* \* Breeders of SELECT \* \* \*

**HEREFORD CATTLE**

Young Stock For Sale. Inspection or Correspondence Invited.



**Bulls Cut Price 30 Days.**

We have a carload of registered Bulls, 12 to 20 months old, several are pure Scotch and herd headers. Will sell singly, or in lots to suit purchasers. These bulls were sired by Lord Mayor 112727 and Knight's Valentine 157068, both Scotch bulls. The dams of these bulls are splendid cows with from two to five Scotch-top crosses. We desire to close these out during the next 30 days and for that reason will sell at reduced prices.

**T. P. BABST & SONS, Auburn, (R. F. D.), Shawnee Co., Kans.**



**GLENDALE SHORTHORNS.**

Imp. Prince Lovely 155860 and Scotland's Charm 127264  
IN SERVICE

Young Bulls, Cows, and Heifers for sale at all times.  
**O. F. WOLF & SON, Ottawa, Kans.**

**T. K. Tomson & Sons,**

\* \* Proprietors of \* \*

**Elderlawn Herd of Shorthorns.**

**DOVER, SHAWNEE COUNTY, KANSAS.**

Gallant Knight 124468 and Imported Tellycalrn in service. A choice lot of serviceable bulls, and a few bred cows for sale. Correspondence and inspection invited.

**Sunny Slope Herefords**

**...200 HEAD FOR SALE...**

Consisting of 40 good Cows 3 years old or over, 10 2-year-old Heifers bred, 50 yearling Heifers, and 100 Bulls from 8 months to 3 years old. I will make **VERY Low Prices** on any of the above cattle. Write me or come and see me before buying.

**C. A. STANNARD, Emporia, Kans**

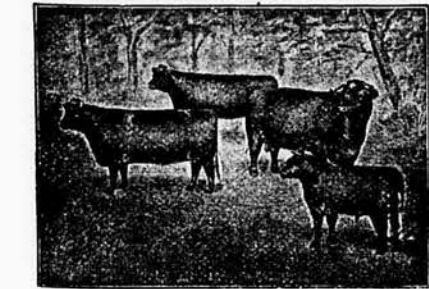


**Pearl Shorthorns.**

**YOUNG BULLS FOR SALE**  
sired by the Cruickshank bulls Lafitte 119915, and Baron Ury 2d 124970, ranging in age from 8 months to 2 years.

Inspection Invited

**C. W. TAYLOR, Pearl, Dickinson Co., Kans.**

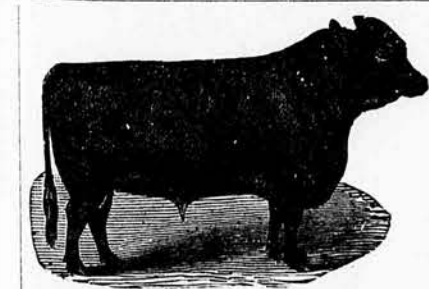


**100 ABERDEEN-ANGUS CATTLE FOR SALE**

**50 Aberdeen-Angus Bulls**  
Coming 1 year old, weighing about 750 pounds.  
**50 Yearling Heifers**

Sired by the registered bulls: Hummel 23993, Ebbitt 31509, Heather Lad of Estill 2d 17440, Emmert F 36788, Regnal Doon 32728, and Gardner Mine 32240.

Bulls from my herd have, probably, during the last three years produced more market-topping steers than have been produced from the bulls of any other herd of Angus cattle in the United States during this time. My cattle are full bloods by breeding up but are non-registerable. These cattle are on my farm adjoining Frankfort, 75 miles west of Atchison on the Missouri Pacific Railroad.



For further information, call on or address **O. H. BUTLER, Frankfort, Kans.**

**SHORTHORNS**

**AT AUCTION!**

...AT...

**Platte's Sale Stables, Chillicothe, Mo**

**...THURSDAY, MAY 15, 1902...**

**60 Head--31 Bulls and 29 Females.**

A Chance for All Classes of Buyers to Secure Just What They Need.

Cows with calves at foot, and bred again, heifers safe in calf, and young bulls bred well enough to head any herd, from such families as Young Phyllis, Young Mary, Arabella, Rosemary, Lady Barrington, Rose of Sharon, Sanspareil, Desdemond, Victoria, and Caroline. Sired by Imp. Nonpareil Victor, Imp. Grand Elector, Imp. Aboyne. Imp. Chief Stewart, Imp. Chief Justice, Grand Victor, Winsome Duke 11th, Red Cup, Golden Knight of Enterprise, Chief Violet 4th, and Scottish Hero.

CONTRIBUTORS:

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AUCTIONEERS: COLS. SPARKS, GRAHAM, AND SLIFER.  
Mention THE KANSAS FARMER.

**SHORTHORNS AT AUCTION**



**W. T. & H. R. CLAY, of Plattsburg, Mo.,**

WILL OFFER AT

**KANSAS CITY, MISSOURI,  
WEDNESDAY, MAY 14, 1902**

**75--SCOTCH, SCOTCH-TOPPED,  
AND BATES SHORTHORNS--75**

Consisting of Butterflies, Secrets, Orange Blossoms, March Violets, Lady Gunters, Young Marys, Phyllises, Rubys, and Rose of Sharon. The offering embraces a select draft of 20 head from H. R. Clay's herd, and the entire herd--55 head, of W. T. Clay, including 41 cows, 8 to 8 years old, some with calves at foot; six 2-year-old heifers, bred, 12 heifers 7 to 20 months old, and 16 bulls 12 to 24 months old.

A Grand Lot of Highly Bred Shorthorns of Great Quality from the Oldest Herds in Missouri.  
**EVERYBODY INVITED.**

For Catalogue, Now Ready, and Other Information, Address  
**W. T. & H. R. CLAY, PLATTSBURG, MO.**

**SCOTT & MARCH  
BREEDERS OF PURE BRED  
HEREFORDS.**

**BELTON, CASS COUNTY, MO.**

BULLS in service, HESIOD 29th 66904, Imp. RODERICK 80155, MONITOR 58275, EXPANSION 93662, FRISCOE 93674, FULTON ALAMO 11th 83731.

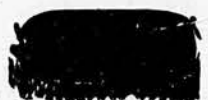
25 miles south of Kansas City on Frisco; Ft. Scott & Memphis; and K. C., P. & G. Railroads

**ROME PARK STOCK FARM.**

**T. A. HUBBARD, Rome, Kans.,**

...BREEDER OF...

**Poland-Chinas and  
Large English Berkshires.**



FOR SALE--12 Berkshire boars and 20 bred sows and gilts, 20 Poland-China boars, and 50 bred sows and gilts

WHEN WRITING ADVERTISERS MENTION KANSAS FARMER.



# BULL BUYER'S BARGAINS!



**SOUTH OMAHA, NEBRASKA,  
TUESDAY and WEDNESDAY, MAY 27 and 28, 1902**

**The National Hereford Exchange**  
*Is Instructed to Sell by Auction, to the Highest  
Bidder, the Following Registered*

## ***Hereford Cattle***

### FOR

J. G. Huggans & Sons, Wyoming, Ia., 23 bulls, 17 cows; W. N. Rogers, McCook, Neb., 8 bulls, 12 cows; H. F. Schnelker, New Haven, Ind., 11 bulls; C. P. Whitney, Union, Ia., 1 bull; P. M. Morse, Brainard, Neb., 6 bulls; O. M. Bovee, Anita, Ia., 2 bulls; H. F. Tuck, Houstonia, Mo., 3 bulls, 1 cow; C. L. Fickel, Laredo, Mo., 3 bulls; H. F. Fickel, Laredo, Mo., 3 bulls; C. L. Browning, Laredo, Mo., 6 bulls; A. J. Buckner, Wheeling, Mo., 1 bull; R. A. McCarty, Murrayville, Ill., 2 bulls, G. B. Little, Olathe, Kans., 1 bull; Fred Eason, North Bend, Neb., 1 bull, 1 cow; R. P. Horning, Springfield, Mo., 3 bulls; Mrs. L. E. Bevins, Cedar Rapids, Neb., 1 bull; W. & T. G. Roberts, New Market, Mo., 3 bulls; F. A. Baylies, Des Moines, Ia., 5 cows, 3 bulls; Rees Williams, Norborn, Mo., 1 bull; Dominick Gross, Avoca, Ia., 1 bull; J. D. Switzer, Clarence, Mo., 9 bulls; J. E. Reyman, Salem, Ind., 9 bulls; J. S. Kennedy, Clarinda, Ia., 1 bull; Jas. Wren, Keytesville, Mo., 6 bulls; Evan Davies, Keytesville, Mo., 3 bulls; Wm. Ernst, Graf, Neb., 6 bulls, 4 cows; W. W. Gray, Fayette, Mo., 13 bulls, H. W. Hancock, Defiance, Ia., 2 bulls. : : : : : : : : :

## THE TIME IS AT HAND

When bulls are put to work, and therefore, this the last important sale of the season, includes more bulls than have been offered this season, offering bull buyers an unparalleled opportunity of the year. Cows and heifers are included so as to meet the needs of all buyers. Animals suitable for show ring are included, but owing to the high price of feed, many of the cattle offered are naturally presented in ordinary breeding conditions. The offering includes all classes of cattle; splendid specimens for the expert—cheap ones to entice beginners, and between these, animals suited to all pocket books.

**Sale will be conducted by Auctioneers F. M. Woods, R. E. Edmonson, G. M. Jones,  
and H. W. Graham, in the**

## **STOCK YARDS CATTLE PAVILION.**

**Tuesday's sale to commence at 1 o'clock; Wednesday's sale at 10 A. M. For Catalogs, address**

**National Hereford Exchange, T. F. B. SOTHAM, Manager, Chillicothe, Mo.**