

KANSAS FARMER

Volume XLIV. Number 6

TOPEKA, KANSAS, FEBRUARY 8, 1906

Established 1863. \$1 a Year

KANSAS BOYS' CORN-GROWING CONTEST FOR 1906.

The Kansas State Agricultural College, through the farmers' institute department, announces a "corn-growing" contest for Kansas farmer boys. It is important that this movement reach the greatest possible number of farmer boys and it is also important that the work be undertaken in at least sixty counties, in what is known as the "corn belt."

To reach the greatest number and to interest the greatest number of farmers and farmers' boys, the work should be handled in each county, through some local organization or through the county school superintendent.

The details have been worked out on the assumption that a contest is to be held in each county and that the winners in that contest will be considered eligible to enter the State contest. Each county organization must decide upon the character of the prizes. The institute department will plan for farmers' institutes to be held between the middle of October and the middle of December in all of the counties where contests are being conducted, in order to give personal instruction in judging corn. All local corn-judging will be done by members of the institute staff or by judges selected by the college.

Ten prizes will be awarded in each county contest on exhibits of ten ears in each entry. Each winner may then select another lot of ten ears—from his own raising, of course, and bring to the State contest, to be held January 1-2, 1907, at the Kansas State Agricultural College.

Each county organization will be expected to furnish to each boy one quart of seed-corn from any of the following well-known varieties:

Kansas Sunflower, yellow dent, medium late; Hildreth, yellow dent, late; McAuley, white dent, medium late; Hammett, white dent, medium early; Mammoth White Dent, white dent, late; Hiawatha Yellow Dent, yellow dent, medium; Griffing Calico, calico, late; Boone County White, white dent, medium; Reid's Yellow Dent, yellow dent, medium early; Hogue's Yellow Dent, yellow dent, medium early; Leaming, yellow dent, medium early; Legal Tender, yellow dent, medium early; Silvermine, white dent, medium early.

The first seven varieties named are "native" Kansas corns recommended for growing in this State by the Kansas Corn-Breeders' Association. The other varieties named are desirable, or pure-bred types of corn introduced from other States and recommended by the Kansas Corn-Breeders' Association for growing in this State after the seed has become acclimated and the corn adapted for growing in Kansas. Other varieties of corn, not here named, which may be well-bred and especially adapted to certain localities in the State may be used in this contest. It is preferable to secure seed as far as possible from local growers, since such corn is more likely to be adapted for growing in that certain locality.

The county institute committee, or other organization or person or persons taking charge of this work, should decide as early as possible on plans for advertising the contest and upon the varieties of corn to be used, taking that deemed best adapted to their county, preferably using a corn raised nearest their latitude and under similar conditions. They should use only pure varieties of corn to avoid having their boys' samples thrown out at the State contest. The corn should be carefully selected for purity and uniformity of type and perfection of form. Then a day in March or April should be set for

the distribution of this seed-corn. It should be shelled and measured and sacked, and the sacks tied and handed out, and name, address and age of each boy taken and also the name of his father or guardian. This list should be copied and deposited in a bank for safe keeping. The names and addresses of contestants should also be printed in all local papers. Usually the local paper will gladly publish this list every week from the time the first name is entered up to the week following the distribution of the seed. This publication always helps to encourage others to enter. The Kansas Farmer will also gladly publish all such lists, and those in charge should not fail to mail lists to this paper. The college authorities hope that not a county in the "corn belt" will enter less than one hundred boys. And surely some counties will have five hundred contestants. Certainly no institute committee or fair committee or county superintendent ever had a greater opportunity to advance the agricultural interests of Kansas than is offered them in this movement for interesting the coming farmers of the State.

Who May Enter.

The contest is limited to farmers' boys between twelve and eighteen years of age. The work must be conducted on a farm, not on a city lot. Each boy who gets a quart of seed must agree to plant it carefully, cultivate it well and exhibit at the county institute and corn contest the next autumn or winter, ten ears of corn raised from that seed. With his entry he must submit a brief statement as to date of plowing the ground, kind of land, length of cropping history, methods of preparing for planting, method and date of planting, methods of cultivation, date of gathering his samples and statement of number of mature stalks in plot on the first day of August and the number of ears and also the number of barren stalks. Each boy must further agree to attend, if possible, at least one session of the county institute. While all will be invited to attend the State contest this will not be required.

The State Contest.

All the winners in the county contests will be eligible to enter the State contest. If the farmers' institute holds a contest and the county fair offers prizes under the conditions and if any individual offers prizes, making the conditions herein set forth, all the winners may select corn and enter their best ten ears at the State contest.

This contest will be held as stated elsewhere, at the Kansas State Agricultural College, January 1 and 2, 1907, under the auspices of the State Corn-Breeders' Association, and the Agricultural College boys who win in local contests will be allowed to bring or send the same ten ears exhibited at the local contest, or they may make a new selection, but from the product of the same quart of corn given out by the committee in the spring for the contest.

County and State Prizes.

The college does not wish to decide as to the prizes in the local contest. In all counties where farmers' institutes are organized in conformity with the State law, it might be advisable to use the larger part of the institute fund. Prizes might be outlined on something like the following scheme: For best ten ears of corn, in order, \$9, \$8, \$6, \$5, \$4, \$3, \$2, \$1, \$1, \$1. Such a plan and such prizes would do wonders for the corn crop in Kansas and for the education of thousands of farmers' boys. The prizes for the State contest will be announced later but they will be as

liberal as it is possible to make them. Nothing is too good for the boys who are able to win out in the county and then in the State contests.

Begin Work Soon.

Institute committees are urged to take hold of this work at once as it will take several weeks to get it well advertised and to create general interest in the county among the boys. A local committee should be appointed for each township to work up a list of boys. All local editors should be consulted at once. It will be hard to make this a success without their help, and in one hundred cases out of every hundred the editors of Kansas newspapers will contribute more time and more work and more cash (for labor) according to their means than almost any other class of people. The assistance of county superintendents of schools should be secured at once. No other person can wield as much influence for this movement as the county school superintendent. In fact, in counties where there is no farmers' institute organization or where the organization will not take hold of this very promptly, the county superintendent will be asked to assume the whole responsibility of the contest.

Briefly.

1. Wanted—10,000 Kansas farmer boys to enter "county corn-growing" contests.
2. Wanted—At least seventy counties to take hold of this for the sake of the boys and for the purpose of advancing the farming interests of Kansas.
3. Farmers' institutes should be first to organize for the county contest. Next the college will look to the county school superintendent to organize the campaign for the boys. These educated and progressive officers will doubtless cooperate with the institute committees in the work of enlisting the boys even in case the farmers' institute undertakes the work. In one county in Nebraska last year the county superintendent enrolled 484 boys in a "corn-growing" contest. An Illinois county superintendent has conducted these contests for many years, usually in connection with the farmers' institute.
4. The college will look to the patriotic Kansas newspapers to cooperate in this movement as they have always been willing to help in advancing any good cause.
5. Correspondence is invited by Prof. J. H. Miller, Director Farmers' Institutes, Manhattan, Kans., from farmers' institute officers, county fair associations, county school superintendents, newspaper men, and from any citizen interested in this movement for the boys.
6. The director should have a record of the names and addresses of all officers of farmers' institutes with the name of each institute. It is asked, therefore, that the secretaries of these institutes report such list to the director in order that a directory may be compiled to be issued April 1, 1906.

DEPTH FOR BARN FOUNDATION.

Editor Kansas Farmer:—I have been interested in reading your valuable paper and would like to ask a question about cement foundations.

I intend building a barn that will hold about thirty tons of hay overhead, the foundations being cement. How deep in the ground should it be put? Some say six inches. I think eighteen inches would be better.

Osborne County.
The depth to which a foundation should be laid is influenced by soil and location. A concrete foundation, properly made, becomes one stone, and is

less liable to irregular settling than is the common stone foundation. But, the rats that are sure to burrow about a barn, are to be kept ever in remembrance. They will probably go under any foundation, but will be less likely to do damage to a deep than to a shallow wall. Our correspondent will not regret if he makes the depth eighteen inches but may be satisfied with twelve inches.

LIABILITIES OF STOCKHOLDERS TO ASSESSMENT.

Editor Kansas Farmer:—Under the laws of Kansas can the shares of stock in a rural mutual telephone company, "incorporated or unincorporated," be assessed at any time to get money to pay running expenses? Please answer through the Kansas Farmer.

Douglas County. SETH FENTON.
Let us consider first the case of the incorporated company.

The laws of Kansas provide in section 13, "Every corporation as such has power: . . . Sixth, To make by-laws, not inconsistent with existing [State] laws, for the management of its property, the regulation of its affairs, and for the transfer of stock."

Section 35, "All bodies corporate may sue for, recover, and receive from their respective members all arrears or other debts, dues and other demands which now are or hereafter may be owing to them, in like mode, manner, and form as they might sue for, recover and receive the same from any person who might not be one of their body."

Under the first provision here quoted the corporation acting through its board of directors may make a by-law providing that in case the income of the company available for the payment of running expenses were at any time insufficient for that purpose, an assessment might be made against the stockholders. Such assessment would then become a demand against each stockholder, varying in amount according to the amount of his stock and would be collectable under section 35 above quoted.

There may be a question of legality of an assessment not made in pursuance of a by-law, except in the case of stock only or partly paid for. In this case the stockholder who refuses or neglects to pay an authorized installment on his stock may be made to forfeit his stock with all payments made.

The case of the unincorporated company is that of a partnership in which any one is liable for the full amount of an indebtedness incurred. In the case stated unpaid operating expenses would become a debt against the company. If an assessment were made to pay this debt, the unincorporated company would not be able to bring suit to collect in case any partner refused to pay as requested, but the creditor or any purchaser of his claim could bring suit against any partner for the unpaid balance. Not much ingenuity would be required to have such suits brought against the non-paying partners.

It thus appears that in either case the stockholders of the company may be assessed to pay running expenses and unless execution-proof may be compelled to pay such assessment.

HE MAKES FARMING PAY.

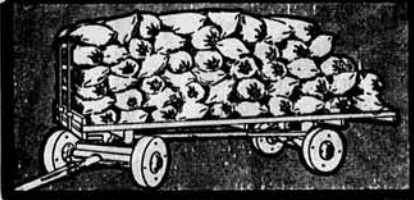
Mr. E. L. Williams, who lives near Kansas City and is, incidentally, president of the Wyandotte County Horticultural Society, has rented about 60 acres of land one mile west of the city limits.

Ten acres of this is occupied by an old orchard, planted about 35 years ago. This orchard, like many old or-

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KANSAS FARMER.

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Published every Thursday by the Kansas Farmer Co., Topeka, Kansas

SUBSCRIPTION PRICE: \$1.00 A YEAR

Entered at the Topeka, Kansas, postoffice as second-class matter.

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116 West Sixth Ave., - Topeka, Kans.



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chards in this locality, had not been productive for years until Mr. Williams took it in hand a few years ago. Mr. Williams is about 60 years old, was brought up on a farm, has been engaged in farming and the nursery business. He has always taken a lively interest in horticultural affairs. He takes the daily papers, and several agricultural papers one of which, the KANSAS FARMER, has been his "right-hand man" for the last 35 years.

He says he can make more money by spending one-third of his time in reading agricultural papers, asking questions of those who are better posted than he is, and those who are half so well posted—attending Horticultural meetings and visiting other localities, than if he worked hard all the time, and denied himself these advantages, as many farmers do.

Thus it will be seen that Mr. Williams is an up-to-date, modern farmer, whose opinions and experiences are entitled to consideration, says the Kansas City Sun, of which he has been a reader for 17 years.

He says that the time was when 160 acres was considered a small farm. That was when the land was new, and was the day of extensive farming. Then it did not require any brains to get a good crop—when the seed was put in the ground, it grew with but little attention; but since the land has become exhausted, and the price of land much higher, the farmer must exercise his brain and all his ingenuity to make farming profitable.

Mr. Williams is one of the most thorough horticulturists in the State, and it is his aim to make this old orchard of ten acres as productive as possible and he is using all the means at his command to bring this about.

The soil is worn and exhausted and requires fertilization and cultivation. All of the straw and manure produced on the farm, as well as hundreds of loads hauled from the city, is used to fertilize the soil. He commences cultivating the orchard in February and March—before the buds swell, and then sows it to clover or alfalfa. He has enough horses to do the farm

work, over 100 chickens, that produce thousands of eggs annually for the market, besides the chickens and eggs that are used on the table. He has eight good cows, which afford 400 pounds of butter annually and the milk is fed to the hogs. Very little of the milk is sold on the market. The object is to return to the soil as much as possible the fertilizers produced by the horses, cows, hogs and chickens.

Mr. Williams has about 40 acres in alfalfa, growing four crops a year, producing from three to four tons per acre, which he could sell readily at \$10 per ton, but he sells very little of it. He feeds it to his horses, cows, hogs, and chickens—the leaves that shatter off in the barn making excellent feed for the chickens. He is a great admirer of good qualities of alfalfa, and says that it has recently been discovered by archeologists that alfalfa was fed to the chariot horses of Babylon, over four thousand years ago.

To be able to know just which of his products are most profitable, he keeps an accurate account (or rather, his good wife does, who ably assists him in all of his undertakings), of all his receipts and expenses, and by this means he finds that his receipts for the past year were nearly \$1,000 more than he had estimated a year ago. The main receipts were from 1148 bushels of apples which sold for \$1,204. From the eight cows, he sold 3,000 pounds of butter. The total cash receipts for the products of this farm for the year, were over \$2,600, besides what was consumed by the family.

Mr. Williams found time to attend the annual meeting of the State Horticultural Society at Topeka, and on the following Friday and Saturday attended the annual meeting of the Missouri Horticultural Society in Kansas City, Missouri.

During last August, he and his wife made a 1,500 mile trip through Indiana and Illinois, visiting relatives, and making observations, and later in November, they made another trip, of about 1,500 miles, through Oklahoma, Texas and Louisiana, visiting several relatives on the trip. Thus it will be seen that while he does not work always on the farm, with his hands, he is constantly doing more or less "head farming" and is making a success of the business.

In speaking of his success Mr. Williams remarked: "This will give you same idea of how well I have learned my lessons from the KANSAS FARMER which I have read most of the time for the last 35 years.

The new railroad from Topeka northwest to Onaga in the northeast portion of Pottawatomie County was formally opened last Monday. This is at present a branch of the Union Pacific. It is soon to be extended to Marysville, Marshall County, where it will connect with the Grand Island arm of the U. P., by which it will continue to Grand Island on the Omaha arm of the U. P. It is stated that on completion of the section between Onaga and Marysville the through trains from Kansas City to the Pacific will be run over this new line, shortening the distance from Kansas City to San Francisco by 100 miles. The new road traverses a splendid country in which the corn and cattle were much in evidence as the first train passed the fine farms and elegant homes. The Topeka Commercial Club, reinforced at the several stations along the new line, filled the first train. The Onaga Commercial Club and all of the citizens of this live town were the hosts while the excursionists were with them.

Homestead Question.

Editor Kansas Farmer:—Can a person who owns 160 acres of land take a homestead? J. W. COVERDILL, Chase County.

In answer to the letter herewith, I will say that a person can homestead 160 acres and own 160 acres of deeded land. He makes affidavit that the land he applies to enter and that he owns together will not aggregate more than 320 acres.

H. F. MILLIKAN, Register, U. S. Land Office, Dodge City, Kans.

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Agriculture

Corn Improvement by Seed Selection.

By C. T. Hartley, U. S. Department of Agriculture, at the Thirty-fifth Annual Meeting of the Kansas State Board of Agriculture.

The United States produces three-fourths of the corn produced by the entire world. From this fact it would seem that it is hardly necessary to increase our total corn-production, but, as a matter of fact, this enormous production is produced in a too laborious manner. Ninety million acres are plowed, planted and cultivated to produce a crop of 250,000,000,000 bushels, which might be produced on half that amount of land. For the past ten years the average number of bushels per acre for the United States is 25, while it is a very common occurrence for many farmers to reap 50, 75, or even 100 bushels of corn per acre.

Much land is planted to corn that in its present condition is unsuited to corn-growing. By discontinuance of the planting of such land to corn, and the adoption of better methods of cultivation, and the planting of better seed, it is certain that the average production per acre could, within a few years, be raised from 25 to 50 bushels.

There is also great room for improvement in the quality of corn produced in this country. We produce the best grade of corn that is grown anywhere in the world, but the quality of that produced in many of the corn-growing sections of the United States is far below what it should be. A prominent corn-buyer of one of the leading corn-producing sections of the United States made the remark that the corn grown in his section looked very much better after being shelled, and an examination of the ears in a large number of extensive cribs certainly verified his statement.

There was not a good ear in a hundred bushels of corn. This condition of affairs is due largely to the poor quality of seed planted. Some farmers as yet pay little attention to the kind of corn they use as seed; but within the past few years there has been a great awakening in regard to this matter, and it is only the most careless that now use as seed the quality of corn that yet remains in the crib at planting time. The organization of corn-breeders' associations, corn-judging contests, corn exhibitions, and short courses in corn-judging in the agricultural colleges throughout the country, have brought to the attention of almost every farmer the great effect the quality of seed planted has upon the crop that will be harvested. All these forces have been of immeasurable good to the country in increasing the production of corn per acre. Some of the first attempts were made along the line of breeding for fancy points. This state of affairs, however, is not confined to corn-breeding. It is the history of most all lines of breeding work. Poultry-breeders at first bred for appearance of plumage. Cattle-, sheep-, and horse-breeders bred for color and markings. However, the tide has now turned, and poultry-breeders are breeding for increased egg-production; cattle-breeders for butter- and beef-production; and sheep-breeders for increased production of wool. So it is with corn-breeding. We have come to learn that bushels of grain per acre is of far more importance than straight-rowed ears well-covered with kernels at the extremities. Happily for the corn-breeder, desirable qualities such as length and shape of kernel, color, and chemical composition can be improved at the same time that corn is being bred for increased production, but it must always be borne in mind that bushels of good grain per acre are of far more importance than any other qualities.

With scientific investigators and experiment-station men there is a strong tendency to spend much time at not-taking and the following of interesting experiments. The corn plant furnishes many interesting lines of investigations that are apt to detract one from the main line of importance, namely, the production of a uniform productive strain of corn. Much more credit is due to such men as James L. Reid and James Riley, who have built a monument to themselves in the production of the strains of corn which bear their names, than to those who have published theories regarding the best means of corn improvement. It is the

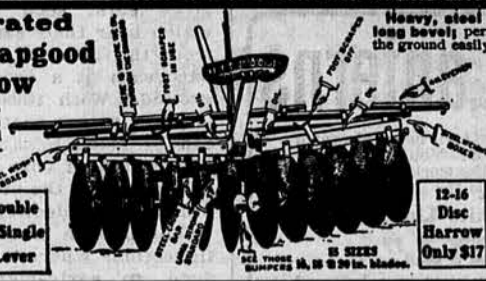
production of the valuable article that the world wants.

Among plant-breeders the principal use to which hybridization can be put is for the purpose of increasing variation. With corn this is unnecessary. Corn is so naturally cross-fertilized that it requires the attention of the corn-breeder to prevent rather than encourage hybridization. The work of the State experiment stations and the Department of Agriculture demonstrates that much more can be accomplished by the systematic selection of a strain of corn that has shown merit than through hybridization. In regard to corn-breeding, the greatest need of the country is the formation of uniform and highly productive strains suited to various geographic sections. This can best be accomplished by encouraging the careful corn-growers in the various sections to begin systematic seed-selection with the strain that is now giving best results. At present there are but a few sections of the United States that are supplied with sources from which well-bred seed of a uniform productive strain of corn can be obtained. While much credit is due to the originators of the score-card and conductors of corn-judging contests, the time has arrived when all are aware that these visible characters are not of as much importance as the power to produce well. It is not that less attention should be given to the ear, but more attention should be given to the stalk and to the power of the seed ear to produce a large crop. This power of producing well can be called an invisible character since it is impossible to determine by the appearance of an ear its power to produce well. Of two ears so similar that one can scarcely be distinguished from the other, one may possess the power when planted of producing twice as much corn as the other. This power of production can be determined only by planting tests. As it is quite essential that we plant in our breeding plan none but ears of high-producing power, it is advisable that a portion of the kernels of a large number of desirable ears be tested one season, retaining the balance of the ears so that the best and only the best may be planted in a breeding plat the next year. By this means the breeding plat will be planted with no seed except that from ears of high-producing power. If such a test of the ears is not made before they are planted in the breeding plat, the breeding plat will be planted with seed of ears of low-producing power, and of course pollen from the corn rows planted with seed of such ears will exert its detrimental influence upon the seed formed.

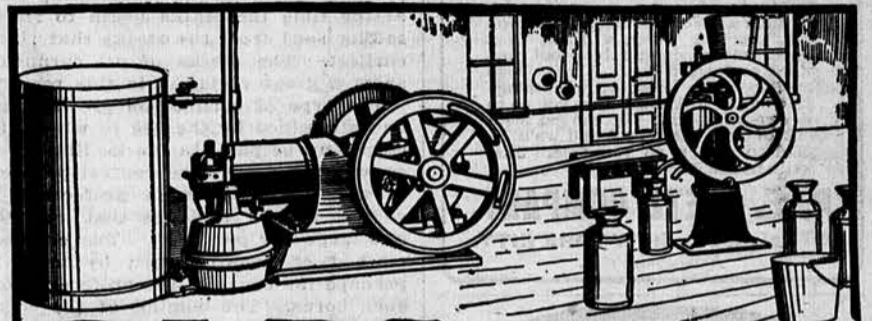
While it is not advisable for us to suggest that all corn-breeders follow one and the same definite plan, there are certain laws that should be borne in mind. Great improvement in the strain of corn can be produced without the detasseling of stalks, but with the light we now have upon the subject, it is quite certain that much more rapid advancement can be made by detasseling certain rows or portions of all the rows in the breeding plat. Self-fertilized seed is very much less productive than seed ears that have been fertilized from pollen of other stalks. Naturally but little self-fertilization occurs in a corn field. In some instances more and in others less, but it is certain that it will be prevented if the tassels are removed before pollen is discharged. Recent experiments conducted in the Department of Agriculture demonstrate that pollen from suckers possesses the same quality as the pollen from the stalks upon which the suckers grew. It has also been demonstrated that seed taken from stalks bearing suckers will produce a crop bearing a much greater number of suckers than if the seed be taken from stalks that have no suckers. In the light of these experiments it is advisable to detassel stalks that produce many suckers as well as to detassel the suckers themselves. By the selection of seed ears from stalks without suckers, it is possible within a few years' time to produce a strain of corn that will sucker but little; in fact we have found no exception to the rule that "like begets like." There may occur some apparent exceptions, such as the case of seed being taken from large stalks grown under specially good circumstances and planted in unfavorable locations. In such a case the progeny will not be large like the parent. In selecting seed one must have constantly in mind the old adage "like begets like," and select seed-ears from stalks having desirable characters. Seed taken from stalks bearing large ears have a strong tendency to produce a crop of

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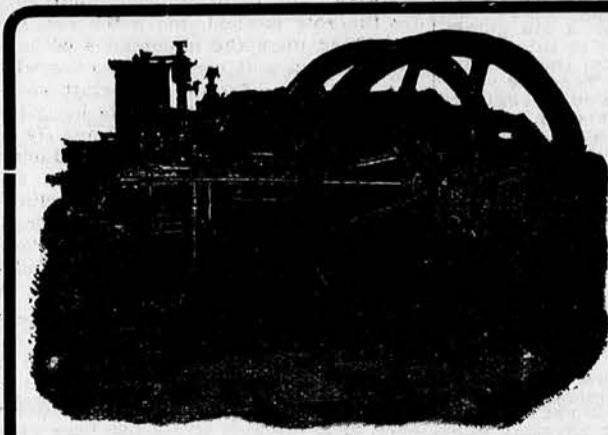
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Benedict, Kans., August 26, 1905. I have this day sold my interest in K. C. Dailey & Co. to T. C. Davis, who will hereafter conduct the business in his name. Signed, K. C. DAILEY.

PATENTS.

J. A. ROSEN, PATENT ATTORNEY
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large ears; seed taken from stalks which bear their ears at a great height from the ground will produce stalks with ears at a great height from the ground. With these facts in mind, it is plain to see that but little progress can be made toward the improvement of a strain of corn unless the seed be selected from the standing stalks. The practice of selecting seed-ears from a wagon or crib is not the best possible. In sections where it is desirable to produce an early-maturing corn, rapid progress can be made by selecting seed at the time the stalks begin to ripen, taking seed from the stalks that ripen earliest. The stalks of all cornfields show a great variation in this respect.

The type of corn to be grown must be determined by the use to which the corn is to be put. In the leading corn-growing States of the central portions of the United States a preference is shown toward varieties that produce one large ear per stalk. The common method of husking corn by hand is perhaps the cause of the preference for such corns. The coming of the corn-shredder and husking-machines may produce a change in this respect. It has been demonstrated by tests at some of the State experiment stations that there is a correlation between production and the number of ears per stalk. The prolific strains or those producing several ears per stalk usually produce better than strains bearing but one ear per stalk. In breeding corns that produce several ears per stalk, there is reason for but little choice among the ears produced by a stalk. Tests made by the Department of upper ears, middle ears, and lower ears show that when the parentage is the same, there is practically no difference in the producing powers of the ears. In other words, when upper, middle, and lower ears of a stalk are pollinated with pollen from one stalk, the producing power of the three ears is found to be practically the same.

Farmers are often heard to say that they have been growing the same corn too long, that it is "running out," or has "run out," and that it is necessary for them to get a change of seed. This is an erroneous idea demonstrated by the fact that the very best strains of corn now in existence are those that have been bred for the greatest lengths of time in certain sections of the country. It is not to be denied that a strain of corn may run out or deteriorate in quality and production; in fact, this is exactly what has occurred on a great many farms, but the running out is not due to the fact that a particular strain has been grown too long upon a given farm, but is due to the lack of attention given to seed selection. Just as a herd of dairy cattle of high butter-producing power may deteriorate or run out under injudicious care, so also may a strain of corn. By judicious selection a strain of corn can be grown indefinitely on the same farm and each year be improved.

It is not an easy matter to produce a valuable strain of corn, but the fact that it has been done in several sections of the United States is strong evidence that it can be done in other sections. It is a labor that is worthy of the highest commendation, and one that should prove profitable to the party producing the strain of corn, and will certainly be of much benefit to his neighbor corn-growers. In planting individual ears by the row method, too much can not be placed upon the importance of having uniform soil conditions; otherwise the greater production of certain seed-ears may be due to favorable locations rather than to their inherent quality to produce well. The secret of producing a valuable strain of corn lies in the practice of planting in the breeding-plot seed from ears descending from ancestors of high-producing powers, and themselves the quality of transmitting power of great production.

It is too often the case that farmers of a certain section of the country all wait for some one else to improve a strain of corn for their section rather than assume the duty. As soon, however, as a valuable strain has been produced, all corn-growers are anxious to obtain seed of it, and many are not willing to pay a reasonable price for such seed. Some have been known to offer to trade with their neighbor a certain number of bushels of corn for an equal number of bushels of seed of the valuable strain of corn. This is not justice to the one who has taken the pains to produce the valuable strain. Well-bred seed-corn is worth three or four dollars per bushel to the man who takes proper pains in growing, harvesting, and caring for it, and it is worth four or five times as much to any farmer for planting-purposes rather

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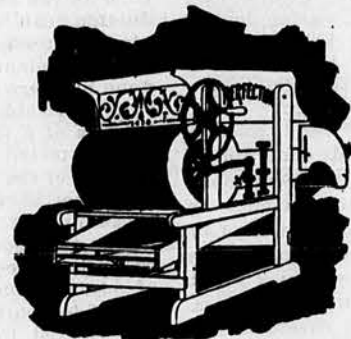
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than plant corn that has received no attention in regard to seed selection or preservation.

A word of advice might be in order to all of those who are attempting to produce a valuable strain of corn. It is advisable each year to retain a supply of good seed to guard against the loss of the strain from hail-storms, floods, insect depredations, or other calamities. In addition to this reserve, which should be retained from year to year as progress is made, it is advisable to retain sufficient seed for planting the breeding-plot a second time in case floods or other accidents should destroy the first planting. Instances are known where valuable strains of seed have been irrecoverably lost by not taking these precautions.

Many different methods of testing the germinating powers of individual seed-ears have been described, all of which possess considerable merit. It is undoubtedly true that the careless way in which the majority of seed is gathered and preserved makes it highly advisable that the germinating power of the ears be tested before the seed is planted in the field. Such germinating tests often save much labor, and result in a great increase in production of corn; but let us begin earlier with our labor and thus avoid the necessity of testing seed-corn. An instance has never yet been met with in which ears that matured properly, and were properly harvested and preserved did not germinate well. It is, therefore, much wiser to give attention to the timely selection of seed and its proper preservation than to separate by germination tests ears of good germinating quality from a supply of corn that has not been properly preserved. Even though ears that germinate well be obtained from such a supply, it is certain that the vigor and producing power of such ears has been decreased by the influences which injured the germinating power of the other ears.

The most important feature in regard to the care of seed-corn is the matter of drying it thoroughly and quickly soon after it matures. The seed should not be subjected to a freezing temperature until it has been thoroughly dried, and it must not be supposed that seed that has been once dried will necessarily remain so. If subjected to a damp atmosphere, the kernels absorb moisture, and will then be greatly injured by freezing weather.

Corn kernels that contain more than 15 per cent of moisture will be greatly injured, if indeed their germinating power is not entirely destroyed, by being subjected to several freezes and thaws. The best treatment for seed-corn after it is gathered is to dry it quite rapidly and then place it in a situation where it will remain dry and at quite a uniform temperature. Sudden changes in temperature are quite destructive to seed, and especially so if the seed contains considerable moisture.

Grass for Pasture.

I have ten acres in one corner of my pasture that I would like to sow to some kind of grass for pasture and would very much like information in regard to the kind of grass to sow and the proper method of preparing the soil. It has been growing corn, oats, and wheat, wheat being the last crop. The soil is a black, somewhat clayey loam and is in very good condition. What kind of grass would make the best pasture for milch cows in this part of the State? When would be the proper time to sow, and where can I purchase the seed to insure getting pure seed? RAY MITCHELL, Reno County.

I would recommend that you seed a combination of Bromus inermis and English blue-grass, say about 12 pounds of each of the grasses per acre. It is always preferable to sow some perennial legume with grasses, such as clover or alfalfa. On bottom-land in Reno County, red or Alsike clover might be sown with the grasses, or on upland alfalfa is more apt to grow successfully. There is some danger in pasturing a combination of alfalfa with the grasses named but the danger is not nearly so great as from pasturing the alfalfa alone. If clover or alfalfa is sown with the grasses, sow two pounds less of grass-seed of each of the varieties named and 3 or 4 pounds of clover, 4 or 5 pounds of alfalfa seed per acre. Sow either early in the spring or early in the fall, taking care to prepare a firm, well-pulverized seed-bed. I have mailed you copies of press bulletins 125 and 129, giving information in regard to the seeding of the grasses named. A. M. TENBYCK.

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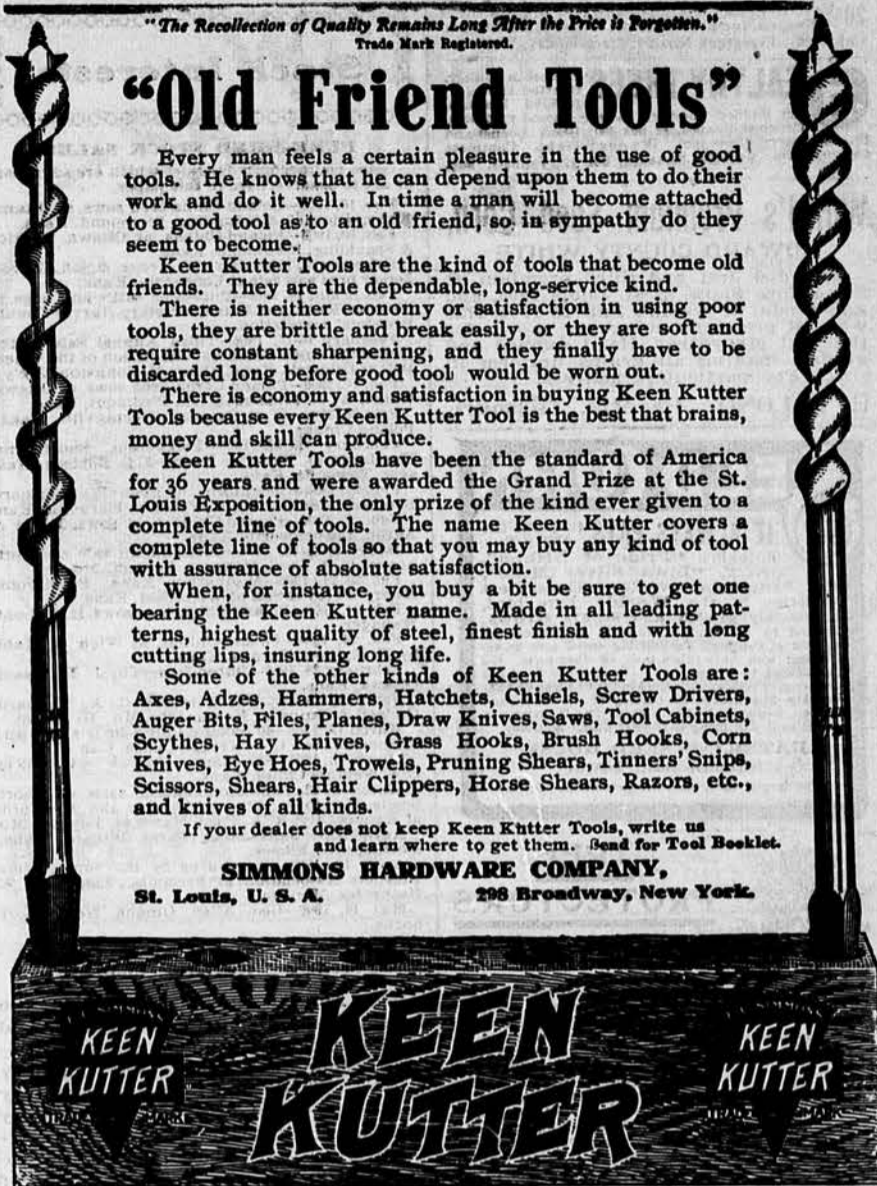
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Construction. Advance Fence has the continuous stay. Our stay is not cut at the top or bottom, or anywhere else, but runs continuously up and down across the fence and without an end for many rods. Thus, we preserve and utilize all the strength of the wire used, about half of which is wasted in fences with cut stays. Our fence has the most perfect provision for expansion and contraction, caused by changes in temperature. It can be stretched over uneven ground without the slightest difficulty.



Buy Fence Direct from the factory. It is cheaper, and so much more convenient. We offer a line to select from several times as large as that carried by the best dealers—26 styles and heights of fence and 24 styles and sizes of gates, besides stretchers, etc. This enables you to get a fence exactly suited to your requirements, which alone may effect quite a saving for you.

Thirty Days Free Trial. Place your order with us for what fence you need and try it. If you do not like it, and it is not just as represented in every particular, you can return it to us at our expense, and we will return your money. That's what we call a fair proposition. We could not make it, if we were not sure Advance Fence would please you.

We Prepay Freight to any steam railroad station in the United States, on 40 rods or more. Thus you know beforehand just what your order will cost you delivered at your door. We guarantee the safe delivery of your shipment by the railroad company.

Write today for our Free Fence Book and Wholesale Delivered Prices.

Advance Fence Co., 3769 Old St., Peoria, Ill.

GET THE BEST—TOWERS' SURFACE CULTIVATORS
for—corn, kafir-corn, cotton, tobacco, sorghum, potatoes, beets and other vegetables.

THREE SIZES: for two rows or one row—three horses, two horses or one horse.

"We got 49,500 cases more corn from our 3,300 acres than ever before under best conditions. Would not attempt to farm without Towers' Cultivators. IROQUOIS CANNING CO., Onarga, Ill."

Free Treatise on Surface Cultivation. Introductory prices where we have no agents.

J. D. TOWER & SONS CO., 14th St., MENDOTA, ILL.

20 Evergreens—10 kinds—and how to grow them delivered, for 25 c stamps. Order them at once Cat. free. Evergreen Nursery, Sturgeon Bay, Wis.

HEALTHY TREES Honest in quality. Grafted Apples for Budded Peaches, 4c; Budded Cherries, 15c each; good varieties. Concord Grapes, \$2 per 100; Black Locust and Run Mulberry, \$1 per 1000. We pay freight. Complete catalog free. Salisbury Nurseries, Box 22, Fairbury, Neb.

World's Premium Seed Corn, HOWARD COUNTY WHITE

Awarded first and third premium at State Corn Show in St. Louis 1904, and gold medal at World's Fair in 1904. Has won all premiums wherever shown for the past six years. Hand nubbed and graded, making all grains uniform in size. For particulars address,

E. T. LONG, Fayette, Missouri.

SEED CORN

IT ALWAYS PAYS to plant the **BEST** Ratekin's "Fride of Nishna", yellow, "Iowa Silver Mine", and "Imperial" white; Three Best varieties in the World; Pure bred, thoroughly graded and always grows. Flanted by thousands of farmers everywhere for quarter of Century. Earliest big eared corn in existence; won more prizes than all other sorts. It's guaranteed to please you. Change your Seed and grow bigger yields: it's the kind that PAYS to PLANT. Our big fine illustrated Catalog of all Farm and Garden Seeds is FREE. Write for it today; a postal card will bring it to your door. Address:

RATEKIN'S SEED HOUSE, Shenandoah, Iowa.
(The largest Corn Seed Growers in the World.)

TREE PROTECTORS

75 cents per 100
\$5 per 1,000

As valuable in summer against sun-scaid, hot winds, etc., as they are in winter against cold and rabbits. Recommended by all leading Orchardists and Horticultural Societies. Send for samples and testimonials. Do not wait until rabbits and mice ruin your trees. Write us today. Wholesale Nursery Catalogue now ready. Send for copy. Agents wanted everywhere.

HART PIONEER NURSERIES
Box 17, FORT SCOTT, KANS.

50 BULBS
25 Cents.

Will grow in the house or out of doors. Hyacinths, Tulips, Gladiolus, Crocus, Fuchsias, Oxalis, Tuberoses, Begonia, Jonquilla, Daffodils, Chinese Lily, Dewey Lily, Gloxinia, Lilies of the Valley—all postpaid, 25c. in stamps or coin. As a premium with these Bulbs we will send FREE a big collection of flower seeds—over 200 kinds.

HILLSIDE NURSERY, SOMERVILLE, MASS.

The World's Fair Prize Winning Corn
Just WON FIRST PREMIUM at the Corn Breeders State Show at Manhattan, also first on Farmers Int. White and second on Boone Co. White. Sample and catalog tells how to raise Corn every year FREE.

John D. Ziller, Hiawatha, Kansas.
HE RAISES CORN.

GOLDEN YELLOW CALLA LILY 5 Bulbs.
50 KINDS FLOWER SEEDS 10c.

Asters, Balsam, Canna, Calliopsis, Nasturtium, Morning Glory, Pansy, Larkspur, Jobs Tears, Poppy, Golden Glow, Snapdragon, Cosmos, Pink Zinnia, Verbena, Monkey Plant, Sweet Rocket, Primrose, Ice Plant, Petunia, Castor Oil Beans, Fortinaca, Candytuft, Sweet Peas.

5 CHAMPION BULBS.
The Summer Hyacinth, Golden Lily, Humming Bird, Gladiolus, Giant Tuberoses, Baby Breath Oxalis, all this beautiful collection of seeds and bulbs only 10c. in silver or 5 c. stamps to pay the cost for packing and postage. Order quick and be sure of this grand offer—only 10 cents.

CHARLESTOWN NURSERY, - CHARLESTOWN, MASS.

High-Grade Flower Seeds.
20 Packages 10c.

FOR 10c.

Bat. Button, 10	Poppy, 18	Portulaca, 20
10-Weeks Stock, 6	Candytuft, 10	Marigold, 18
Eachesoltzia, 6	Aster, 16	Pansy, 10
Sweet Alyssum, 8	Zinnia, 12	Sweet Peas, 10
Sweet William, 8	Balsam, 12	Pinks, 10
	Larkspur, 6	Petunia, 10
	Nasturtium, 10	Calliopsis, 8
		Sweet Mignonette, 8

All of the above sent to any address, post-paid, for 10c.—silver or six two-cent stamps. As a premium and to introduce our seeds into every household, we will also send a collection of five beautiful bulbs FREE with Catalogue.

Somerville Nursery, SOMERVILLE, MASS.

Stock Interests

PURE-BRED STOCK SALES.
Dates claimed only for sales which are advertised or are to be advertised in this paper.

Feb. 10, 1906—Poland-China bred sows, at Ottawa, Kans., Dietrich & Spaulding, Richmond, Kans.
Feb. 10, 1906—Poland-Chinas, at Ottawa, Dietrich & Spaulding, Richmond, Kans.
February 15, 1906—Jno. W. Jones & Son, Duroc-Jersey bred sow sale at Concordia, Kans.
Feb. 13 and 14, 1906—Pure-bred cattle and hogs, at Newton, Kans., Dr. Axtell, Secretary Harvey County Breeders' Association.
February 15-17, 1906—Third Annual Sale of the Improved Stock Breeders Association of the Wheat Belt at Caldwell, Kans., Chas. M. Johnston, Sec'y.
Feb. 19, 1906—Poland-China bred sows, at Ottawa, Kans., W. N. Messick & Son, Piedmont, Kans.
Feb. 20, 1906—M. S. Babcock, Nortonville, Kans., Poland-Chinas.
February 21-23, 1906—Percherons, Shorthorns, Herefords at Wichita, Kans. J. C. Robison, Manager, Towanda, Kans.
Feb. 22, 1906—Shorthorns, by Plainville Shorthorn Breeders' Association, N. F. Shaw, Plainville, Kan.
Feb. 22, 1906—Poland-China bred sows, Bolin & Aaron, Leavenworth, Kans.
March 20-21-22, 1906—Combination sale of Shorthorns, R. A. Ford, Manager, Lawson, Mo.
Feb. 23-24, 1906—Manhattan, Kans., Percherons, Henry Avery & Son of Wakefield, Kans.
Feb. 24, 1906—Poland-China bred sows, H. E. Lunt, Manager.
Feb. 24, 1906—Poland-Chinas, at Wich a, Kans by H. E. Lunt, Burden, Kans.
February 25, 1906—Duroc-Jerseys by J. F. Staadt, Ottawa, Kans.
February 28 and March 1, 1906—C. A. Tannard, Gudge & Simpson, Kansas City, Mo. Herefords.
March 13, 1906—40 Poland-China bred sows, and 45 Shorthorns, C. S. Nevius, Chiles, Ia.
March 18, 1906—Shorthorns and Poland-Chinas by C. S. Nevius, Chiles, Kans.
March 20-22, 1906—Combination sales of Shorthorns, Herefords, Aberdeen-Angus and Herefords at Kansas City; E. A. Ford, Manager, Lawson, Mo.
April 3, 1906—James Stock Farm, Willard, Kans., trotting bred horses.
April 18, 1906—Shorthorns by the Southeastern Breeders Association at Fredonia, Kans. H. E. Becheider, Manager.
May 16, 1906—Geo. Allen, Omaha, Neb., Shorthorns.

Percheron Registry Company.

The regular annual meeting of the Percheron Registry Company was held at the office of the company, 1319 Wesley avenue, Columbus, Ohio, January 9, 1906. The report of the secretary and treasurer shows that the company is in a very flourishing condition. After paying for the publication of the Stud Book, and the largest amount of special prizes ever paid in a single year by any horse breeding association, the balance on hand, deposited in the Citizens' Savings Bank, Columbus, O., amounts to \$2,111.58, showing that the company is financially in a very healthy condition. The same directors and officers were elected to serve for another year.

A part of the secretary's report is as follows: "This company has received the hearty support of the importers and breeders of Percheron horses in this country and, from the present outlook, a still better showing should be made at our next annual meeting. This company is recording at least 85 per cent of the imported Percherons in this country and the number of American-bred animals recorded is increasing at a very rapid rate. While no figures have been taken, we believe that the American-bred animals have increased fully 150 per cent over the previous year."

On account of the fact that our finances are in such a prosperous condition, we thought that it would be possible for us to reduce the fees for registration; consequently, the fee for registering home-bred animals was reduced from \$3 to \$2 for members, a marked saving. Non-members can register home-bred animals for \$3 each.

The Percheron Registry Company is the only organization of the kind that confines its registrations solely to pure-bred Percherons. It is recognized by the United States Government as an authority.

The aim of The Percheron Registry Company is to serve the breeders of Percheron horses in the very best manner possible, to do the business of recording Percheron horses and issuing certificates of registration with the greatest degree of accuracy, punctuality and economy.

CHAS. C. GLENN,
Columbus, O. Secretary.

The Central Shorthorn Breeders' Association.

The ninth annual meeting of the Central Shorthorn Breeders' Association will be held at the Millard Hotel, Omaha, Neb., on Tuesday and Wednesday, February 6 and 7, 1906. A large attendance of Shorthorn breeders and those interested in the improvement of live stock is desired.

When purchasing a railroad ticket be sure to take a receipt from the agent and you can return at one-fifth fare. The following interesting program is provided:
Tuesday, February 6, 1906, 10 a. m.
Address of Welcome—John Fitz Roberts.
Response—Col. George P. Bellows.

FOR EMERGENCIES AT HOME
And for the Stock on the Farm
NOTHING EQUALS

SLOAN'S LINIMENT

The Great Antiseptic
Price, 25c., 50c. and \$1.00.

Dr. EARL S. SLOAN,
615 Albany St., Boston, Mass.



The Object of a Pedigree—A. C. Shellenbarger.
The Value of a Sire—W. S. Robbins.
A Peep from the Watch Tower—Col. W. A. Harris.
Good Feeding an Adjunct to Good Breeding—C. D. Bellows.
At 7 p. m. the convention will be entertained at a dinner provided by the courtesy of the Live Stock Exchange and the Commercial Club.
Wednesday, February 7, 1906.
Reflections—A. H. Sanders.
Needed Improvements—Hon. T. J. Wornall.
The Shorthorn as a Dairy Cow—Prof. A. L. Haacker.
Fellowship, a Factor in Business Relations—S. C. Hanna.
Reports of Secretary and Treasurer.
Election of officers.

More About Dawley's Brood Sows.
F. A. Dawley, Waldo, writes: "Fellow Breeders: Last week I made mention of some of the special attractions but there are others; and among them are a pair of Chief Perfection 2d sows that are fine and showing up nicely for March litters by E. L. 2d. There will be four or five by Grand Chief and Skybo, all bred by F. M. Lall, that are great. The way this breed has been selling I think these will attract some attention. One is a full sister to my great young boar, Grand Perfection, and another a full sister to Ophelia; another is by Skybo and out of Simply Grand, the dam of Grand Chief. She is safe for a March litter. Woodbury will come in for some of the extra good ones and this will be about your last chance to get choice Woodbury sows, for they are not going into the market. First Choice is out of J. T. Paynter's great sow, Beauty Perfection, that topped my February 2, 1904, sale at \$120. Another is out of Porous Plaster; another out of Little Porous; another out of Miss Fuller, and every one safe for early litters."

"There are some mighty good ones by Perfection Profit and especially one each out of Gwendoline and Lady Axline. The line of tried sows I am offering are great as producers as well as individuals. Hadley's 2d by Eclipse Model is a great producer and from a line of brood sows from way back. One of the best boars produced at Elm Grove in 1904 was out of this sow and Sunflower Perfection and went to the head of E. A. Kramer's good herd at Plainville. Hulda's Sister by Axline's Syllish Perfection is certainly a good one; she farrowed and raised eight cracker jacks by Choice Chief, her first litter, and is safe for early March to E. L. 2d. Mary Wilkes by U. S. Chief Perfection, a full brother in blood to Chief Perfection 2d, is a plum and safe to Nonpareil, the Missouri weepstaker of 1904, as is Keep Me Too by Highroller, Belle, by Perfect Success and Topsy, by Highroller. Watch these sows bred to Nonpareil. The sows by Smooth Tecumseh, D.'s Ideal Sunshine, and Faultless Over Chief are showing up nicely to that great yearling, Admiral Togo, Little Porous, a litter sister to Sunflower Perfection, Ideal Perfection, and the \$120 Beauty Perfection, is an attraction indeed and safe for March 4th litter by Admiral Togo. There are others, but the catalogue will tell it all; and remember that there are a few open gilts by Nonpareil and also a few young boars that are herd-headers. Come to the sale and be my guest."

J. F. Stodder's Annual Shorthorn Sale.

On February 22, one of the leading Shorthorn sales of the West will be held at Wichita, Kans., and it is the fifth annual sale from the Silver Creek Herd which is owned by J. F. Stodder, Burden, Cowley County, Kans. Much care has been taken to select animals that will measure up to Mr. Stodder's idea of what a good Shorthorn should be.

Consignments are also made from the Palo Duro Herd belonging to S. C. Hanna, Howard, Kans., and Marshall Bors' herd at Burden, Kans. It is expected that the offering as a whole will exceed in quality anything that has been offered heretofore at Wichita. Mr. Stodder will sell a number of his show herd, including the well-known Scotch 2-year-old heifer, Ceres, by Imported Aylesbury Duke. This sale will be the place to buy both Scotch bulls and females as well as the Scotch-topped kind. The catalogue contains the pedigrees of 18 bulls and 32 females. Do not forget the time and the place—Wichita, Kans., February 22, 1906. Catalogues can now be had by addressing J. F. Stodder at Burden, Cowley County, Kansas.

The Lincoln Importing Horse Company.

Mr. A. L. Sullivan, manager of the Lincoln Importing Horse Co., Lincoln, Neb., writes: "We are having a good business; have made a number of good sales and have a large number of excellent stallions on hand. As for size, soundness, and health they are unexcelled. We landed our last importation on September 25, and have given them large, roomy, box-stalls and a great amount of out-

REAL SEED CORN

Graded or crated and shipped on approval, guaranteed to suit or money back. Bred from prize-winning stock. Catalog free. Sample seeds free if you pay postage. Henry Field, Seedman, Box 55, Shenandoah, Ia.



Buy Your Trees Direct

WHOLESALE and save agents' commission of 40 per cent. **PRICES** We have direct connections with all points in Kansas, Missouri and the Southwest, and deliver all orders promptly and in good condition. Our stock is "True to name" and especially adapted to these localities. Write for wholesale price list. **Wichita Nursery, Box B, Wichita, Kansas.**

Iowa Produces the Best SEED CORN

and Southwestern Iowa produces the best seed corn in the State. Every grain from which our seed is grown is carefully selected by us, and the cultivation of the crop is carried on by a member of our firm. We raise every grain of seed corn we sell, and we make it as perfect as it can be made. Write us for prices. **W. W. VANSANT & SONS, Box 54, Farragut, Iowa**

GINSENG is a money-making crop. Room in your garden to grow hundreds of dollars worth annually. Thrives throughout the United States and Canada. We sell roots and seed during spring and fall planting seasons and buy the dried product. You can get started in this profitable business for a small outlay. Send 2c stamp to-day for illustrated literature telling all about it.

THE ST. LOUIS GINSENG CO.
St. Louis, Mo.

VICK'S GARDEN AND FLORAL GUIDE

Ten cents brings you one packet Vick's Branching Aster mixed, our 1906 Catalogue, and a coupon good for 20 cents on first order of \$1.00. Vick Quality stands out in our new Violet King and Mikado Asters both offered for the first time. Send for the Guide anyway; it is free.

Jas. Vick's Sons, 425 Main St. Rochester, N.Y.



Your Crops Will Be Money Makers

If you sow our Hardy and Reliable Northern Grown Seeds. We are growers of new and improved varieties of Seed Grain, Seed Corn, Seed Potatoes and of pure and hardy strains of Vegetable Seeds. Our stock of high grade Timothy, Clover Seed, Turkestan Alfalfa, Dwarf Essex Rape, etc., is the most complete. Clover-Grass Mixtures for Permanent Pastures and Meadows are our specialty. Also Hardy Small Fruit Plants and Ornamental Shrubs. Reasonable prices. Best railroad connections. Special Seed rate to the Northwest.

Large Illustrated Catalog Free.
Farmer Seed Company, Fairbault, Minn. 34-4th Street.



Try the New Majestic Tomato

The greatest vegetable novelty of the season. By all odds the largest, finest flavored and most productive in existence. Thousands of our customers have written us that it surpassed all other sorts and produced 10 lbs. to 147 lbs. of fruit to the plant. Many reported single tomatoes, weighing 3 lbs. to 6 1/2 lbs. each. Just think what this kind of a crop would mean on an acre of ground. The fruits are not coarse grained and poor like other large sorts, but are smooth, solid, have few seeds, and are unsurpassed in quality. Of fine shape and beautiful color. The first season the seed sold at 40c a packet of 100 seeds, but this season we have reduced price to 15 cents, and in addition to this we are offering

\$100.00 in Cash prizes this year on them. Our large illustrated catalog describing the above and many other choice novelties will be sent free if you mention this paper.

IOWA SEED CO., Des Moines, Iowa.



The Government of Canada
Gives absolutely **FREE**
to every settler
160 Acres of Land in
Western
Canada



Land adjoining this can be purchased from railway and land companies at from \$5 to \$10 per acre.
On this land this year has been produced upwards of twenty-five bushels of wheat to the acre.
It is also the best of grazing land and for mixed farming it has no superior on the continent.
Splendid climate, low taxes, railways convenient, schools and churches close at hand.
Write for "20th Century Canada" and low railway rates to Superintendent of Immigration, Ottawa, Can.; or to the following authorized Canadian Government Agent
J. S. CRAWFORD, 125 W. 9th Street, KANSAS CITY, MO.
Mention this paper

TREES THAT ARE CHEAP in price and of the best quality, free from disease and true to name. Complete assortment. Due bill good for 100 and catalogue free. Freight paid on \$10 orders.
FAIRBURY NURSERIES, Box 1, Fairbury, Neb.

FRUITFUL TREES MILLIONS OF FRUIT AND FOREST TREES
Small Fruits and Evergreens. Russian Mulberry and Black Locust, \$1.00 per 1000. Carefully dug and packed. Freight prepaid on \$10.00 orders. Catalogue free. Fine trees guaranteed.
Gage County Nurseries, Box 609, Beatrice, Neb.

SEED CORN
Boone County White, Farmers' Interest, Reid's Yellow Dent, Improved Leaming and Riley's Favorite, best pedigree and tested seed, grown on my own farms, \$1.50 per bu. Sacks free. Delivered on car for any station in the United States.
J. C. ANDRAS, Jr.
Manchester, Illinois

Trees, Plants & Seeds THAT GROW
Best quality, Good bearing, Low prices. Apple, very cheap. 40; Plum and Cherry, 12c; Peach 40c; all buds; Concord Grapes, 20c; Forest Trees, 10c. Write for it today. Address **GERMAN NURSERIES, Carl Sonderesser, Prop., Box 9, Beatrice, Neb.**

HARDY EVERGREENS
12 FREE
We grow them by the million. To prove they are healthy and vigorous we offer 12 Spruces and Pines 3 years old FREE to property owners. Mailing expense 5c, which seed or soil. A postcard will bring them. Catalogue with 43 colored plates of Hardy Plants etc., free. Write today.
The Gardner Nursery Company, Box 740, Osage, Ia.

GOOD SEEDS CHEAP
BEST EVER GROWN
A wonderful big catalog FREE Full of engravings of every variety, with prices lower than other dealers. The book is worth a dollar to any one who plants seeds.
Big Lot of Extra Packages Free to Every Customer.
Send yours and neighbors address.
R. H. Shumway, Rockford, Illinois.

ALFALFA SEED WANTED
The Botanical Department, Kansas Experiment Station, desires a large number of samples of alfalfa seed for analysis. Every seedsman, and person who has a field of alfalfa, no matter how small, is requested to send a sample of his seed from the present year's crop, not less than two ounces, nor more than one-half pint in quantity, taken from the seed as it runs in bulk, to the address of the Botanical Department, Kansas Experiment Station, Manhattan, Kansas. On receipt of such sample, the cost of shipment, in postage, will be returned to the sender. As samples are desired from all parts of the United States, it is requested that other agricultural papers copy this notice.
H. F. ROBERTS,
Botanist, Kansas Experiment Station, Manhattan, Kans.

Collections made in all parts of the United States No fee charged unless Collection is made
BOTH PHONES No. 1577
The Kansas Collection Agency
415 Kansas Avenue. KANSAS
TOPEKA.
Special attention given to stock-breeders accounts. Reference furnished on application.

E. G. KINLEY, Topeka, Kans.
Manufacturer of and Dealer in CARRIAGES, BUSINESS WAGONS, &c. Buggy Tops Wholesale and Retail. Special Prices on Spring Wagons. Order Work, Repairing, and Rubber Tires.
Repository, 116 West Fifth Street. Factory, 424-428 Jackson Street. Ind. Phone 699.

door exercise. We have many 2-year-old's, coming three, in only good ordinary flesh that will weigh 1,800 and over and some 3-year-old's that are tipping the scales above 2,000. This is, in good, ordinary flesh. Our plan (as it always has been) is to sell at our barns, giving buyers an opportunity to choose from a large number, and our prices are very low. We own our own plant, so have no rent to pay, and employ no salaried salesmen. Come and see us and if all is not found true, we will pay, your expenses." Notice change in their advertisement.

The C. W. Taylor Shorthorns.
The Kansas Farmer has just received a private catalogue of Shorthorn cattle owned and for sale by C. W. Taylor, Pearl, Kans., that reads like a poem. With Baron Ury 2d 124970, Sunflower Boy 127337, Bold Knight 179054, La fitte 119915, Imp. Royal Pride 149651, Golden Prince 207182, and Golden Knight 2d 141287 as herd-headers and a female herd as richly bred, Mr. Taylor has raised a fine lot of calves that he now offers either singly or in car lots. This herd has been one of the noted herds in Kansas for many years and the breeding shown by this catalogue, together with Mr. Taylor's well-known skill as a feeder, tells the reason. Drop a card to C. W. Taylor, Route 2, Enterprise, Kans., and he will send you one of these catalogues free if you mention the Kansas Farmer.

Gossip About Stock.
J. F. Stadt's Duroc-Jersey sale at Ottawa, Kans., on February 28, 1906, will interest all good breeders of the popular reds. Mr. Stadt has a line of breeding that will interest any one wanting the good kind. Write him for catalogue.

R. F. Norton & Son, owners of the Orchard Hill herd of Duroc-Jersey swine, Clay Center, Kans., have recently purchased a new herd-header, sired by Tip Top Notcher 20729. Write them for their new private sale catalogue of young boars and bred gilts and sows.

Hon. John W. Creech, of Herington, Kans., will hold a horse sale at his stock farm during the early part of March. He will, at this time, offer many high-bred 2- and 3-year-old colts sired by Escobar and other high-bred stallions. Watch for his advertisement in this paper, also send for his catalogue.

Bollin & Aaron will hold their brood-sow sale at Leavenworth, February 22. Besides sows bred to Picket Sir Darkness and the other good boars which have been in use in these herds, will be a number bred to the great old sire and prize-winner Nema L's Dude. Write them at once for catalogue.

Orders are coming in rapidly for Prof. H. R. Smith's great book, "Profitable Stock Feeding." The Kansas Farmer has just received 100 copies of this book and can now supply its patrons promptly. Read the advertisement on page 142 and send in your order. It is worth the money.

The advance sheets for the W. N. Messick & Son sale are at hand and as we predicted are full of Poland-China history. All lovers of the best in Poland-Chinas will be interested in this event. Send for the catalogue at once, you will enjoy reading it and will then want to attend the sale, which will be held at Ottawa, February 19, 1906.

Robt. H. Hazlett consigns 4 extra bulls, 12 to 14 months old, to the Wichita sale of well-bred choice individuals. The heifers selected for this sale will in part be bred to Beau Brummell 10th, one of the very best of all the great Beau Brummell bulls. This sale event certainly gives promise to surpass any sale heretofore held under this management.

On St. Valentine's Day, February 14, there will be a handsome sale of Duroc-Jersey bred sows and gilts at Abilene, Kans., by Chas. G. Carothers. The offering includes 35 head of females and two boars, one quite an attraction, the herd boar Shamrock 20569, the sweepstakes winner at the American Royal in 1904. The sows are bred to him and the gilts sired by him.

T. A. Hubbard, owner of the Rome Park Herd of Poland-Chinas and English Berkshires, one of the best combined herds in America, will sell select animals of each breed in the Caldwell sale, February 17. Write Mr. Hubbard in regard to his offering, or those he offers at private treaty, or call on him at county treasurer's office, Wellington, where you will always receive the glad hand.

Remember the good herd boars to be offered in the Jean Calham sale at Atchison, Kans., February 13. A great lot of bred sows of excellent breeding and bred to two of the very best Western boars, have been gotten together by Mr. Calham, who requests our readers to send bids after the 10th at Atchison, where the sale will be held. Bids before that date may be sent to Potter, his home address. Any limits entrusted to either auctioneer or fieldman will be handled in your interest.

Samuel Drybread authorizes us to claim date of March 17 for sale of hogs and cattle by several breeders at Elk City, Kans. Mr. Drybread is a breeder of Hereford cattle and Duroc-Jersey hogs. He has a splendid herd of each and with his neighbors is making this sale. Mr. Drybread will look after the details of the same. Parties should write him for catalogues and watch Kansas Farmer for further particulars.

J. R. Roberts, Wm. Knox, and G. M. Hebard, whose advertisements of Poland-Chinas appear regularly in our columns, have selected for their wheat-belt sale at Arkansas City, February 15, some excellent specimens from their respective herds. These are bred to their good herd boars and should be looked after especially by our readers in attendance at the sale. Either of the above gentlemen will gladly answer any inquiries regarding their respective consignments.

Mark M. Coad, Fremont, Neb., announces a dispersion sale of his Maple Grove stud of Percheron and French Coach horses comprising fifty stallions and twenty-five mares, the sale (Continued on page 132.)

Williams' Shaving Soap
You know that Williams' Shaving Soap is best. If an unscrupulous dealer tries to work off a substitute on you, "what are you going to do about it?"
Insist on Williams'.
Send 4c. in stamps for a Williams' Shaving Stick (Trial Size). (Enough for 50 Shaves.)
Williams' Barbers' Bar Soap, Yankee Shaving Soap, Mug Shaving Soap, Quick & Easy Shaving Soap, Williams' Shaving Sticks.—Sold everywhere. Address,
THE J. B. WILLIAMS COMPANY,
Dept. A, Glastonbury, Conn.

SEED CORN--REID'S YELLOW DENT AND BOONE COUNTY WHITE
This is not elevator corn, but real seed corn. Hand selected, tested and thoroughly graded. Good as you would select yourself. Sent on approval. Sample and catalogue free. Low Gap Seed Corn Farm, Arbela, Mo.

ALFALFA SEED Pure Kansas Grown Seed. Crop of 1905. Also Cane and Millet, Macaroni Wheat and other Field Seeds in carload lots or less. Write for prices
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SEEDS DIRECT TO CONSUMER--LOOK AT THESE PRICES: Red Clover, per bu., \$3.25; Alfalfa Seed, per bu., \$3.25; Timothy Seed, per bu., \$1.75; Fancy Kentucky Blue Grass Seed, per bu., \$1.75; Millet, Cane, Kafir Corn, Everything for Farm and Garden. Also Poultry Foods, Oyster Shell Grits, Cracked Bone, etc. Low prices and choice goods. Write me.
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Home Departments

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THE NINE-LIVED CORN.

The corn was killed in early May. The flood had washed it quite away. And later on it died again. And rotted 'neath the constant rain. Once more we tolled its final knell; The seed had not been tested well. Yet, later it began to sprout. Then died. The weeds had run it out. And later yet, still thin and pale, It perished in a storm of hail. Then came a fierce and burning heat. It died that week of "fred" feet. And then the awful smut arrived And not a single stalk survived. And soon we watched it, in dismay, Dry up and shrivel quite away. Then came the last and saddest death; It wilted 'neath the frost king's breath. Nine times, it died; and yet that fall, We built new cribs to hold it all. Now tell me, is there any cat With lives enough to equal that? —George Fitch, in Council Bluffs Non-
pareil.

Kansas.

Mrs. Bina A. Otis.

Our beloved adopted State was a territory unknown prior to the 16th century. The Spaniards were the first white men to tread upon her prairies. She was known for a long time as the "Mythical Kingdom of Quivera," and was explored by Zebulon M. Pike in 1806, and first settled at Leavenworth in 1837, was opened to settlement as a territory in 1854 and admitted as a State in the Union Jan. 29, 1861.

Some one has said "America is admitted to be the greatest Nation on earth, with the best form of government on earth." Ex-Governor Martin, when responding to a toast on Kansas soon after his inauguration, said, "Kansas is the electric light of the Union." From these two statements may we not conclude Kansas is sending forth a brilliancy that reaches the whole world?

Geographically, Kansas is the center of the United States. Charles Sumner described her as "the middle spot of North America, equally distant from the Atlantic on the east and the Pacific on the west, from the frozen Hudson on the north and the tepid Gulf Stream on the south, constituting the precise territorial center of the whole vast Continent." Although located half way between the northern border of the United States and the Gulf of Mexico, she never does anything by halves. Her climatic changes are sudden and go to the extreme. One day we are convinced that she would be classed with the States of the sunny Southland and within twenty-four hours we will with the same sincerity declare she is located in the frigid zone. When a drouth comes on her program she brings one that was never exceeded by any other State, and her floods surpass the imagination of her oldest inhabitant.

Superlatives in Order.

Since Charles Sumner delivered his memorable speech in the United States Senate, May 19, 1856, on the "Crime Against Kansas," her citizens and friends have been full to overflowing

with her praises. Our present Governor seems to have reached the climax in his response to "New England and the West," at a recent banquet at St. Louis, when he said:

"Kansas is perhaps the only State whose possibilities and glories can not be exaggerated. Kansas is the hub of the Union, all the other States are but the spokes; and when all the adjectives and superlatives and exclamation points have been exhausted; when the most vivid imagination and the wildest fancy have been taxed to their utmost; when the speaker or the writer has done his best to describe the glories and possibilities of the Sunflower State, he is not elated over his work—rather he is depressed. And when this panegyrist reviews his efforts, he sits down not in joy over victory but in sorrow over defeat, and is compelled to sadly exclaim with the Queen of Sheba, "The half has not been told!" Twenty-one years ago January 29, the Topeka Daily Capital said that probably nothing more could be said about Kansas than what was said in the issue of that morning or had been published in previous issues. Since that time each birthday anniversary has brought twelve months of progressive experience and history to the State which have perhaps been just as important as those of the first twenty-one years.

Some Achievements.

The conquering of the desert of the western plains and converting it into vast wheat-fields is a greater victory than that gained on battle-fields. The developing of our mines, the establishing of manufactories, and the increase of population have all contributed to the financial prosperity of our State. The uncomplaining bravery and hopefulness of our citizens since the flood, which was the last great calamity that has befallen our State, shows that our people are most worthy descendants of our Puritan forefathers.

That our surviving pioneer settlers of the younger generation possess the same spirit of those who helped in the early days to free Kansas from the curse of chattel slavery and make her a progressive, liberty-loving Commonwealth, shows that it is not another planet of the starry heavens that our citizens propose to reach through difficulties, but the bright star of progress located at the very heart of our glorious country that shall eventually be the guiding star of the whole world.

The forty-five years of the State are familiar to many of us; we are a part of them and they the larger part of our lives.

In the Early Days.

We well remember our first day in Kansas. The locomotive had not yet reached Topeka, so the long stage ride from Leavenworth brought us our first experience with Kansas mud. Several times the coach had to be relieved of passengers and trunks to enable the horses to pull it through the mire. Then the Kansas River was crossed by ferry. While the mud was on our clothes we enjoyed our first opportunity to see a prairie sunset in full glory and beauty, a description of which would be useless to attempt unless one possessed the command of language of the late Senator Ingalls. Since then we have found ourselves stuck in the mud on Kansas avenue in the center of Topeka; have seen the farmers' crops and hopes blasted with drouth and scorched with winds. Showers of grasshoppers have visited our gardens and fields and eaten all green vegetation; the peaches were eaten, leaving the bare stones to hang on the trees. Floods have swept away the lives, homes, and property of our citizens. But all this belongs to the past; and to-day we agree with our chief executive in saying that "The glories and possibilities of our Sunflower State can not be exaggerated." The past history is not a sealed book—it has its influence on the present and future of our Commonwealth. So the history we are now making will have its influence not only on our future, but on that of the coming generations.

Some Defects.

If we visit our Insane Asylum, the Reform School for boys, the Industrial School for girls, the Crittenden Home for unfortunate girls, and our jails and State prison, and read in the daily paper of the recent assault in our fair city, can we but feel that far too large a per cent of our inhabitants are in some way deficient in character? Can

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Ask your local dealer for a LOWELL INGRAIN when looking for a new carpet. Look for the hollow stick and be satisfied with none other than a LOWELL INGRAIN.

Manufactured by BIGELOW CARPET CO., New York

any one take issue with me when I say that the greatest question of State and of National importance at the present time is the development of ideal individual character? And are not our club women the greatest factor in society for the accomplishment of this purpose?

Governor Hoch, in his speech at the banquet given in Kansas City in honor of the two-hundredth anniversary of the birth of Benjamin Franklin said, "The best definition I have ever heard of greatness is the ability and disposition to give most of self to the uplift of others and the betterment of the world." Is not this just what our club women are doing?

Some Things the Club Women are Doing.

During the early days of the organization many took up studies that had been omitted in their school days, or reviewed those which had been almost forgotten. Later came works of philanthropy. Largely through their efforts Topeka has now a fine Manual Training Building and School. Domestic Science has been introduced into the Beloit Industrial School for girls, and a library has been started in the Boy's Reform School. The women have a motherly care over our charitable institutions of the State. A woman is on the city-park board of Topeka. Trash-boxes have been put on the streets of Emporia, benches on the State-House grounds. Patriotism is being taught the school children. Civic improvements are being instituted in all our cities.

Women's organizations were ready to be called on at a moment's notice in the time of the flood of 1903, and through their efforts many suffering families were made comfortable. Osage County women are doing all they can to make the county home of the worthy poor pleasant, and to supply some comforts to the aged inmates. The traveling art galleries and libraries are doing a great work for the elevation of the ideals of our citizens. The influence of the kindergarten work reaches far beyond the children of the schools and uplifts the atmosphere of their homes.

Some Things to Be Done.

One of the subjects presented at the Kansas City banquet by Governor Hoch as a fundamental fallacy, was "the mental attitude toward Government of so many of our best business men and private citizens; in other words, their indifference to practical politics." And in his remarks he says, "It is no wonder that our cities got into the hands of grafters and boodlers." This is high authority that we have corruption in the political life of our State. He also says: "Gentlemen, if you want good government, you must not be too busy to help make it." This is just what the progressive, patriotic, unselfish women of our State want to do. We want an ideal Government sustained by men of high ideals and strong moral character. Can our State reach true greatness while an injustice is being done one-half our adult population? In one respect Mormon Utah stands above our much-boasted Kansas. Twice have the men of our State defeated at the polls an equal suffrage bill. At this time the enthusiasm for our State is at high tide. Our best oratorical eloquence is utilized to sound her praises. But if her glories and possibilities can not be exaggerated, what can the coming generation say a few years hence when higher ideals control private and public life.

When public officials from the lowest to the highest shall so conduct them-

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selves that no one can accuse them of malfeasance in office; when the mothers of our State will no longer be the peers of the insane, the idiots and criminals; when civic improvement will extend beyond the cities, and the work of the good-roads organization will have been accomplished; when industrial training will have made skilled workmen, the women in all lines of work, with the worker taking pride and pleasure in his occupation, and holding more self-respect and recognizing the dignity of labor, then higher, ideal, moral character, developed in our individual citizens, will elevate the morals of the State—will bring to our Commonwealth the highest patriotism and an answer to our prayer, "Thy Kingdom Come and Thy Will be Done on Earth as it is in Heaven."

The Young Folks

ABRAHAM LINCOLN.

This man whose homely face you look upon
Was one of nature's masterful great men;
Born with strong arms, that unfought battles won,
Direct of speech, and cunning with the pen.
Chosen for large designs, he had the art
Of winning with his humor, and he went
Straight to his mark, which was the human heart;
Wise, too, for what he could not break, he bent.
Upon his back a more than Atlas load,
The burden of the Commonwealth, was laid;
He stooped, and rose up to it, though the road
Shot suddenly downward, not a whit dismayed.
Hold, warriors, councillors, kings!—all now give place
To this dear benefactor of the race.
—R. H. Stoddard.

Abraham Lincoln.

While a man is alive we see his faults, when he is dead his virtues are most prominent. Abraham Lincoln had his faults—faults that I would not like to see in any young man, but he had virtues that overshadowed his faults and made him a great man and won for him the lasting gratitude of a Nation. He was a man with a great heart and a sympathetic na-



ture, patient and self-forgetful. He was a man of high ideals and right purposes, and his energy and zeal never flagged until he had achieved what he had set to do. I wish every boy would read the life of Lincoln. Biographies of the great and good are not only interesting but helpful in the foundation of character.

Aunt Kate to Jack at Washburn.
Chicago, Ill., Jan. 23, 1906.

My Dear Jack:

I got through all right even though I did not have you to see after me. You looked very big and strong and manly, that last glimpse I caught of you, waving your hand from the station platform; and I, of a sudden, felt very small and very much alone.

One doesn't get to be independent and self-reliant—a new woman—all at once you know; and I must have been made by a very old-fashioned pattern. Anyway, I have a better time when I take a trip, if there's a man to look after me. (Very foolish isn't it, and I hardly dare write it out loud.)

But I wished for my big nephew most profoundly.

There's something I've been wondering, Jack, and that is, when the girls and women do become quite equal to looking after themselves in every way, shape and manner, do you suppose the

young boys will grow up with quite the same ideas of tenderness, and chivalry and manly protection for the feminine quantity that marked the gentlemen of the old school? I don't care for the clinging-vine girl—nothing of the sort. We are through forever with the clinging, weeping, Jane-Austen type of girl; but isn't there a happy medium somewhere? It seems to be such a tiny step from the independent, self-reliant, athletic young girl, to the young girl who talks too loudly, and who is just a wee bit masculine.

And isn't it rather more easy for a young man to keep on smoking a cigar (if he is foolish enough to smoke) when he walks beside a young lady of that type, than if she kept a little closer to the strictly feminine type? I cannot help but feel that if the girls and young women discountenanced the habit of smoking fewer boys would begin it.

I was standing in front of one of Field's windows this morning, when I noticed the dearest young girl coming—high-school girl I should judge. There was a frank, good-looking boy walking beside her, and they each carried a strap of books. They paused to look in at the window, and I saw that he had a cigar between his lips. I had been enjoying them—for you know how I love young people—and deploring the cigar, when I heard him say, "smoke both you, kiddie?"

He puffed away, the wind taking it right into her eyes.

"Not a bit, kid, I like it; and I think sometimes I would like to try it myself," said the girl, sweetly.

Don't laugh, Jack; it wasn't the least bit funny. My old-fashioned, middle-aged sense of propriety was hurt and shocked. They could both be so fine and beautiful and inspiring; but instead they choose to put themselves on a level with untaught street Arabs.

The scene made me sad, for the rest of the day. And that's what I'm coming to, Jack, boy. Yes, I know just what you are going to say. "Washburn girls aren't ever like that."

No, I trust not. But, dear boy, be your best, your highest every day that passes. Smoking isn't the worst thing by any means; but it isn't the best thing, either. And you can not afford to be satisfied with anything less than the best. You expect to become a fine, noble man like your father; but remember you have to get there by each day's effort.

And now, I am through preaching for this time, and I send you my love with the sermon.

YOUR AUNT KATE.

The Little Ones

MY VALENTINE.

The dearest, daintiest valentine
Has come this frosty morning,
Of pink and pearl, and all a-shine,
Just like the skies at dawning.

'Tis made of lace so fair and fine,
With edges crimped and crinkled,
And o'er each tiny trailing vine
Bright diamond-dust is sprinkled.

The loveliest little valentine,
With silver stars all spangled;
And in and out there twist and twine
Love-knots, with posies tangled.

'Tis on my window-pane—'tis mine—
For me he must have meant it;
And though his name he didn't sign,
I'm sure 'twas Jack Frost sent it!
—Alice E. Allen.

A Little Indian.

The little Indian girl's best dress is very different from yours. It is not trimmed with lace or beading or ribbon or any of the pretty materials you have. Her dress is made of skin and trimmed with beads and elk teeth. The elk teeth are the most prized of ornaments, for they are becoming quite rare. Only two teeth from each elk are used. So, when you learn that one dress is sometimes trimmed with three hundred teeth, you can count how many deer must have been killed to furnish the trimming. These teeth are worth from 50 cents to \$2 apiece, so the little Indian girl's dress is often very valuable.

How did her mother ever get so many teeth? They have been saved for generations, each mother hoarding those she inherited for her children. Each father's ambitions is to add to the family's treasures. On great occasions, when "Little Baby-Not-Afraid-to-Cry" goes to an Indian dance or some great merrymaking, her squaw mother gets out her best dress. Of course she has only one. When the little girl's hair is parted from the middle of her forehead to the back of her neck, and each strand twisted stiff with worsted or ribbon, her mother thinks her the sweetest

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can't afford to wear out as soon as the ordinary kind—it's got a reputation to sustain. We strongly recommend "Security Boots" to Farmers, Irrigators, Stockmen, Fruit-growers and every man who needs a good boot. Like everything else, it will wear out, but it is built to give the greatest amount of satisfaction possible. Boots made of old rubber cannot stand the wear—there's a dollar's worth of pure rubber and good duck for every dollar spent in the "Security." All "Lycoming" Rubber Boots and Shoes are of the highest quality only.

Go to your dealer and try on a pair. Note carefully how well made they are. If your dealer does not have them in stock he can easily get them for you.

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Any man knows that the apron operates better when power is applied at both sides. The I. H. C. spreader apron is driven at both sides from both hind wheels.

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The I. H. C. spreader is the only spreader which is controlled and operated entirely with one lever.

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One of the most noted, successful and richest men of this century, in a recent article, has said, "Whatever I am and whatever success I have attained in this world I owe all to my wife. From the day I first knew her she has been an inspiration, and the greatest help-mate of my life."



Mrs. Bessie Ainsley

To be such a successful wife, to retain the love and admiration of her husband, to inspire him to make the most of himself, should be a woman's constant study.

If a woman finds that her energies are flagging, that she gets easily tired, dark shadows appear under her eyes, she has backache, headaches, bearing-down pains, nervousness, irregularities or the blues, she should start at once to build up her system by a tonic with specific powers, such as Lydia E. Pinkham's Vegetable Compound.

Following we publish by request a letter from a young wife:

Dear Mrs. Pinkham:
"Ever since my child was born I have suffered, as I hope few women ever have, with inflammation, female weakness, bearing-down pains, backache and wretched headaches. It affected my stomach so I could not enjoy my meals, and half my time was spent in bed."

"Lydia E. Pinkham's Vegetable Compound made me a well woman, and I feel so grateful that I am glad to write and tell you of my marvelous recovery. It brought me health, new life and vitality."—Mrs. Bessie Ainsley, 611 South 10th Street, Tacoma, Wash.

What Lydia E. Pinkham's Vegetable Compound did for Mrs. Ainsley it will do for every sick and ailing woman.

If you have symptoms you don't understand write to Mrs. Pinkham, daughter-in-law of Lydia E. Pinkham, at Lynn, Mass. Her advice is free and always helpful.



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If you've never been Southwest to Oklahoma, Indian Territory or Texas—there is a treat in store for you. Besides escaping the wintry weather here, a trip now may prove of far greater benefit to you. There are more and better opportunities for making money—for home building, in the Southwest to-day than anywhere else. You have only to get on the ground to prove this.

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On above dates most lines will sell both one-way and round-trip tickets at exceptionally low rates. If your nearest railroad agent can not give you the rates, write me for particulars.

If you're in any way interested in the Southwest, I'd like to send you my paper "The Coming Country." Address

W. S. ST. GEORGE
General Passenger Agent
580 Wainwright Building, St. Louis, Mo.
Tickets are on sale everywhere, via Missouri, Kansas & Texas Railway.

T If you want to know all about **T**
E TEXAS and TEXAS **E**
X lands write for free sample **X**
A copies of the TEXAS STOCKMAN **A**
S & FARMER, San Antonio, Tex. **S**

child in the world, just as mothers have a habit of doing the world over, no matter what a child's color may be.—Holiday Magazine.

Club Department

OFFICERS OF THE STATE FEDERATION OF WOMEN'S CLUBS.

President.....Mrs. May Belleville Brown, Salina
Vice-President.....Mrs. L. H. Wishard, Iola
Cor. Secretary.....Mrs. N. I. McDowell, Salina
Rec. Secretary.....Mrs. W. D. Atkinson, Parsons
Treasurer.....Mrs. H. B. Asher, Lawrence
Auditor.....Mrs. Grace L. Snyder, Cawker City

Our Club Roll.

Mutual Improvement Club, Carbondale, Osage County (1895).
Give and Get Good Club, Berryton, Shawnee County (1902).
Women's Literary Club, Osborne, Osborne County (1902).
Women's Club, Logan, Phillips County (1902).
Domestic Science Club, Osage, Osage County (1888).
Ladies' Crescent Club, Tully, Rawlins County, (1902).
Ladies' Social Society No. 1, Minneapolis, Ottawa County (1888).
Challitso Club, Highland Park, Shawnee County (1902).
Cultus Club, Phillipsburg, Phillips County (1902).
Literateur Club, Ford, Ford County (1903).
Sabean Club, Mission Center, Shawnee County Route 2 (1899).
Star Valley Women's Club, Iola, Allen County (1902).
West Side Forestry Club, Topeka, Shawnee County, Route 8 (1903).
Fortnight Club, Grant Township, Reno County, (1903).
Progressive Society, Rosalia, Butler County (1903).
Pleasant Hour Club, Wakarusa Township, Douglas County (1899).
The Lady Farmer's Institute, Marysville, Marshall County (1902).
Women's Country Club, Anthony, Harper County.
Taka Embroidery Club, Madison, Greenwood County (1902).
Mutual Improvement Club, Vermillion, Marshall County (1903).
Prentis Reading Club, Cawker City, Mitchell County (1903).
Cosmos Club, Russel, Kans.
The Sunflower Club, Perry, Jefferson County (1903).
(All communications for the Club Department should be directed to Miss Ruth Cowgill, Editor Club Department.)

Art Program.

Rosa Bonheur.
1. Rosa Bonheur's Scotland pictures.
2. "Oxen Plowing."
3. Rosa Bonheur's life in Fontainebleau.
I. The wild and rugged scenery of Scotland, with its wide-horned cattle and its herds of sheep feeding on the steeps, was such as would satisfy a nature like Rosa Bonheur's, and we need only to look upon her Scottish pictures to know how much she appreciated it. "Denizen of the Highlands," "Changing Pasture," "A Scottish Raid," "Crossing a Loch," are the names of some of them.
II. A country scene from the introductory chapter of one of George Sand's stories, furnished the subject for this picture. "Oxen Plowing" is one of her best works and the study of it is worth while.
III. In her declining years Rosa Bonheur enjoyed a quiet, peaceful life with her pets, assisted occasionally by those of her friends whom she loved.

Challitso Club, Highland Park.

The regular meeting of the club was held January 25, at the residence of Mrs. Theodore Wilkie. The members of Good Government Club of Topeka were the guests.

It being so near to "Kansas Day," the program was suited to that occasion. The members of both clubs responded to roll call with quotations from Kansas authors; after which, Mrs. W. H. Johnston spoke of the program for Kansas Day celebration and the proposed organization. Mrs. Will Fredericks then read a very interesting paper on "Long Ago in Kansas." Mrs. Burlingame described the heavy freight prairie schooners drawn by oxen in those days, and related some interesting experiences with the Indians. She, with Mrs. McFarland, were the only ones present who resided in Kansas at that time.

Then followed a paper on Kansas by Mrs. Otis.

The closing of the program was a very interesting talk by Miss Bray on the Kansas-Nebraska Bill, giving the causes that led to it and the conditions it brought to Kansas, after which a dainty lunch was served. This was a gathering where a city club was the guest of a country club, an afternoon greatly enjoyed by both organizations.
BINA A. OTIS, Sec.

Prentis Reading Club.

The above-named club is in its fourth year, and we feel that it is growing better each year. Our work consists of the study of "Italian cities and poetry," also "Greek art and literature" in connection with the Chautauquan. We have prepared year books and find them a great help. As we could not afford to

have them printed, we wrote them. An interesting feature of our meetings is the few minutes devoted to household helps, which we all enjoy very much. We expect to entertain our husbands and friends the evening of the twenty-ninth. The following is our program:

Song, John Brown.....By Club
Roll call
.....Quotations from Kansas Authors
Quantrell's Raid.....Miss Pitts
SongLillian Brown
Kansas Authors.....Mrs. Norton
Poem, by Ironquill.....
.....Mrs. W. E. Blankenship
Prominent Politicians in Kansas.....
.....John Kyle
MRS. W. E. BLANKENSHIP,
Secretary.

The Prentis Reading Club, of Cawker City, remembered the Club Department by sending its year-book, which is very neat and nicely gotten up. It is written on heavy linen writing-paper. The covers are pebbled boards, the whole being tied together with three bow-knots of purple baby-ribbon. The motto is, "They must upward still and onward, who would keep abreast of Truth." It contains the constitution, which is short and to the point; section first reading, "The object of the Prentis Reading Club shall be to broaden the outlook of its members, make them more familiar with the past, and prepare them for the future." The Club Department is glad also to have a report from the club, which is published this week.

The Apiary

The Apiary for February.

During this month brood-rearing will begin, and during the latter part of the month it will be going on pretty lively in cases where colonies have come through the winter in good condition as to numbers, and food has been abundant and in order to supply the same in required quantity, there should be inspection of each colony, and if a shortage of stores is manifest, they should be fed a syrup made of granulated sugar, the same to be dissolved in water in about the proportion of 3 parts of sugar to 1 of water; or it may be made into candy or cake of sugar by boiling until, when dropped into water it will solidify, when it may be poured into saucers, they being greased on the inside with a little lard to prevent the candy from sticking. When cold, it may be turned out of the saucer and laid on top of the frames directly above the bees. Then cover it over with a cloth of several thicknesses as a means of keeping the bees warm while supplying themselves with it as food. Care must be taken in making these cakes so as not to scorch the syrup as it is almost sure to injure the maturing brood.

Let it be borne in mind that no sort of neglect in regard to supplying bees with an abundance of food during this month, March, and April, are admissible, for if the colony is to be profitable when the honey season proper arrives, it must be strong in numbers. Last year was one of the poorest for a honey yield ever known in the history of the country. To such an extent was this the case that most bees went into winter quarters with an insufficient amount of stores to carry them through the winter, to say nothing about the spring months, when they must not be stinted for food, as in such an event breeding cannot be carried on so as to insure a good colony for honey-gathering. In fact, it is quite likely that many colonies will perish for want of food if they have not already done so. Nothing short of vigilance will save many colonies that are ill fed.
G. BOHRER.

Publishers' Paragraphs.

Now is the time to begin to think about seed-corn for the next planting. The time to determine whether you will continue to plant seed from ears selected from the crib after a winter's freezing and thawing or will get some pure-bred seed and insure a greater yield to the acre. It may help you to decide this very important question if you will send for an illustrated catalogue of pure-bred, fire-dried seed-corn to J. B. Armstrong & Sons, Shenandoah, Iowa, the men who made their State famous for seed-corn.

We call attention to the advertisement of the Iowa Tanning Company this week, if you have never noticed it before just take a look at it this week. This house is the largest house doing custom tanning in the United States. It guarantees every bit of work it turns out, every coat is guaranteed for a period of two years. All hides and furs sent this firm will have only the very best of attention, and come out a credit to the house, and make you a pleased customer.

The Delicious Fragrance

from a hot
Royal Baking
Powder biscuit
whets the
appetite

ROYAL Baking Powder improves the flavor and adds to the healthfulness of all risen flour-foods. It renders the biscuit, bread and cake more digestible and nutritious.

Royal Baking Powder makes hot breads wholesome. Food raised with Royal will not distress persons of delicate or enfeebled digestion, though eaten warm and fresh.

LOW ONE-WAY RATES VIA UNION PACIFIC FROM TOPEKA EVERY DAY

FEBRUARY 15 TO APRIL 7, 1906.

\$25.00 to San Francisco, Los Angeles, San Diego and many other California points.
\$25.00 to Everett, Fairhaven, Whatcom, Vancouver and Victoria.
\$25.00 to Portland, Astoria, Tacoma and Seattle.
\$25.00 to Ashland, Roseburg, Eugene, Albany and Salem, including So. Pac. branch lines in Oregon.
\$22.50 to Spokane and intermediate O. R. & N. points to Wenatchee and intermediate points.
\$20.00 to Butte, Anaconda, Helena, and all intermediate main line points.
\$20.00 to Ogden and Salt Lake City, and intermediate main line points.

For full information inquire of
**F. A. LEWIS, C. T. A., or
J. C. FULTON, DEPOT AGENT**

**THE 'CLEAN' COMB
IS ALWAYS CLEAN**

The self-acting plate through which the teeth act cleans them perfectly while being applied, protects them from bending and shields the horse from harshness; removes dust and dandruff and thoroughly cleans a horse with half the time and labor required by any other comb.

Sample by mail, postpaid, 50c. A money-maker for agents; write for particulars.
CLEAN COMB CO., Dept. 4, Racine, Wis

The Veterinarian

Dog Died.—I had a fine shepherd dog and his death is a mystery to me. We first noticed that something was wrong the day before he died. He would hold his mouth open and loll his tongue out. When fed it was noticed that he could not eat. The next morning the dog seemed hungry and was also friendly so I felt safe to look into his mouth. I found the roof of his mouth black and dry and the tongue black and shrunken and as dry as could be. The dog would try to eat and drink but his tongue was in such a shape that he could not bring the food far enough into his mouth so he could swallow. I tied him up in a warm place for fear he would go mad. In the evening I decided to put some fresh lard in his mouth to try to soften it, but as soon as the lard was in his mouth he was in great misery. I left the dog and returned in an hour and found him dead. He seemed to have died without any struggling. The dog has been dead now for two days and as yet there is no discharge from the mouth. Can you tell me the cause of his death? I hardly think it was poison for he was surely sick too long.

Tescott, Kans. R. F. L.
Answer.—The symptoms you give would indicate some affection of the tongue of the dog, which might come from swallowing a needle and having it run into the base of the tongue, or some foreign substance preventing the animal from swallowing. I would think, as you do, that it was something other than poison. Some obstruction to the entrance of the gullet was evidently the cause.

Distemper in Horses—Lousy Steers.
 —I have a horse that has fistula and would like to have you send me your press bulletin treating of fistula and poll evil. I have also had distemper among my horses and mules the past summer. It seems to be going through them again, not quite so bad as last summer, but it makes them pretty sick. They cough and draw up in flank, the legs swell, and there is considerable discharge from the nostrils. Their throats do not seem to swell as they did last summer. The throats would swell and break last summer. There would be swelling on various parts of the body also that would break and make a running sore, but have noticed nothing of the kind this time. What can I do for them?

Also, have 100 head of 2-year-old steers on full feed, that are lousy. What is the best way to rid the animals of them at this time of the year? How would it do to use Kansas crude oil just as it comes from the well? It works all right for spaying hogs, and why not cattle?
 L. B. H.
 Bucyrus, Kans.

Answer.—We have sent the bulletin you desire. In regard to your horses having distemper would advise using the following: Pulverized nux vomica, 1 ounce; pulverized gentian, 4 ounces; ammonium chloride, pulverized, 4 ounces; chlorate of potash, pulverized, 2 ounces; glycyrrhiza root, pulverized, 10 ounces. Mix well and give half a teaspoonful night and morning in ground feed.

We are sending a bulletin describing the preparation and use of lime and sulphur dip, which I think could be used this time of the year, hot, without doing damage to the animals. The crude oil you mention I think is going to be a very satisfactory dip, and you might try it on one or two before dipping the entire bunch.

Chronic Cold.—There is a disease among horses here; they cough and have no appetite and are quite chilly when the air strikes them, and they fall off in flesh.
 J. M. C.
 Stafford, Kans.

Answer.—The symptoms of the horses affected are simply those of a chronic cold. Would advise keeping the animals in a warm building, blanket them and give them a cough mixture similar to the one advised for L. B. H., Bucyrus, in this issue.

Death Caused by Fallsade Worm.—I have lost four good mares and one horse in the last two years. They get stupid, have fever, kidneys affected, wobble in hind quarters, and the veterinary here says it is malarial fever caused from the well-water. My well is a strong vein 20 feet deep; no surface water. I would like your opinion as to cause of trouble.
 S. H. Mc.
 McCune, Kans.

Answer.—We are mailing you a bulletin which we think will explain the



DR. HESS, M.D., D.V.S.
 IN HIS
 LABORATORY

**Knowledge—
 not guesswork**

Dr. Hess (M.D., D.V.S.) who formulated Dr. Hess Stock Food is a regularly licensed Doctor of Medicine and a Veterinary Surgeon. He is a graduate of the University of Wooster, Cleveland, Ohio; Matriculate of College of Physicians and Surgeons, Baltimore, Md., and a graduate of the Chicago Veterinary College, and in addition is a practical stock feeder of many years' experience. Dr. Hess Stock Food is a medicinal food prepared from a highly successful prescription used by Dr. Hess in his many years regular practice before the food was put on the market. It requires only common sense to see that unprofessional manufacturers cannot equal a preparation formulated by a practical physician and based upon accurate knowledge, long experience and observation. Furthermore.

DR HESS STOCK FOOD
FOR CATTLE, HOGS, SHEEP AND HORSES

is sold under a positive guarantee to do all that is claimed for it. It contains tonics for the digestion, iron for the blood, nitrates to expel poisonous materials from the system, laxatives to regulate the bowels. The ingredients of Dr. Hess Stock Food have the endorsement of the Veterinary Colleges and the Farm Papers. Recognized as a medicinal tonic and laxative by our own government, and sold on a written guarantee at

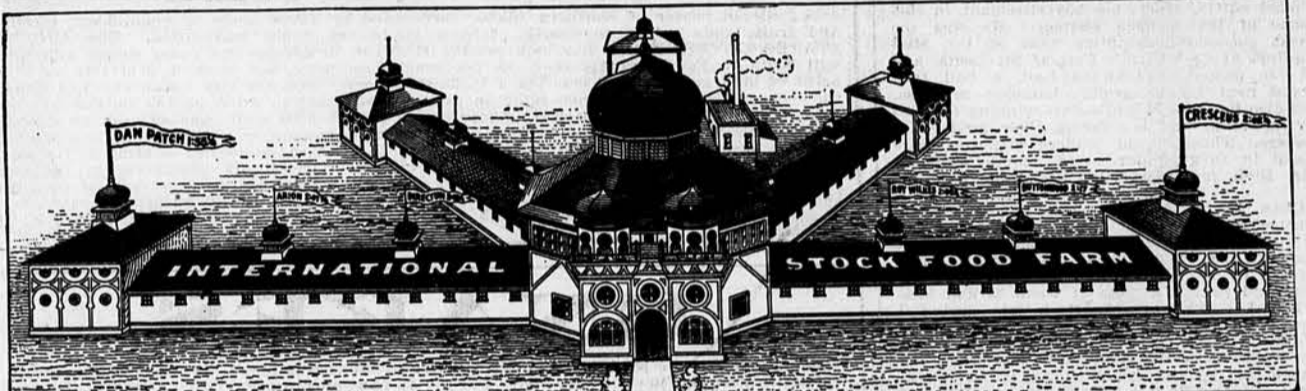
**5¢ per lb. in 100 lb. sacks; Except in Canada
 25 pound pail \$1.60 and extreme
 West and South.**

A tablespoonful per day for the average hog. Less than a penny a day for horse, cow or steer. If your dealer cannot supply you we will. Remember, that from the 1st to the 10th of each month, Dr. Hess will furnish veterinary advice and prescriptions free if you will mention this paper, state what stock you have, also what stock food you have fed, and enclose two cents for reply. In every package of Dr. Hess Stock Food there is a little yellow card that entitles you to this free service at any time.
DR. HESS STOCK BOOK FREE, if you will mention this paper, state how much stock you have and what kind of stock food you have used.

DR. HESS & CLARK, Ashland, Ohio.

Also Manufacturers of Dr. Hess Poultry Pan-a-c-e-a and Instant Louse Killer.

Instant Louse Killer Kills Lice.



**YOU ARE INVITED TO VISIT
 THE MOST FAMOUS HORSE BREEDING FARM IN THE WORLD**

M. W. Savage, sole proprietor of "International Stock Food Co." Minneapolis, Minn. is also owner of "International Stock Food Farm" of 100 acres, 10 miles from Minneapolis. The above engraving shows the main training stable which was designed by Mr. Savage and is the only stable of this kind in the world. It is 400 feet long across the front. The Octagon center is 90 feet in diameter and each of the five wings is 187 feet long and contain 120 box stalls each having good light and outside windows. The center is over 100 feet high and contains a large tank in the top, which gives a good supply of water throughout the entire stable. The entire stable is heated by steam and hot water and cost over \$50,000. We also have over 100 additional stalls in our brood mare stables. This farm is located in the beautiful and fertile valley of the Minnesota River, which empties into the Mississippi River at old, Historic Fort Snelling. The farm is reached by both Steamboat and train and is one of nature's garden spots for a farm of this kind. A sparkling trout stream which never freezes winds its way through the farm and under the shade of many magnificent trees gather many picnic parties to enjoy the beauties of nature and to watch the care and training of the large number of colts always in training on our mile track located on river bank and built by the world's famous track builder Mr. Seth Griffin. This is one of the very best and fastest sod tracks ever built and although built on comparatively level ground it cost \$18,000, on account of the slow, careful work necessary to the best selection and placing of the sod. We selected sod that had never felt the disturbing touch of a plow and placed the sod so that it would become a track of unusual life and elasticity so that the colts do not become sore or bad gaited from their every day training. We are also building a half-mile track for special use when the mile track is unfit for use by reason of rainy weather and for the training of colts intended for race events on half mile tracks. "International Medical Spring" is located on this farm and has a flow of 5,000 barrels per day. This water is deliciously medicated and is noted for its many cures. Twenty-five springs are located in different parts of the farm and it is abundantly supplied with the purest of water. "International Stock Food" farm is the only farm in the history of the world that ever owned such Four World Champion Stallions as Dan Patch 1:55 1/4 that ever owned such Four World Champion Stallions as Dan Patch 1:55 1/4, the Crocoos 2:02 1/4, Directum 2:06 1/4 and Arion 2:07 1/4. These stallions are all the present time champions, in their class and with our other stallions Roy Wilkes 2:05 1/4, Ed Patch 2:08 1/4, Buttonwood 2:17, Directum Jr. 2:24 1/4, "International Stock Food" three times per day. Dan Patch 1:55 1/4 the fastest harness horse the world has ever seen, never broke the world's record until after he had eaten "International Stock Food" six months. It made his blood pure and rich, permanently strengthened his entire system, aided his digestion and assimilation so that greater nerve force was produced and this gave more speed, endurance and strength. Since eating "International Stock Food" Dan Patch 1:55 1/4 has broken twelve world's records and closed the season of 1905 in remarkably fine condition and running over with speed. We also have one hundred high class brood mares and their colts every year and they eat "International Stock Food" every day. When you visit the farm we want you to look them over specially and see the results. We have colts for sale by our Stallions which you can buy by mail as safely as if you saw them. We

guarantee to refund your money immediately if purchase is not exactly as described. We take all risk and guarantee satisfaction. Write us at any time. Our loss of colts at foaling time has always been extremely small and we attribute this to the fact of our mares being kept in much better condition by the constant use of "International Stock Food". Prominent horse breeding farmers and trainers are regular users of "International Stock Food". It pays us to feed it to our horses, it pays them to feed it to their horses and we positively guarantee it will pay you to feed it to your horses and other stock. If it ever falls the use of "International Stock Food" will not cost you a cent as it is always sold by over One Hundred Thousand Dealers on a "Spot Cash Guarantee". It will pay you to test it. If not for sale in your locality write direct to us and your letter will have prompt attention. When in this locality, Mr. Savage specially invites you to visit "International Stock Food" farm, and the freedom of the farm is yours at any season of the year. We want you to compare the results of feeding "International Stock Food" and to personally see the results of feeding "International Stock Food". A large number of men are constantly in attendance at the farm and you will be shown every courtesy in looking over the farm and examining the horses. We never advertise anything but what we can show you with pleasure.

Our Elegantly Illustrated Farm Catalogue.

We have just published a very handsome illustrated Catalogue of our farm and horses. We believe this to be the most attractive catalogue of this kind ever published. It is printed on heavy enamel paper, elegant colored cover and contains 80 pages 9 by 12 in size. It gives a correct history of the racing life of each of the Four Champion Stallions with name of track and date where every important race was held. This matter is written in a thrilling style that appeals to every horse owner or lover of a horse. This Catalogue contains so much horse history that every horse lover should have one. It not only gives this history but it also contains many very beautiful half-tone pictures of these world Champion Stallions, brood mares, colts and general views of farm, river and valley. This book would grace the library of any man of farm and stock breeders who will want it for reference. However we have decided that we will mail one copy free to anyone who writes us and encloses 35 cents in stamps for postage, etc. If you would like a copy be sure and write at once and the Catalogue will be mailed promptly. First thousand cost us \$1.75 each.

DAN PATCH 1:55 1/4 MAILED FREE

We have a Beautiful Six Color Picture of our Champion Pacer, Dan Patch 1:55 1/4, size 16 by 24. Free of advertising, fine picture for framing, given all the records made by the pacer wonder. We will mail you one free, postage prepaid, if you write us how much stock you own and name this paper. Write to INTERNATIONAL STOCK FOOD CO., Minneapolis, Minn., U. S. A.

trouble with your horses, as a great many all over the country are dying with the same trouble. The bulletin is too long to publish in this column, so we send it direct.

Water Founder.—Please give in your paper a sure cure for water founder and colic.
 T. W.
 Larned, Kans.

Answer.—As soon as an animal shows symptoms of the colic, put two ounces of turpentine in a quart of raw linseed oil; also add an ounce of chloral hydrate which has been dissolved in half a pint of water; add the chloral to the oil and give as one dose. If the symptoms are not relieved in an hour, repeat the turpentine, in an ounce dose, in a pint of milk.

C. L. BARNES.

The 112-Bushel Oats.

If every farmer could raise 100 bushels of oats to the acre, we should soon be hearing of "King Oats," as well as King Corn. Probably not everybody can. Something depends on the soil,

CATALPA AND OSAGE FOR POSTS

Every farmer should grow his own post timber. Get the true catalpa speciosa. We have it. We also offer fruit trees, shade trees, small fruits, grape vines, flowering shrubs, etc. Tell us what you want. We will make the price right.
PETERS & SKINNER, No. Topeka, Kans.

but much, too, depends on the seed. Not every kind of oats is 100-bushel oats. The Griswold Seed Company, of Lincoln, Nebraska, have in their Kherison oats a variety that is making a great record. We believe its record yield is 112 bushels per acre, but many of the farmers who have been growing it for years have been harvesting over 100 bushels. It was brought to Nebraska from the rigorous climate of Russia and it has proven a wonderful success in this country. The heads are large and often contain upwards of a hundred fully developed grains. One good feature is that the straw grows so strong and vigorous that it stands up well and escapes the lodging of

other varieties in a windy country. It is one of a number of really good things the Griswold people have to offer in their catalogue this year. They are general seed dealers and their catalogue well illustrated and with full descriptions, may be had just by writing for it.

The Right Road

from Kansas City to Chicago, St. Paul, Minneapolis, Dubuque and Des Moines is the Chicago Great Western Railway. Three well equipped trains daily. Best of service. For further information apply to Geo. W. Lincoln, T. P. A., 7 W. 9th St., Kansas City, Mo.

When writing advertisers please mention this paper.

Gossip About Stock.

(Continued from page 127.)

to be held at South Omaha, Monday, February 26, 1906. The horses offered in this sale are 3 and 4 years old. They are mostly all black, strong boned and stylish colts. Mr. Coad believes this to be one of the choicest lots of Percherons ever offered to the public at auction. Notice the ad in this issue, send for catalogue and mention the Kansas Farmer.

C. S. Nevius, Chiles, Kans., will sell Short-horns and Poland-Chinas on March 13, 1906. Our readers will remember the winnings of this herd during the past season and will be interested in this announcement. A number of the show-herd animals are included and one of the pure Scotch herd bulls will be sold. The Poland-Chinas are of the kind that lift the scale beam. Write him early for catalogue.

Gigolo (53894) the great Percheron stallion whose portrait appeared on the front page of the Kansas Farmer, issue of December 23, 1905, and who was a prize-winner at both the Iowa and Nebraska State fairs last fall, has just been sold by his importer Frank Iams, St. Paul, Neb. The writer saw the horse at both these fairs when he weighed 2200 lbs. and he was certainly "peaches and cream."

Snyder Bros. will sell Poland-Chinas at Winfield, Kans., February 9, 1906. They are selling a variety as to ages and breeding. Fall pigs of either sex, bred sows and gilts, open gilts and serviceable boars. Write for catalogues now and send mail bids to Col. James W. Suarks if you can not attend. In addition to swine two Double Standard Polled Durham bulls and some Shorthorn and Double Standard heifers will be included in the public offering.

W. N. Messick & Sons sale catalogue for their sale at Ottawa, February 19, is one of the most attractive published for this season's sales. It is nicely illustrated and in it Messrs. Messick give the breeding and history of the great offering they are selling. It is possible that there are more daughters of State Fair prize and champion winners included in this sale than will be held during this season in Kansas. Every one interested in first-class Polands surely want this catalogue. Write Messrs. Messick at Piedmont, Kan., for same.

Wilkie Blair, Girard, Kans., breeder of Red Polled cattle, starts his advertisement in this issue of the Kansas Farmer. He was the most successful exhibitor west of the Mississippi at the World's Fair at St. Louis, and is the owner of Linwood Lad, a bull that stood next to the grand champion in class. He also has four World's Fair winning females in the herd, and is offering their produce to buyers. Those of our readers who are interested in this popular breed should write to Mr. Blair for information about his herd.

Chas. Foster & Son, whose ad, calling attention to their Light Brahmas, is being run in the poultry column, had Judge Atherton of Emporia score a number of their Brahmas last week. The cockerels scored up to 94, pullets 95 1/2, and hens 96 1/2; lots of them 93 and 93 1/2. When I looked at this flock last spring I passed them in my mind as the best flock of Light Brahmas I ever saw, and Judge Atherton's statement that they were the best large bunch that he was ever in, bears out my judgment. Messrs. Foster have a number of 93 and 93 1/2 cockerels, and some choice hens and a few pullets for sale. Write them at once.

Geo. Groenmiller & Son, owners of the Coburn herd of Red Polled cattle, Pomona, Kans., have just sold their prize-winning bull, Perfection 12095, at a long price to W. S. Hill, Alexandria, South Dakota, who places him at the head of his fine herd of 110 head. This bull was shown at the Louisiana Purchase Exposition and at numerous State and district fairs and was never defeated. Mr. Hill had been searching for some time for the best Red Polled bull that money could buy and says he found him in Protection. There still remain in the Coburn herd a number of half brothers of Protection that will make show bulls. Some of them might be bought.

The new horse catalogue of Frank Iams, St. Paul, Neb., for 1906, is just at hand and it is certainly "peaches and cream." The book contains 140 pages of beautifully printed matter about half of which are cuts of his best Percherons, Belgians and Oldenburg Coachers. He has 157 head of the different breeds on hand from which you can choose at prices surprisingly low when real value is considered. Mr. Iams speaks French like a native and thus has a great advantage when he goes over to make his importations. A number of the animals catalogued were prize-winners at both the Iowa and Nebraska State Fairs of 1905. Mention the Kansas Farmer to Mr. Iams and he will send you one of these beautiful catalogues.

We call attention to the public sale announcement of Frank Georgia, Mankato, Kans., owner of Excelsior herd of Duroc-Jerseys and Poland-China swine, who will hold his sixth annual bred-sow sale at Mankato, Kans., February 24, 1906, as announced by his advertisement in this issue. He pertinently remarks that a long list of satisfied customers he regards as his best advertisement next to the Kansas Farmer. He also says that the stock in this sale is blue-ribbon stuff. Mr. Georgia took more premiums at the Jewell County fair last fall than all other live-stock exhibitors combined. The sows are bred to the sires that took sweepstakes over everything in their class. Write for catalogue and be sure and attend the sale.

Attention is respectfully called to the combination sale of Hereford cattle to be held at Kansas City, Mo., February 28 and March 1, advertisement for same appearing upon another page of this issue. Some sixteen breeders of Herefords, all of high standing in the Hereford ranks, have combined to make this sale, and 100 head of well-selected and highly-bred cattle are being prepared for the same. Do not overlook this but keep it in mind, and if you are in need of one animal or a carload, this will be the best opportunity of the season to fill your wants. This sale will be under the management of Secretary C. R. Thomas, Kansas City, Mo., who will take pleasure in sending you a catalogue of same, if it is your desire that one be sent you.

C. A. Stannard, owner of Sunny Slope Herefords, Emporia, Kans., writes: "I desire to report to your readers the sale of 100 head of registered Hereford cows and heifers, to Mr. I. E. Lambert of Emporia, for his ranch at Florence, Kans. Mr. Lambert has been for years an enthusiastic admirer of the Here-



I CURED MY RUPTURE

I Will Show You How To Cure Yours FREE.

I was helpless and bed-ridden for years from a double rupture. No truss could hold. Doctors said I would die if not operated on. I fooled them all and cured myself by a simple discovery. I will send the cure free by mail if you write for it. It cured me and has since cured thousands. It will cure you. Write to-day. Capt. W. A. Collings, Box 109 Watertown, N. Y.

Getting What You Want

We all want a pleasant and prosperous home. This we have ready for you. We are subdividing and selling the splendid Los Molinos Ranch of 40,000 acres in the famous Sacramento Valley of California. We have every combination to insure you success. Soil is smooth and richest sedimentary deposit. Climate so mild every month can be used for planting and growing crops and fruits. Water supply unknown, a dry season unknown. All who see our lands are enthused. Come and look over our crop, garden and fruit lands. You will locate with us if you do. Send for our booklet. Write for particulars. It will pay you. Address LOS MOLINOS LAND CO., 305 WASHINGTON STREET, RED BLUFF, CALIFORNIA.

AT KENNEWICK ON THE COLUMBIA.

The ideal climate, winters warm and balmy. Under the Great Northern Pacific Canal. The choicest irrigated land in the West. Own a ten acre fruit ranch and be independent. Why work for others; be brave and do as thousands have done before you. These men have not made a mistake in coming here, many are independent. We produce the earliest fruit, berries and grapes grown in the West. It is all that we claim for it. Write to KENNEWICK LAND CO., - - KENNEWICK, WASHINGTON.

NAMPA, IDAHO

A railroad center of Southern Idaho, surrounded by 300,000 acres of magnificent farming and fruit lands. Only one-fourth of these lands are under cultivation. The UNITED STATES GOVERNMENT has appropriated \$11,000,000 to develop the water supply and work will begin in February this year. A beet sugar company has secured contracts on 6,000 acres of land and are now erecting a \$1,125,000 factory within the city limits and will handle the crop of 1906. We have just built an alfalfa meal plant to grind up the surplus hay and ship it away in sacks. A brewery company has just secured a site and will put up a \$90,000 plant. This will help the hop industry. A flour mill company is seeking a site and one will soon be located. You can not fail to see that all of these enterprises locating at the same time in a town of about 3,000 people will double and triple its population in the next two or three years. We raise 5 to 8 tons of alfalfa per acre, 300 to 500 bushels of potatoes, two crops of timothy and clover, 30 to 60 bushels of wheat, 60 to 100 bushels of oats, 50 to 70 bushels of barley. All fruits raised to perfection. Write the NAMPA CHAMBER OF COMMERCE.

SNAKES

are not found in the SNAKE RIVER VALLEY, but here is found the most beautiful tract of agricultural land in the United States, and you do your raising, and have no failures of crops, that's irrigation. No Cyclones or Blizzards. This country needs live, wide-awake men, who wish a new home in the rapidly developing west, and offers cheap land, good church and school facilities, and a chance to make money to those who are willing to work. St. Anthony, the County seat of Fremont County, Idaho, is a bright and growing town in the very heart of a rich and growing richer country, and if you wish reliable information in regard to prices, soil, climate and our prospects; write any of the following firms: First National Bank; C. C. Moore Real Estate Co.; Wm. D. Yager Livery Co.; Murphy & Bartlett, Cafe; Commercial National Bank; C. H. Moon, Farmer; Chas. H. Heritage, Riverside Hotel; Miller Bros., Grain Elevator; Skalet & Shell, General Merchandise; Chas. S. Watson, Druggist; Gray & Ross, Townsite; W. W. Youmans, Harness Store.

fords, and his establishing a herd means the building up of another great herd of White-faces in Kansas. This is the largest sale I have made to one person in two years, and it seems like old times again. I have had more inquiries for bulls this winter than I have had since 1901, and some inquiry for females. Those inquiries for females are a sure sign of returning prosperity for the breeders of Herefords. My advice would be to all 'stay with your Herefords,' get more and better ones. There never was a better time to buy than now; prices are very low, and when prices are low it is a bad time to close out. Sell your surplus; get rid of the poor ones and put better ones in their place, and when prices go up and every one wants to buy, sell."

H. H. Hague & Sons, proprietors of Sunnyside herds of Duroc-Jersey swine, Shropshire

sheep and Scotch Collies, have been doing business in hogs lately. They write that they have sold all their spring boars and a number of sows and gilts during the last two weeks. Last week L. E. Rose of Hesston, Kans., visited Sunnyside and bought a Melrose boar which he says is the best pig he has seen this fall after a visit to a number of good Kansas herds. It is pleasant to the Messrs. Hague to receive the many letters from satisfied customers which arrive almost daily. They have now decided to sell their herd boar, Wichita Wonder 34937, by Juno 21665, out of Red Betty 81568. This boar was farrowed July 15, 1904, and is one of a litter of 10, all raised. He is a good and sure breeder. Mr. Hague ends his letter as follows: "We want to thank the 'Old Reliable' Kansas Farmer for the business it has brought

OTHERS MAY TREAT I CURE

I want every one that is suffering from Varicocele, Acute and Chronic, Chronic Ulcers, Blood Poisoning, Hydrocele, or any Swelling, Catarrhal Affections, Rheumatism in all its forms, Bladder and Kidney Conditions, Eczema, Cancer, Pimples, Erysipelas or any Eruptive Conditions of the Skin, or any Associate Disease, to come and have a social chat with me. I will give Free of Charge my honest scientific opinion of your case. Suffer no longer. Consult me at once.



I TREAT AND CURE DISEASES OF WOMEN.

I extend an invitation to those in particular who have failed to get relief elsewhere. Call and I will explain my method, and if your case is curable I will give you a guarantee to cure you. If you can not call, write and mention Kansas Farmer. All correspondence strictly confidential.

DR. D. A. COOKINGHAM 106 West Eighth St., Topeka, Kan. Hours: 9 to 12, 2 to 5, 7 to 8. Sunday: 9 to 12.

PRESIDENT ROOSEVELT SAYS:

"There may be some place in the world equal to Puget Sound, but I don't know where it is." Best year-around climate in the United States. Fertile soil and immensely rich and varied resources. Send 4c for finely illustrated 64 page free booklet on this wonderful section of the United States. Chamber of Commerce, Everett, Wash.

J. F. STAADT, Ottawa, Kans.

Sells Choice Duroc-Jersey Hogs Feb. 28, 1906 WRITE FOR CATALOGUE

CAMPBELL SYSTEM FARMING ASSOCIATION

Membership \$5.00. Organized to educate farmers to use the Campbell System of soil culture. Dry Farming Magazine, edited by Mr. Campbell, \$1.00 per year, including Campbell's Manual. Send ten cents for sample copy today. Cash discount on Campbell machinery to members only. The Campbell System Farming Association, 1715 California St., Denver, Colorado



THE MOST IMPORTANT PUBLIC SALE OF REGISTERED HEREFORD CATTLE

THAT WILL BE HELD THIS YEAR TAKES PLACE AT THE LIVE STOCK SALE PAVILION

Kansas City, Mo., Wednesday, Feb. 28 and Thursday, March 1, 1906

BEGINNING EACH DAY AT 1:00 O'CLOCK SHARP.

THE SALE IS BEING MADE BY THE FOLLOWING WELL-KNOWN HEREFORD BREEDERS:

- C. A. STANNARD, Emporia, Kans. C. B. STOW, Hamburg, Iowa. MISS LOU GOODWIN, Blue Rapids, Kans. JAS. A. GIBSON, Odessa, Mo. T. C. SAWYER, Lexington, Mo. D. D. AKIN, Sterling, Kans. J. A. YARSON, Everest, Kans. GEO. B. BAKER, Maryville, Mo.

- GUDGELL & SIMPSON, Independence, Mo. J. W. LENOX, Independence, Mo. CLARENCE DEAN, New Market, Mo. R. C. WILSON, Belton, Mo. STEELE BROS., Richland, Kans. W. J. BONBY & SON, Cairo, Mo. MRS. K. W. CROSS, Emporia, Kans. JAS. WREN, Keytesville, Mo.

100 HEAD will be sold, about equally divided between bulls and cows. This will be the ranchman's opportunity as well as the breeder's and farmer's. Every animal is thoroughly guaranteed.

If you would like to have a catalogue giving the breeding of each animal to be sold, write

SECRETARY C. R. THOMAS, 225 West 12th Street, Kansas City, Mo.

under whose management the sale will be conducted.



us this fall and winter. It has sold every hog that we have shipped out and we advertise in a number of papers."

Leon Calhoun, who sells Poland-Chinas at Atchison, Kans., February 13, is offering one of the choicest lots of Poland-China sows to be sold in the northern part of the State this season. It will be remembered that Mr. Calhoun's principal herd boar, Prince Darkness, to which the greater part of the offering is bred, is a full brother to the sire of the world's champion, Meddler. Four of the sows included in sale are out of a litter sister of the champion boar, Missouri Black Perfection. The offering throughout is strong in the blood of Chief Tecumseh 2d and Chief Perfection 2d and Missouri Black Chief, and is strictly up to date. Mr. Calhoun has bought sale-toppers as often as any other breeder in the business. Several of the gilts in this sale have been sale-toppers in the fall sales. Mr. Calhoun will gladly send catalogues to all who apply for them. Write him at once, addressing him at Potter, Kans. Arrange to attend the sale, which remember is to be held at Atchison, on account of the good railroad facilities, and it will be easy for breeders to get from there to the annual meeting of the Standard Record Association at St. Joseph which convenes the next day.

M. S. Babcock's sale of Poland-China sows will be held at Nortonville, Kans., February 20, 1906, at which time he will sell 70 head bred to Harmonizer and Hot Shot. This will surely be the Hot-Shot-Harmonizer sale of the season. Harmonizer was certainly rightly named, as all those acquainted with the character of this product will agree. They are a strictly fancy lot and at the same time have the ability to make big weights at an early age. These gilts crossed with the great Hot Shot, and combining the breeding they do, will certainly produce winners for the breeders who have them next year. The Meddler gilts are from some of the best-bred dams in the herd and are mostly bred to Hot Shot. There are other sows by Chief Perfection 2d, Mischief Maker, etc., bred to Harmonizer to produce some more of the big fancy kind. The breeding of this offering is up to date throughout. They have been grown in a way to insure their future usefulness. They are the kind breeders and farmers are looking for. Write for catalogue at once and arrange to be at the sale or represented by bids in the hands of the auctioneers. February 20, 1906, is the date, and Nortonville the place.

The great annual live-stock event of the State to be held at Wichita, February 21-24, is announced in our advertising columns this week. February 23 is the date set for the sale of select Hereford cattle. The names of the contributors to this sale are: Robt. H. Hazlett, Eldorado, Kans.; Steel Bros., Richmond, Kans.; J. L. Carmean, Le Roy, Kans.; J. D. Fox & Sons, Atlanta, Kans.; August Johnson, Clearwater, Kans.; J. P. Sands & Sons, Walton, Kans.; and W. S. White, Mulberry, Kans. We believe we will be the best lot of Hereford cattle ever offered at a public sale in Wichita. We feel sure that most of the cattle will be in good condition, and are informed that they all will be, and there is no better breeding than will be represented in the pedigrees of a majority of the cattle to be offered. There will be in the sale a good many more bulls than cows, making it a good opportunity for those in need of good animals of useful age. There will be quite a good many that are good enough, both in breeding and individual merit to head any herd of pure-bred cattle. There will be also, a splendid opportunity for any person wanting to start a herd, or to add something good to a herd already started, as there will be females there of splendid individuality and excellent breeding.

Dietrich & Spaulding, Richmond, Kans., are preparing to meet the breeders of Kansas and adjoining States at their Grand Perfection Poland-China sale to be held at Ottawa, Feb. 10, 1906, in the famous sale pavilion, which will be heated and made comfortable for all who are in attendance at this Poland-China event. Breeders naturally expect an attractive offering with a chance to add a Perfection litter to their foundation stock or to secure a choice sow or gilt bred to the great champion boar. The catalogue shows attractions throughout and it is difficult to select the best for special mention. However, as a specimen, the Chief Perfection 2d sow is a litter mate to the great gilt sold in the fall sale. If anything a better individual, besides being a tried sow. The sister to Mogul is simply great and would please any breeder no matter how exacting. The sow Sunshine 100 is very fancy and will be appreciated although light in flesh on account of having produced a litter of ten fall pigs. Included in this sale is the mellowest Perfection E. L. sow the writer ever saw. The offering throughout is of great breeding and individual merit. Refer to the advertisement in this issue and if you have not already received the catalogue write for it at once.

Garrison & Studebaker.

Garrison and Studebaker, the big land agents at Florence, Kans., write as follows: "Col. Ed Green, of Morrison, Col., purchased the Sunrise Ranch, three miles northeast of Florence, and has brought his entire herd of Scotch Shorthorn cattle, Shropshire sheep, English Berkshire hogs, and Standard-bred horses. His stock is of the highest type and has won numerous prizes in the show-rings. Colonel Green has been in the business of breeding pure blood and fancy stock for 28 years in Illinois and Colorado; also being a live-stock auctioneer, gives him many advantages, and Marion County can feel proud to have one of the best herds of pure-bred stock in the State.

"This goes to show what can be done by advertising in a good paper, as Colonel Green saw our advertisement in the Kansas Farmer and wrote us saying he wanted a first-class stock farm, and we were only a few hours closing up the deal with him after we got him here to see the country. This is only one of many sales we have made in the past few months through the Kansas Farmer, but we make note of this sale on account of Colonel Green's being so well acquainted with our Kansas stock-breeders.

"The class of inquiries have been more satisfactory through the Kansas Farmer than through any other paper we advertise in.

Scientists who have made a study of agriculture prove beyond a doubt that good seeds must be planted if good crops are produced. Every farmer knows this fact to be true as well as the scientists know it, but many of them fail to profit by their knowledge. They go on year after year selecting from their corn

crop what appears to them to be the best ears for seed. Many of them are not familiar with the points that should be taken into consideration in selecting seed, and they are really lowering the value of their crop from year to year by not choosing the best ears. Then, again, when the same breed of corn is grown year after year on the same ground it tends to lessen the quantity and value of production. Buy good seed and be sure that it is good. It will pay for the outlay many times over in a single season. W. W. Vansant & Sons, Box 54, Farragut, Iowa, are offering seed-corn for sale which they have raised themselves and which is very carefully selected. Write them for prices.

An Opportunity for a Good Investment.

The Kansas Farmer desires to call attention to the real-estate advertisement of Albert King, of McPherson, Kans., which appears in this issue. The land advertised by Mr. King is entirely under his control and can not be purchased by any one except through his agency. This land consists of scattering quarter sections in different parts of Sherman County, and in most cases they adjoin highly improved farms, are close to schools and churches, and in good communities.

If any one wishes more land than Mr. King has in any one 800y; he will buy the 800y

The Food Value of a Soda Cracker

You have heard that some foods furnish fat, other foods make muscle, and still others are tissue building and heat forming.

You know that most foods have one or more of these elements, but do you know that no food contains them all in such properly balanced proportions as a good soda cracker?

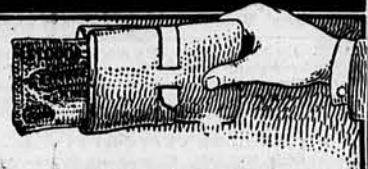
The United States Government report shows that soda crackers contain less water, are richer in the muscle and fat elements, and have a much higher per cent of the tissue building and heat forming properties than any article of food made from flour.

That is why **Uneeda Biscuit** should form an important part of every meal. They represent the superlative of the soda cracker, all their goodness and nourishment being brought from the oven to you in a package that is proof against air, moisture and dust—the price being too small to mention.

NATIONAL BISCUIT COMPANY

WHAT WOULD YOU DO WITH THIS \$1,000?

WE hereby agree to pay you \$1,000 in cash if we do not have the original letters, of our testimonials, on file in our office open for public inspection. We have many thousands, similar to those given below, and they are from people who would no more sign a misleading statement than you.



MADE \$365.00 PROFIT IN THE VALUE OF ONE COLT.

Minneapolis, Minnesota.
DEAR SIR:—A few months ago I purchased an Arion colt in Kentucky for \$235. This colt was poor and undersized and certainly not very promising. We commenced feeding him "International Stock Food" every day with his grain and this fall could have sold him for \$600, but consider him worth more money. I cannot guarantee such great results in every case but will guarantee that its use will always pay you a big extra profit. I also want to assure you, personally, that Dan Patch has eaten "International Stock Food" every day for over 3 years and you know what he has done. Also that my other stallions Cresceus 2:02½, Directum 2:05½, Arion 2:07½, Roy Wilkes 2:06½, Ed Patch 2:08½, Buttonwood 2:17 and my hundred blood mares and colts eat it every day. You will find it very profitable to use for your horses, colts and all other stock.
M. W. SAVAGE.

DAN PATCH 1:55½ MAILED FREE

We have a Beautiful 6 Color Picture of our Champion Pacer, Dan Patch 1:55½, size 16x24. This picture is entirely free of advertising and makes a fine picture for framing, as it gives all the records made by the pacing wonder. We will mail you one free, postage prepaid, if you will write us how much stock you own and name this paper. Write at once to

International Stock Food Co., Minneapolis, Minn. U.S.A.

INCREASES THE MILK, SAVES THE CALVES.

INTERNATIONAL STOCK FOOD CO. Marion, Iowa.
DEAR SIR:—I have used several kinds of stock foods but have never fed any equal to "International Stock Food". I have been feeding it to my milk cows with the most gratifying results. It not only keeps the cows in a healthy condition, but greatly increases the quality as well as the richness of milk. Its effects are unequalled in removing any irregularities at calving time, and its use before and after calving I consider a great benefit. As an appetizer, blood purifier and general tonic, I consider it to be all you claim, and the best I have ever used.
HENRY L. ALLEN, Prop. So. Side Dairy.

21 PIGS FROM ONE SOW— 52 PIGS FROM 3 SOWS.

INTERNATIONAL STOCK FOOD CO. Merrimac, Massachusetts.
DEAR SIR:—I have three sows and one farrowed 21 pigs, another 16 and the other 15. I fed these sows "International Stock Food", and it is splendid for sows and pigs. I also tested it for a little runt and in seven months, "International Stock Food" made this runt weigh 223 pounds.
Yours truly, NICHOLAS G. KINSMAN.

Kimball's Dairy Farmer Three Months for 10c

Jam full of sensible cow talk—short, boiled-down, right-to-the-point—good, practical stuff for you men who own the cows. Semi-monthly. You'll like it. Subscribe now.
E. R. SHOEMAKER, Editor and Mgr., Box 185, Waterloo, Iowa.



Eureka Boiler

or Steam Feed Cooker Saves half your corn or other feed. Saves labor in feeding. It will steam moldy hay or corn perfectly sweet. Makes corn stalks or straw perfectly palatable. Write for information.

John Deere Plow Co Denver Kansas City

NOTICE

Our large catalogue of everything for the horse, stable and driver will be ready for distribution soon. It is free. Send for a copy. Our goods are sold by dealers everywhere.

RACINE MERCHANDISE COMPANY, The Great Supply House, Racine, Wis.

POULTRY BREEDERS' DIRECTORY

BLACK LANGSHAN cockerels for sale at \$1. Two or more at 75 cents to close them out. Address orders to Morris Bend, Rossville, Kans.

BLACK LANGSHANS—My entire flock for sale cheap. Prize-winners. Eggs, \$1 per 15. O. S. Allen, 1629 W. 6th, Topeka, Kans.

CHOICE B.F. ROCK cockerels and pullets. Collie pups; send for circular. W. B. Williams, Stella, Neb.

EGGS FOR SALE—S. C. W. Leghorns, W. Wyandottes; \$1 per 15. W. H. turkeys, \$1.50 per 9. F. Menden geese, 20c each. W. African guineas, \$1 per 17. All guaranteed pure-bred. A. F. Hutley, Route 2, Maple Hill, Kans.

FOR SALE—Exhibition S. C. Black Minorca cockerels, \$2. I guarantee them. Address George Kern, 817 Osage street, Leavenworth, Kans.

MAMMOTH BRONZE TURKEYS and Golden Wyandottes. Young stock for sale. Address, Mrs. A. B. Grant, Emporia, Kans.

STANDARD BRED SINGLE COMB BUFF LEGHORNS—Headed by first prize pen Chicago show 1903 and took six first prizes and first pen at Newton 1904. Eggs \$3 for 15. S. Perkins, 801 East First Street, Newton, Kans.

S. C. W. Leghorns and Buff Rocks. Winners at State Fairs. Eggs \$1 per sitting. J. W. Cook, Route 3, Hutchinson, Kans.

TO GIVE AWAY—50 Buff Orpingtons and 50 Buff Leghorns to Shawnee county farmers. Will buy the chicks and eggs. Write me. W. H. Maxwell, 921 Topeka Ave., Topeka, Kans.

BARRED AND WHITE PLYMOUTH ROCK eggs, \$2 per 15. \$5 per 45. Hawkins and Bradley strains, scoring 93% to 94%. Mr. and Mrs. Chris. Bearman, Ottawa, Kans.

WHITE WYANDOTTES—Choice Cockerels, Pullets or Hens for sale cheap. S. W. Artz, Larned, Kansas.

BLACK LANGSHAN EGGS—From birds scoring from 93% to 95%, \$1.50 and \$2 for 15 eggs. Wm C Knapp, Pleasant Hill, Mo.

FOR SALE—Choice S. S. B. Leghorn cockerels, \$1 each. J. N. Sheldon, Route 1, McPherson, Kans.

FOR SALE—S. C. B. Leghorn cockerels, pure-bred, farm raised, "vigorous," from high scoring stock; \$1 each, f. o. b. Address T. D. Marshall, Modoc, Kans.

MORE first prizes than all other exhibitors combined at the late Kansas State Poultry Show in S. C. Brown Leghorns. Stock and eggs for sale. S. C. Short, Leavenworth, Kans.

FOR SALE—Eggs and Stock, Light Brahma and White Wyandottes. The highest scoring egg producing strain money will buy. Winning 1st on cock, 1st on cockerel, 1st on hen, 1st on pullet, 1st on hen; 74 scored an average of 94. Write for prices. Mrs. J. R. Kenworthy, Wichita, Kans.

BARRED ROCKS EXCLUSIVELY—J. E. Harbaugh strain. Large, heavy boned, fine clear; Barry's first-class birds. \$1 to \$5 each. Satisfaction guaranteed. Write for catalog to Lawndale Poultry Yards John D. Ziller, Flawatha, Kans.

EGGS—S. C. White Leghorn, exclusively. Blue Ribbons at Great Bend, Emporia, Wichita; 15 for \$2. W. C. Watt, Walton, Kans.

M. B. TURKEYS FOR SALE—Toms weigh 25 to 30 pounds. \$5; hens, 16 to 18 pounds, \$3. S. G. Caughey, Asherville, Kans.

ROSE COMB BROWN LEGHORN COCKERELS, from fine egg-laying strain. Bertha Graham, Bucklin, Kans.

FOR SALE—Pure bronze turkeys, heavy boned, beautiful birds. Wm. Newcomb, Welds, Kans.

BLACK LANGSHANS—My stock is better than ever. Cockerels and pullets, \$1 and upward. Price cheap, quality considered. Now is the time to buy and mate the birds. Write for prices and descriptions to P. O. Coons, Spring Hill, Kans.

S. C. B. LEGHORNS EXCLUSIVELY—40 pure bred cockerels for sale, \$1 each or \$9 per dozen P. T. Thomas, Route 1, Irving, Kans.

NICE BLACK LANGSHANS—For sale cockerels, hens and pullets; \$1 each. Mrs. Geo. W. King Solomon, Kans.

WHITE PLYMOUTH ROCK COCKERELS, farm raised, large boned, yellow legs, bay eyes, \$1 each. Eggs for hatching in season, 15 for 75c. D. S. Thompson, Rural Route 1, Welds, Kans.

MAMMOTH BRONZE TURKEYS and Barred Rock Chickens for sale. J. W. McDaniel, Cunningham, Kans.

BARRED PLYMOUTH cockerels from first prize winners for sale cheap if taken at once. Also a few Silver Pencilled Wyandotte cockerels. Mrs. Charles Osborn, Eureka, Kansas.

S. C. B. LEGHORNS—Closing out sale of my entire flock of hens, cocks and cockerels. A bargain come quick. J. A. Kauffman, Abilene, Kansas

MAMMOTH Bronze Turkeys, Silver Laced Wyandotte cockerels for sale. Address Francis Long, Madison, Kans.

FOR SALE—Sure Hatch Incubator, 100 egg size good condition, \$8. Mann's Bone Cutter, number 6, good as new, \$5. E. W. Caywood, Clifton, Kans.

AMERICA'S CENTRAL POULTRY PLANT can furnish strictly pure Black Buff, Black and White Langshans Buff Leghorns and Light Brahmans. Write early and get your choice. J. A. Lovette, Prop., Mullinville, Kans.

MAMMOTH BRONZE TURKEYS for sale. Inquire of Mrs. T. M. Fleming, Fontana, Kans.

SINGLE COMB WHITE LEGHORN cockerels \$1 each; two or more 80 cents each. Fine white pure, thoroughbred birds. Also a few Barred Plymouth Rocks, barred to the skin, fine, pure and vigorous; hens, cockerels, cocks and pullets, \$1 each; two or more, 80 cents each. All of our customers are very well pleased. We will make reductions on large lots. Meadow Poultry Farm, Coulterville, Ill.

FOR SALE—150 B. P. R. and W. P. R. cockerels and pullets; strong, vigorous, cockerels, \$2 to \$5; pullets, \$1 to \$2.50. Exhibition cockerels matter of correspondence. Mr. and Mrs. Chris Bearman Ottawa, Kans.

LIGHT BRAHMAS More prizes than any breeder in the state; 10 firsts this season. Eggs, \$150. Cockerels, \$2 to \$4. T. F. Weaver, Blue Mound, Kansas

FOR SALE.

15 varieties pure-bred chickens, ducks, geese and turkeys. Fowls and eggs at low prices. Write for catalogue. M. H. HINKER, Muskate, Miss., R. R. 4.

The Poultry Yard

Tuberculosis—"Going Light." What is the matter with our chickens? Some kind of a distemper is destroying the poultry in our part of the State. The chickens begin to droop, will not eat, their combs turn black, and in a few days they die. On examination we find that there is not much left but the skeleton and feathers. We have tried nearly all known remedies with little or no success. They have access to the green wheat, also alfalfa leaves and I have fed ground barley, with pulverized genetian and cayenne pepper, as a tonic, which has never failed before to restore them to health. Dickinson County. A. RAMSEY. Your chickens have a disease that is known among poultrymen as "going light," somewhat akin to consumption or tuberculosis. As a rule, it only affects one or two fowls in a flock and not much has been done towards securing a remedy for it, the fowls being allowed to linger till they die. Where many are affected, we would recommend placing them by themselves. See that they are free from lice and feed the most nourishing food. If they will not eat of their own accord, the cramming process would have to be used.

Turkey-Tom Question. How many turkeys can be used for one tom? Answer.—Not over five—three or four are better.

Roup. What ails our turkeys? About a month ago there was a lump started on one of them, just below the eye. Since then it has spread over the side of the head, covering the eye at times. In the last three or four days lumps have started on several more; some of these have lumps on both sides of the head. There is a watery discharge from the eyes and their noses seem to be stopped up. They seem hearty and eat as well as if not affected. They run at large and roost in a house with the chickens. Their feed consists of corn, kafir-corn, sorghum-seed and millet-seed. Is the disease contagious, and is there a remedy? J. E. HARBAUGH. Comanche County.

Answer.—Your turkeys are suffering from roup, a disease resembling diphtheria in the human family. It comes first from a bad cold. See answer to N. V. S. in this issue. Yes, the disease is very contagious; generally through the drinking water. The sick ones should be isolated at once.

Fowls Take Cold. Please tell me through the Kansas Farmer what is the cause and cure for my ailing roosters. The first symptoms are a lameness in the back, accompanied by bowel trouble. They wobble when they walk and are soon unable to get up, but lie around on their sides for several days and finally die. My chickens have the range of the farm and run to millet and alfalfa stacks, and are fed a little corn once a day. They eat well while sick. MRS. J. B. HERRINGTON. Shawnee County.

Answer.—Your fowls may be overcrowded at night, causing them to get too warm, and when let out in the morning they catch cold and cause the trouble. Look them over for lice, as symptoms described often occur from this cause. Dust with insect powder and paint the roosts with lice-killer.

Roup. My hens have taken some disease since Christmas. It begins with a wheezing sound in the windpipe; then the head swells until the eyes are closed and there is looseness of the bowels in some cases. They had been healthy all the fall and laid better than my neighbors' hens. I have 100—mostly Plymouth Rocks. Can you give me a remedy? N. V. S. Osage County.

Answer.—Your chickens are affected with roup. This is a difficult disease to cure. Separate the sick from the healthy ones. Anoint their heads with carbolated ointment, after having first washed the head with warm soup suds. Pour down their throats half a teaspoonful of coal-oil, in which has been put a few drops of carbolic acid.

'Tis impious in a good man to be sad.—Young.

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Rose and Single Comb White Leghorns and White Wyandottes IN ALL THEIR PURITY Unsurpassed in every respect for beauty, utility and winter laying. At State show the largest in the United States, just held at Topeka Kans. 26 prizes were awarded me. Write for my catalogue, giving prizes on stock and eggs. W. S. YOUNG, McPherson, Kans. When writing mention this paper.

Rose and Single Comb White Leghorns and White Wyandottes, in all their purity, unsurpassed in every respect for beauty, utility and winter laying. At the largest State poultry show in the United States just held. 26 prizes were awarded to me. Write for my catalogue giving prices on stock and eggs. W. S. Young, McPherson, Kans.

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TABLE OF CONTENTS

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Profit in Stock-Feeding

We may view the cow, steer, hog, sheep, etc., simply as a machine for the manufacture of milk, meat, wool and other kindred products. The farmer's grains and fodders, therefore, represent the raw material.

Now the question of cost of production is fully as much a problem of the skillful feeder as it is to the largest manufacturer. The latter, however, can increase the price of his finished product in proportion to the cost of the raw materials and labor, but the feeder must depend upon the market price for his produce—which price is fixed by the great law of supply and demand.

It is said that there is about 7 pounds of fat in every bushel of shelled corn. If beef is worth only 5 cents per pound and shelled corn 60 cents per bushel, it would be more profitable for a farmer to sell the corn rather than convert it into beef.

Professor Henry of the Wisconsin Station shows many feed tests where the cost of beef was as high as 12 cents per pound. And so the feeder must exercise great judgment in the selection of a ration that will produce his finished product the most economically.

Perhaps some feeders pay too little attention to the digestion. Are not the organs of digestion responsible for every pound of weight produced, and every drop of milk? And in a herd of thirty steers how many, on an average, have perfect digestion and an appetite that will cause them to eat the food of production, that food in addition to what is regularly required to sustain life and repair waste?

Remember it is only the food that is digested and assimilated in addition to what is required to sustain life that produces the profit. The influence of food-tonics here manifest themselves with peculiar emphasis. Stock foods have come to be recognized by the best authorities for the purpose of improving the appetite, regulating the bowels, and their mildly medicinal effect on the system generally.

But to procure these food-tonics in the ordinary way, of the druggist, costs too much, so that, like the corn at 60 cents per bushel, it doesn't always pay. Even stock-food manufacturers, many of them get from 15 to 25 cents per pound for such preparations, believing that from the benefit to be obtained, the feeder will gladly pay the price, and so they do.

Dr. Hess Stock Food, formulated by Dr. Hess (M. D., D. V. S.) contains the digestive tonics recommended by science, the salts of iron for the blood, the nitrates to assist nature in expelling waste material through the skin and in the urine, and laxatives for the bowels. And this preparation costs the feeder but 5 cents per pound in 100 pound sacks, and 7 cents in Canada and extreme West and South. It actually costs the feeder less than a penny a day for a horse, cow or steer, and but three cents per month for the average hog.

Consider, if you please, the few pounds of additional increase in weight or milk necessary to pay for this amount of tonics, etc., such as the medical institutions recommend, and the great authorities on feeding are advocating through farm papers. Bear in mind, also, that Dr. Hess, who is a regular doctor of medicine and also veterinary surgery, is competent to prepare such a compound. If you want further information regarding Dr. Hess' Stock Food—write Drs. Hess & Clark, Ashland, Ohio, and get a copy of their written guarantee and a veterinary book free. Chas. F. Moser, Augusta, Kans., says: "I have been using Dr. Hess' Stock Food for some time, and find it is all right, and just as good a food as that I have been feeding that cost me more than as much again as yours. Instant Louse Killer is also a sure thing."

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With no other farm-product does the crop depend so much upon the nature of the seed planted as with seed-corn. In fact, the seed is the foundation of any crop, and it is not only a matter of germination, but also its vigor and vitality, produced by careful and scientific breeding with the added environments where nature, climate, and soil all contribute to the elements essential to the production of the best seed-corn that can be produced.

Among other essentials for the preparation of seed-corn, there is no one thing of more vital importance than properly grading all kernels to a uniform size, as it is impossible for any planter to drop uniformly the correct number of grains if the seed is ungraded and of uneven size, and especially is it a fact that has been repeatedly demonstrated that carefully graded seed-corn often produces from 20 to 40 bushels better yield per acre than ungraded seed of the same variety.

These pressing facts were discovered by the Ratekin Seed House, of Shenandoah, Iowa, who for 25 years past have been engaged in the growing of improved varieties of corn for seed. They had a special machine built years ago for the grading of all their seed-corn sent out. This was long before the edge-drop planter was introduced. The perfect grading done by this machine was such that the farmers who planted their improved varieties of seed almost invariably obtained a yield of from 20 to 40 bushels more per acre from their crops than their neighbors across the road who planted the ungraded scrub varieties, and this is the reason why the Ratekin Seed House has made Shenandoah, and the State of Iowa famous, and has enabled them to build up the largest seed-corn trade in the world.

In addition to the handling of seed-corn, the Ratekin Seed House handles a full line of every kind and sort of farm, field, and garden seed, including seed potatoes. The latter being one of their leading specialties. Their seed advertisement appears in this issue of this paper. They have also just issued a complete, illustrated catalogue and it is free for the asking. Write for it to-day. A postal card will bring it to your door. Address Ratekin's Seed House, Shenandoah, Iowa.

Did You Get One?

About a year ago this paper printed a notice to readers that a new and unique veterinary book had just been published and was being sent out free upon request by one of its advertisers. The edition was two hundred thousand copies, and we are now informed that this vast number has been exhausted by the requests that have come from all parts of the country, and that a new edition is ready for distribution. If you did not get one you have a chance now. The book is "Fleming's Vest-Pocket Veterinary Adviser," durably bound, indexed and illustrated, and contains a great volume of veterinary information boiled down to vest-pocket size. Over a hundred subjects are covered, and the book is a good one to have for reference. Address Fleming Bros., 212 Union Stock Yards, Chicago, and mention this paper.


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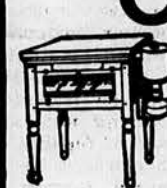
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Dairy Interests

A Balanced Ration.

My cows consist of Jersey grades with one to three top crosses of registered bulls. Some are extra good and some almost poor milkers and butter cows. I want to feed them so as to get all the butter I can and do it at a reasonable profit. I have plenty of hay of my own growing, alfalfa and clover, and plenty of corn-fodder, but have to buy all grain feed. Ear-corn costs me approximately 40 cents per bushel; wheat bran, \$15 per ton; oats 37 cents per bushel, and hard to get at that; so I would rather not feed them if anything else will take their place like cottonseed-meal, of which I have about two tons on hand left over from last year, \$25 per ton. I have no figures at hand by which I can make up a balanced ration—will you please do it for me? What amount should I give them per 1,000 pounds of live weight. Ought I to feed the poor milkers the same as the good ones. These cows have been lying out in a dry yard at night until just recently I have been confining them in rigid stanchions on a board floor and I find there has been quite a shrinkage in the milk since they have been so confined. Will they be apt to regain this shrinkage when they become used to the stanchions? Will it pay me at the price of corn to have it ground? Cows do not eat ear-corn well.

JOHN BRAZILTON, JR.

Doniphan County.
You have all the roughness necessary for the profitable feeding of dairy cows, namely: alfalfa, clover and corn-fodder. It is needless to buy wheat bran or cottonseed-meal when you have alfalfa and clover, for your protein is supplied in those plants.

To balance your ration on the feed you have it will only be necessary to buy corn and feed in the proportion of 18 pounds of alfalfa to 8 pounds of corn. For a variety of feeding this ration may be changed to 15 pounds of clover hay, 6 pounds of corn, 15 pounds of corn-fodder and 3 pounds of cottonseed-meal; or, 15 pounds of corn-fodder, 15 pounds of alfalfa, 5 pounds of corn, and 2 pounds of cottonseed-meal.

The net nutrient requirement for maintenance per thousand pounds weight for dairy cows is, .7 pounds protein, 7 pounds carbohydrates and .1 pound fat. If a cow gives 40 pounds of milk a day, testing 4 per cent she will require 1.87 pounds protein, 8.56 pounds carbohydrates and .64 pounds fat for the production of that amount of 4-percent milk. If she weighs 1,000 pounds, the above maintenance ration should be added to this, which will be 2.57 pounds of protein, 15.56 pounds of carbohydrates, and .74 pounds of fat. If she gives only 20 pounds of 4 per cent milk her nutrient requirement for milk production would be .93 pounds of protein, 4.28 pounds of carbohydrates, and .32 pounds of fat.

Young growing heifers require more food for maintenance than matured cows, and those giving high per cent of butter-fat require more than those giving milk low in butter-fat. You would do well to test each cow and know definitely whether or not she is paying for her feed. If you have no Babcock tester, send samples of milk to the college creamery and we will test it for you free of charge. If you have a feed grinder, it will pay to grind your corn, especially for the cows that are old and have poor teeth. If your cows are young it is not necessary to grind the feed, but always break the ears in small nubbins before feeding.

Give your cows all they will eat up clean, feeding in the above proportions. Do not use stanchions if you have any other way of fastening your cows in the barn, for rigid stanchions are very uncomfortable and cows that begin to shrink in their milk-flow from uncom-

fortable conditions never entirely regain during that lactation period.
CHAS. W. MELICK.

A Balanced Ration.

Will you form me a ration of corn-chop at \$16 per ton and good alfalfa hay at \$8 per ton. Would you advise feeding any oil-meal at \$32 per ton? The cows weigh 900 to 1,000 pounds, giving 18 to 25 pounds milk per day. One cow weighs 1,000 pounds and gives 40 pounds per day. One cow weighs 1,000 pounds and gives 57 pounds of milk per day.
C. F. KINKEAD.

We have secured excellent results by feeding eight pounds of corn-chop with 18 pounds of alfalfa hay per day for a cow weighing 1,000 pounds and giving 20 pounds of milk, besides letting the cow have all the straw or corn-stover that she wishes to eat. By this ration I have reference to alfalfa hay that is of good quality and of the third or fourth cutting. If hay is of a low grade or is of the first or second cutting, I suggest that you add two or three pounds of bran to this, or a pound of oil-meal. The reason for this is that generally the first and second cuttings of alfalfa are lower in protein than the third and fourth cuttings. It is also more stemmy and hence less nourishing, consequently it is advisable to substitute bran to make up for this coarseness. Sometimes the second cutting of alfalfa that is grown on high land is nearly as rich as the third or fourth grown on low land.

Alfalfa hay fed to a dairy cow should always be of the best quality, both in brightness and per cent of protein, in order to give good results. If silage is obtainable, I should modify it slightly. I should feed about 20 pounds of silage, 12 pounds of alfalfa hay, 6 pounds of corn-chop, and two pounds of linseed meal. If you have cows that give 57 pounds of milk per day, it is advisable to feed in the above proportions of feeds indicated and as much as the cow desires to eat. We are glad to know that you have cows of the above capacity. We wish that there were more such dairies as yours.
O. BRF.

Cottonseed-Meal for Cows.

Editor Kansas Farmer:—In the January 11 issue of the Kansas Farmer is a question on feeding cottonseed-meal to milch cows, asked by Chas. E. Thuma and answered by C. W. Melick, and the answer seems so misleading that I can not help giving my experience of over four years of feeding cottonseed-meal to milch cows:

I am only a common farmer and know nothing about a balanced ration except what I read in the Kansas Farmer, Farm and Ranch, and other farm papers, and my own experience. I have been feeding cottonseed-meal and hulls to dairy cows, to make butter, for four winters and fed one feed per day through the last year. We milk fifteen cows and are now feeding about 3 1/2 pounds of cottonseed-meal per head per day with a large bucket of hulls twice a day.

I am feeding nothing else but wheat and oat-straw and cane hay. My cows look nice and sleek all through the winter, and most of them come fresh in fall and winter with no bad effects whatever. They have no difficulty in dropping their calves or cleaning themselves. We sell from 30 to 60 pounds of butter per week, to the best trade in Guthrie. We have regular customers among the best class, never have more than the demand, and have sold butter to some of them for 8 years.

I live nine miles from the large cottonseed-mill (Coyle & Co.) in Guthrie. Last year I paid \$1.10 per hundred weight, or \$21 per ton and return sacks. This year meal is \$24 per ton and hulls \$4 per ton.

I put about 1,000 pounds of hulls on a wagon with side-boards on it, by tramping it in hard. I put these hulls in a bin and spread meal over them and salt them and mix thoroughly with pitchfork and feed a large bucket heaped twice per day.

Write the Oklahoma Experiment Station for balanced ration of cottonseed meal for milch cows.

We have no trouble churning and the

WHAT THE WORLD'S BIGGEST USERS HAVE TO SAY ABOUT CREAM SEPARATORS.

Lincoln, Neb., December 4, 1905.

Our separator experience date back about ten years. At that time the De Laval separator was already recognized as the best machine; though its superiority was not quite so fully established as it is at the present time. In those earlier days, through the purchase of other creameries in which the machinery was already installed, we had opportunity to use various other makes of separators; however, none of them did the work as well as the De Laval, either as to capacity for clean skimming or ease and simplicity of operation.

Before the advent of the hand separator the Beatrice Companies operated between five and six hundred De Laval power separators and there were many instances where our experience led us to deliberately replace some other make of machine with a new De Laval, paying good, hard-earned money for same.

There is no disputing the fact that the De Laval power separator is a better machine in every respect than any other make. Since the hand separator came into general use in this Western country we have had further opportunity to make comparisons and in our opinion there is no other machine as yet manufactured which compares with the De Laval in capacity for skimming, clean skimming, ease and simplicity of operation.

The large "Alpha" De Laval machines we owned and operated in years gone by have practically all left our territory, having been sold as second hand machines to creameries in the East where the whole milk system is still flourishing, but to replace these larger machines we have in the past five or six years, sold to farmers throughout these Western States and Territories approximately thirty-five thousand De Laval cream separators which are operated by hand or tread power.

BEATRICE CREAMERY COMPANY,
By W. F. Jensen, Secretary.

If the above is the kind of experience you would profit by a De Laval Catalogue and any desired particulars are to be had for the asking.

The De Laval Separator Co.

RANDOLPH & CANAL STS., CHICAGO.
1213 FILBERT STREET, PHILADELPHIA.
9 & 11 DRUMM STREET, SAN FRANCISCO.
General Offices:
74 CORTLANDT STREET NEW YORK.
109-111, YONGVILLE SQUARE, MONTREAL.
75 & 77 YORK STREET, TORONTO.
1416 PRINCE'S STREET WINNIPEG.

To You Who Milk and Sell Cream There are Two Roads

TO

The Final Destination of Your Products

One is a Toll road.	The other is free.
One is a long road.	The other is short.
One is unattractive.	The other is beautiful.
One is full of obstacles.	The other is clear and smooth.
On one are many delays.	On the other is rapid transit.
On one the trip is expensive and tedious.	On the other the trip is economical and pleasant.
On one the trip is disappointing and you dread to repeat it.	On the other the trip is fascinating and you repeat it often.
One of these roads leads to failure.	The other to success.
At the end of one of these roads is a promise.	At the end of the other is the cash.
One of these roads is the old way.	The other is the "Blue Valley" way.

WHICH ONE ARE YOU TRAVELLING?
"BE SURE YOU'RE RIGHT, THEN GO AHEAD."

Send your Cream to us, Our system protects you.
Yours respectfully,

BLUE VALLEY CREAMERY CO.,
ST. JOSEPH, MISSOURI.

TUBULARS WRING GOLD FROM MILK

Tubular butter brings 25 to 35 cents. Cream is worth only one cent for stock food. Yet many farmers have no separator—only half skim their milk by setting—lose 24 cents on cream fed to stock—and wonder why dairying don't pay. Tubulars stop this loss.

Tubulars get the last drop of cream out of the milk—make big profits. Tubulars are the only modern separators. Notice the low cost and enclosed gears. Write for catalog 8 1/2
THE SHARPLES SEPARATOR CO., WEST CHESTER, PA.
TORONTO, CAN. CHICAGO, ILL.

Sharple's
TUBULAR
CREAM SEPARATORS

KIRKPATRICKS POLAND CHINAS Public Sale. Expenses off price. Buyer satisfied or pig returned and money refunded. Splendid lot of young boars ready for service. A few fancy ones for the showman. 25 bred gilts guaranteed safe in pig to Pathfinder, half-brother of Medler. No better pigs not fashionably bred in the corn states. Have been fed and raised expressly for prolific and profitable breed stock. Write or come and see, H. M. KIRKPATRICK, Walcott, Kansas.

hard lumps have never shown up. Cottonseed-meal makes firm, hard butter even in summer. E. Y. TRUMAN, Oklahoma.

The National Dairy Show.

E. Sudendorf, secretary of the National Dairy Show Association, writes as follows: "One of the subjects to be discussed before the National Dairy meeting at the Dairy show in February is, 'The Value of Barnyard Manure.' We are going to a considerable expense to get Prof. Harry Snyder, agricultural chemist at the Minnesota College. He will speak at two different times, February 22 and 23, and his subjects will be as follows: 'The Value of Barnyard Manure;' 'How to Make More Barnyard Manure;' 'The Care of Barnyard Manure;' 'When and How to Apply Same.'"

Do You Know

How to keep odors from milk? At what age a cow is most productive? How to make the best butter from separator cream? How to care for separator cream? That there are two trillion globules of butter-fat in a quart of milk? How to wash butter for best results? How to scum butter? How to get most profit from skim-milk? What makes "white specks" in butter? What cream separator will give you best results? All these and a hundred other questions are answered in our new book "More Milk Money." Free to you if you tell us how many cows you keep; send address of a neighbor who keeps cows and mention this paper. Write to-day. The Omega Separator Co., 28 Concord St., Lansing, Mich.

The Grange

"For the good of our Order, our Country and Mankind."

Conducted by George Black, Olathe, Secretary Kansas Grange, to whom all correspondence for this department should be addressed. News from Kansas Granges is especially solicited.

NATIONAL GRANGE.

Master..... Aaron Jones, South Bend, Ind. Lecturer..... N. J. Bachelder, Concord, N. H. Secretary..... C. M. Freeman, Tippecanoe City, Ohio

KANSAS STATE GRANGE.

Master..... E. W. Westgate, Manhattan Overseer..... A. P. Reardon, McLouth Lecturer..... Ole Hibner, Olathe Stewart..... E. C. Post, Spring Hill Assistant Stewart..... Frank Wiswell, Ochtree Chaplain..... Mrs. M. J. Ramage, Arkansas City Treasurer..... Wm. Henry, Olathe Secretary..... George Black, Olathe Gatekeeper..... G. F. Kyner, Newton Ceres..... Mrs. M. L. Allison, Lyndon Pomona..... Mrs. S. M. Phinney, McLouth Flora..... Mrs. S. J. Lovett, Larned L. A. S..... Mrs. Lola Radcliffe, Overbrook

EXECUTIVE COMMITTEE.

Henry Rhoades, Chairman..... Gardner E. W. Westgate..... Manhattan George Black, Secretary..... Olathe J. T. Lincoln..... Madison O. F. Whitney..... Topeka, Station A

GRANGE ORGANIZER.

W. B. Obryhim..... Overbrook

Grange Notes.

During the months of October, November and to December 4, five new granges were organized in Colby County, where there were none before, and the granges are rapidly increasing in membership.

The Grange in Kansas did not increase as rapidly last year as we should like to have it, nor as rapidly as in some of the New England States. Yet we added to the roster ten subordinate granges and very materially increased the grange membership.

We have been asked the question recently from several localities in Kansas, "What can we do to attract attendance in the grange and create an interest grange work?" It has been shown that this is a hard question to answer, for the reason that what proves to be very interesting in one section and attracts a large attendance is a failure in another locality. We are informed by the secretary of Manhattan Grange No. 748, that after the election and installation of their officers for 1906, their lecturer, as the head of an especial committee, was preparing a program for the year for the use of their grange; and when proposed, if approved by the grange, a sufficient number of copies of this program will be printed for distribution among the members. This plan was practiced last year by this grange with satisfactory results. Their program for the year is now in print. It is a neat folder about large enough to be placed in an envelope. It has a very attractive title page and is headed, Grange Topics for 1906. Fourth Quarter.

Quotations for the new year—Mrs. Barnes. "Mental development in the home"—Mrs. Aiken. "Management of soils"—I. S. Smith. "Fruit on the farm"—Professor Dick-ens.

OAK HEATER \$3.90

STOVES FREIGHT PAID

We are the largest stove dealers in this country selling direct from the foundry to the purchaser FREIGHT PAID. Our immense stove business is all done by mail, and is built on the solid foundation of satisfaction or money back in every case. Every stove we sell is fully warranted and broadly guaranteed, and the purchaser must be satisfied.

AIR TIGHT \$8.25 HOT BLAST

fed in every particular or the purchase price will be refunded. Before you buy a stove send for our large free 1,000 page merchandise catalog. It contains hundreds of handsome stove bargains not to be found anywhere else. No matter what sort of a stove you want we have it, and our price—freight paid—will lay it down at your depot cheaper than you can buy it from your home dealer, or anyone else. And our guarantee makes you safe. You may order any stove shown in this advertisement or in our large catalog; if it isn't just as we claim, ship it back; we will pay freight charges and you won't be out a cent by the deal. Hundreds of farmers have purchased stoves from us and have all been

HARD COAL BASE BURNER \$19.95

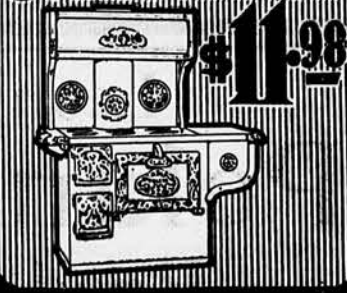


If you want to save \$150 to \$250 a year, ask us for full particulars about our special money-saving plan—there's a 10 per cent off list price on everything you buy by this plan. Write for it today.

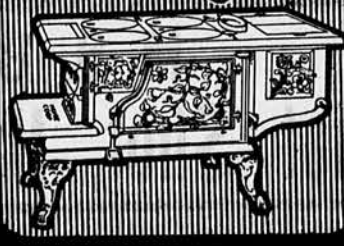
Co-Operative Society of the National Supply Co., Lansing, Mich. Chicago, Ill.

more than pleased with their bargains and recommend us to their neighbors—that's the secret of our rapid growth. You will do the same. When you buy a stove of us you know just what it is going to cost you; you don't have to figure on the freight. You just send the amount of the purchase price and we deliver it to your station,—you simply haul it home. If you don't find a stove in this advertisement that suits you, send for the catalogue; it is the greatest buyers' guide published; it will show you an easy way to save money on all your household supplies—tells how to make every dollar that you spend do more than double duty.

STEEL RANGE \$11.98



COOK STOVE \$7.75



3 FEEDS FOR ONE CENT "INTERNATIONAL STOCK FOOD" For sixteen years "International Stock Food" has been the universally recognized leader as a very high class medicinal preparation to be fed in small amounts with the regular grain allowance in order to secure better digestion and assimilation, so that each animal would obtain more nutrition from all grain eaten. It is prepared from powdered medicinal Roots, Herbs, Barks and Seeds and purifies the blood, tones up and permanently strengthens the entire system and cures or prevents many forms of disease. Scientific authorities prove that the average farm animal only digests about 65 per cent of the average kinds of farm feed. The every day use of "International Stock Food" will cause animals to digest from 65 to 75 per cent. In this way "International Stock Food" is a great grain saver as it only costs ten to fifteen cents per month to feed it to a horse, fattening steer or cow and only five to eight cents per month to feed it to a hog. Saves \$10 in grain for each horse, steer, etc. At the time of our last war we paid the United States Government \$40,000 as a war tax, because "International Stock Food" was a high class medicinal preparation, while Many Other Kinds were allowed to sell without paying the war tax because they filed a statement, with the Government, claiming that they did not use any medicinal ingredients and did not claim any medicinal results. This explains why the market is flooded with cheap and inferior preparations. We have always claimed that you cannot afford to use any preparation of this kind except on a medicinal basis because without medicinal qualities they would not be worth medicinal prices. Any Truthful Agricultural Chemist Will Tell You The Same Thing. You eat medicinal ingredients (salt, mustard, vinegar, pepper, etc.), see United States Dispensary, with every mouthful of your own food and science proves that you thrive better for their use. It is just as reasonable to expect your stock to thrive better by using small amounts of "International Stock Food", every day, which contains the same Roots, Herbs, Barks and Seeds that animals eat freely when running wild. M. W. Savage, who originated "International Stock Food" is a practical farmer and stock breeder and also a druggist and he positively guarantees that the use of "International Stock Food" will always be beneficial for stock in any condition and that it can even be taken into the human system in perfect safety. We guarantee that one ton of "International Stock Food" will make a clear profit of \$300.00, over its cost, in fattening hogs or steers. If a scale test fails to prove this we do not want a cent of your money. Our business principle is that we must make you more money than you can make without feeding "International Stock Food" and we take all the risk. Could you possibly ask for a fairer proposition? "International Stock Food" will fatten cattle or hogs in 30 days less time and save feed. It will make Calves, Colts, Lambs or Pigs grow amazingly during every month of the year and will keep them growing rapidly even during the cold weather. It will make cows give from one to three more quarts of rich and very healthful milk every day and keeps cows healthy so that tuberculosis will be prevented and your cows will raise extra vigorous calves. It cures and prevents scours in calves. "International Stock Food" will make brood sows raise more pigs and they will have stronger vitality. By purifying the blood and stimulating the system it cures and prevents Hog Diseases and keeps pigs, shoats and fattening hogs healthy and gives rapid growth. "International Stock Food" has an extraordinary sale to hog breeders to prevent Hog Cholera, and only costs 2¢ 3 Feeds for One Cent.

February. Open Meeting. 11-12 a. m.—Social hour. 12-1:30.—Demonstration, in charge of the sisters; first aid to the hungry. Music. "How may we enhance the comforts and attractions of our homes, and strengthen our attachments to our pursuits?"—E. W. Westgate. Music. "Early potatoes as a profitable market crop."—W. H. Hepler. General discussion. Every month during the entire year is provided with interesting subjects awarded to some of their members and will be treated by written papers and general discussion. In addition to the foregoing, we would call the attention of the subordinate granges in Kansas to the subjects in the National Grange monthly edited by the Master or Lecturer of the National Grange. The topics for

Cleveland Cream Separator Direct to You. The Only High Grade Separator Sold at a Reasonable Price. Easy Running Because:— The Cleveland is the only all ball-bearing separator made. To compare ball-bearings with any other bearings made is like comparing a bicycle with a grind-stone. Durable Because:— The Cleveland has the fewest parts of any separator made in the world. The fewer parts in a separator the less wear—the less repair. Easy to Clean Because:— The fewest parts and the Cleveland skimming device made of aluminum. We were the first. The Cleveland Cream Separator Co. Dept. A, 34 Michigan Ave., N. W., Cleveland, O.

75c PAINT BOOK FREE I have made at great expense a big, handsome paint book the finest ever printed. It tells all about my Made-to-Order Paint—Best in the world. Book has large double pages of color samples, great variety of tints. Get the book; it's free. Write today. O. L. Chase The Paint Man 701X Olive Street St. Louis, Mo.

HOGS WILL MAKE YOU RICH Send 10c for a whole year's trial subscription to the best hog paper in the world. Free sample. AGENTS WANTED Sell \$11 bottle Sarsaparilla for 35c; best seller; 200 per cent profit. Write today for terms. F. E. Green, 115 Lake St., Chicago

February are, "Why Should a Parcel-Post be Established by the Government?" "How can Inspection of Granges be made most helpful to the Order?" "What Rules should be Observed in Preparing a Supply of Seed for the Season's Crop?"

March.

"Why do We Favor National Aid for the Improvement of Highways?" "Are the Farm Implements in Order for the Season's Business?"

The National Grange Monthly Bulletin will be sent to the lecturer or secretary of each subordinate grange in Kansas as soon as the roster of the granges in Kansas is sent to the lecturer of the National Grange. To accomplish this the secretary of each grange must send to the Secretary of the State Grange the names and post-office addresses of the master, lecturer and secretary, as soon as possible.

The Kansas Anti-Liquor Society, whose advertisement appears in another column of this issue, are sending out to all who write them and enclose a stamp, a prescription for the cure of the liquor habit, also one for the cure of the tobacco habit. Either prescription can be given secretly. We understand that they have had very great success with their prescriptions. The only request they make is that parties sending for the prescriptions do not sell them but give free copies to their friends. Their address is Room 77, Gray Building, Kansas City, Mo.

THE FAMOUS FANCY DUROC - JERSEY BRED SOW SALE

**Blood of the Winners
Fine Smooth Individuals
Attend this Great Sale**

**At CONCORDIA, KANSAS,
Tuesday, February, 13, 1906**
Write for Catalogue To-Day.

42---Queens of the Breed at Public Auction---42

Consisting of 6 large fine tried sows, 6 great big-boned, good useful yearling sows, 18 fine, rich-colored, fancy fall and summer yearlings, 12 very toppy, fancy, smooth and mellow spring gilts, representing a greater variety of the latest and most fashionable blood, with the individuals to back it up, than will be drove through another sale ring this year. Bred early, have the size, style and finish that we all are striving for. Write for the finest catalogue to be seen this season. It accurately describes them. Free hotels, good useful stock at your own price, are the attractions. Come to the sale; not for our benefit, but for the good of your herd and the dollars this high class stock will make you.

Mall bids sent to the auctioneers, or to H. A. Heath, of the Kansas Farmer, honorably treated. Address all bids in our care at Concordia, Kans., after the 5th of February.

John W. Jones & Son, - Delphos, Kansas

AUCTIONEERS—Col. John Brennan, Col. G. B. Vanlandingham.
CLERK—H. W. Barber.

M. S. BABCOCK'S Hot Shot, Harmonizer Sale

Poland-China Bred Sows

Nortonville, Kansas, February 20, '06

70 HEAD

Including sows sired by Corrector, Chief Perfection 2d, Mischief Maker and other great boars bred to Harmonizer, who is producing as great a per cent of the big, growthy, strictly fancy kind as any living boar. Harmonizer and Meddler bred to Hot Shot, the great under a year boar who the good breeder and judge, E. E. Axline, placed at the head of the under year class in the Kansas fairs, 1905. The breeding and individuality of these gilts mated with this great hog should produce future winners in abundance. Sale in pavilion on the farm where every one may be comfortable and a cordial invitation is extended to all to attend whether a prospective purchaser or not. Catalogue for the asking. Drop a postal giving your address that we may send you one.

M. S. BABCOCK, - Nortonville, Kansas

Auctioneers: Jas. W. Sparks, John D. Snyder, John Daum.
O. A. Simmons, Clerk.

Leon Calhoun's Poland-China Bred Sow Sale

To be held at Atchison, Kans., February 13, 1906

The sows are safely bred to Prince Darkness 39286 by Chief Perfection 2d, dam Darkness, and Honor Bright 39285, a full brother to John Bollin's Black Perfection. Prince Darkness was the highest priced Western boar pig sold in 1904, and mated with a great lot of sows and gilts. Forty head of sows, 4 yearlings out of a litter sister to the \$2,500 Missouri's Black Perfection. Three of them bred to Prince Darkness and one to Honor Bright. These are a sample of the breeding of the offering and all are an offering of individual merit. Three boars are included in sale. Superb, a splendid grandson of Missouri's Black Chief and Chief Perfection 2d. Two spring boars by Sir Darkness out of a litter sister to Black Perfection, the \$100 sow sold at Leavenworth sale 1904.

Remember sale at Atchison, February 13, the day preceding the annual meeting of the Standard Poland-China Record Association at St. Joseph, Mo. Hotel and railroad facilities excellent. Bids sent to auctioneers and fieldmen in care of Leon Calhoun. After February 10 address Atchison, Kansas. Write for catalogue to

LEON CALHOUN, Potter, Kan.

Auctioneers: JAMES W. SPARKS and JOHN D. SNYDER

Sacrifice Sale of Implements

WE HAVE A SUPPLY OF FARM IMPLEMENTS THAT MUST BE SOLD AT ONCE. THIS STOCK OF IMPLEMENTS IS ALL NEW AND ARE THE WELL KNOWN GEO. W. BROWN & CO.'S REGULAR LINE OF GOODS WHICH ARE KNOWN THE WORLD OVER AS BEING UP-TO-DATE AND THE VERY BEST IMPLEMENTS ON THE MARKET.

Description.	Brown & Co.'s price to dealers.	Our price to farmers.
14-inch Sulky Plows.....	\$31.00	\$25.00
16-inch Sulky Plows.....	33.00	27.00
12-inch Gang Plows.....	57.00	37.00
14-inch Gang Plows.....	58.00	38.00
8-foot Hand Dump Steel Hay Rakes.....	14.00	12.00
Acme Tongueless Cultivators.....	11.00	7.50
One-horse Cotton and Corn-Planter.....	7.50	4.00
Single Row Stalk Cutters.....	21.00	17.00

Monarch Supply Company

1209 UNION AVENUE, KANSAS CITY, MISSOURI

GRAND PERFECTION BROOD SOW SALE

Ottawa, Kans., February 10, 1906

in Heated Sale Pavilion

55 Selected Sows and Gilts 55

One by Keep On, bred to Top Chief; one by Corrector out of Runaway Girl, bred to Perfection I Know (sire of Lady Lucile, grand champion sow at the World's Fair); one by Corrector 2d bred to Perfection E. H., first prize at Iowa State Fair 1905; Sunshine 100 bred to Top Roller, and others by Chief Perfection 2d, Perfection E. L., Missouri's Black Perfection, Black Chief Perfection, Grand Chief, Lamplighter, Perfection Now, Black Sunshine, D's Ideal Sunshine, Wonder Sunshine (who will go in the sale), Truant Boy, Chief Perfection 3d, U. C. Perfection, Statesmen, Diamond Dust, M's Keep On, etc., bred to Grand Perfection.

Besides the good boar, Wonder Sunshine, we will sell a choice pig by Dietrich's Darkness, and one by the great Keep On. Who will be the fortunate breeder to land this, one of the very last of the get of Keep On to be sold?

Send bids to the auctioneers, Frank Howard, or George Cantrall, care Dietrich & Spaulding, Ottawa, Kans.
For catalogues, write to

DIETRICH & SPAULDING, Richmond, Kans.

AUCTIONEERS—James W. Sparks, John D. Snyder, Hall Green.