

Volume XLI. Number 5.

TOPEKA, KANSAS, THURSDAY, JANUARY 29, 1903.

Established 1863. \$1 a Year

KANSAS FARMER.

Established in 1863.

Published every Thursday by the KANSAS FARMER CO., - - TOPEKA, KANSAS

SUBSCRIPTION PRICE: \$1.00 A YEAR E. B. COWGILL Editor
I. D. GRAHAM Associate Editor
H. A. HEATH Advertising Manager

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



ADVERTISING RATES.

ADVERTISING RATES.

Display advertising, 15 cents per line, agate (fourteen lines to the inch). Continuous orders, run of the paper, \$1.54 per inch per week.

Special reading notices, \$25 cents per line.

Business cards or miscellaneous advertisements will be received from reliable advertisers at the rate of \$5.00 per agate line for one year.

Annual cards in the Breeders' Directory, consisting of four lines or less. for \$16.00 per year, including a copy of the Kansas Farmer free. Special rates for displayed live stock advertising.

Special Want Column advertisements, 10 cents per line of seven words per week. Cash with the order. Electros must have metal base.

Objectionable advertisements or orders from unreliable advertisers, when such is known to be the case, will not be accepted at any price.

To insure prompt publication of an advertisement, send cash with the order; however, monthly or quarterly payments may be arranged by parties who are well known to the publishers, or when acceptable references are given.

All advertising intended for the current week should reach this office not later than Monday.

Every advertiser will receive a copy of the paper free, during the publication of the advertisement.

Address all communications to

KANSAS FARMER CO., 116 West Sixth Ave., Topeka, Kans.

BLOCKS OF TWO.

 White, Frank B.
 114

 Within her bounds
 121

 Wolves, kill the
 122

 Woman, the educated
 121

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

The Texas Legislature will appropriate \$200,000 for a World's Fair appropriation.

In another place we present a glimpse of some of the steps by which Kansas selects a successor to the emi-nent and able Senator Harris. These political processes are not a part of farming, but farmers will some day learn that to have their due influence in public matters they must understand the methods by which things are done and must act under organization.

The Kansas Farmer is in receipt of a great many letters asking for the thirteenth biennial report gotten out by the State Board of Agriculture. The State Board will send this very valuable report as long as the supply lasts, but parties wishing it immediately will have to send the postage, thirty-three cents. Those willing to wait until the legislature shall have appropriated postage may file their requests with the secretary. All requests should be addressed, "Secretary State Board of Agriculture, Topeka, Kans."

Whether Kansas shall have a State Fair and make a representative showing at the World's Fair next year is up to the Legislature now in session in Topeka. All of the State industrial societies have worked hard for several years in formulating a bill which has years in formulating a bill which has already been introduced into the House, and there is no reason why it should not pass both the House and the Senate without much delay. The tax-payers and public-spirited citizens are behind the measure. In of Kansas are behind the measure. In of Kansas are belind the heads this connection we call attention to an editorial from the Chicago Drovers' Journal on the subject "Kansas Needs a State Fair."

THE NEW KANSAS SENATOR.

Before this number of the Kansas FARMER shall reach its readers, the legislature will have elected Hon. Chester I. Long to the United States Senate. Mr. Long is now congressman from the seventh Kansas district. His residence

is at Medicine Lodge. The contest for the nomination of the Republican legislative caucus has been a spirited one. Four members of congress and the outgoing Governor were aspirants. These were Congressmen Long, Curtis, Calderhead and Bowersock, and Governor Stanley. Long, Curtis and Stanley seemed to have about equal strength. It became apparent, however, that many of the Stanley men were very friendly to Long, but the caucus adjourned without making a nomination. Immediately, Governor Stanley called his friends

together, told them that it was evident he could not be nominated and rehe could not be nominated and re-leased them from further efforts for him. Thereupon a great majority of the Stanley men sent for Long and pledged him their support. This gave Long a majority of the Republican members of the Legislature. Mr. Bow-ersock scon after announced his with-drawal from the race. Later, Calderdrawal from the race. Later, Calderhead and Curtis withdrew, so that, when the caucus reconvened, Mr. Long

was nominated by acclamation.

If the choice had been left to a vote of the people of Kansas it would probably have resulted in the selection of Mr. Long. Ever since the question of reciprocity with Cuba has been an isreciprocity with Cuba has been an issue, Mr. Long has been a prominent National figure, cooperating with all the vigor of a strong and judicious statesman in the plans of President Roosevelt for at once redeeming the country's pledges to Cuba and at the same time providing a nearby market for surplus products of the farm and factory. Kansas Congressmen all favored the President's reciprocity measures, but the resolute and industrious ures, but the resolute and industrious part taken by Mr. Long placed him beside the resolute President in the promotion of a righteous measure which means dollars to the farms of Kansas. Much has been printed about machine and organization in the selection of the Senator. Mr. Long is a competent organizer, no doubt, but the best organization work he ever did was to earnestly and persistently advocate the measures in which Kansas people

are interested. Kansas people have reason to be proud of the record made by the outgoing Senator, W. A. Harris. But for the overturning of the politics of the State he would doubtless have been returned to the position he has honored.

Mr. Long is a young man of breadth of view and great working ability. As a Senator he is likely to command the respect and merit the confidence of all Kansans.

DISCRIMINATIONS.

Those who have examined carefully into the "trust" problem have concluded that much of the evil which society suffers from the trusts results from the discriminations which they are able to force in railroad charges. By some, it is thought that if these discriminations could be eliminated the trust problem, for far as it interests the general public, would be solved. Most of the valid complaints against railroad charges are complaints against discrmination.

A remarkable thing about these discriminations is the fact that railroad companions and most of the remarkable than a companions and most of the remarkable than the railroad companions and most of the remarkable than the remarkable that the remarkable than the remarkable that the remarkable than the remarkable that the remarkable

corporations and managers would be glad to discontinue them.

When both parties affected by a practice are against it, a way ought to be easily found to stop it. But the practice goes on; the statute and the common law are violated or evaded, and there seems to be no remedy.

An anomalous condition like this is worth examining.

Formerly large shippers at competing points negotiated with carriers for special rates much as a contract for building a house or a bridge is let to the lowest bidder. The small shippers and those who were for any reason unable to obtain the concessions found themselves at a disadvantage. On the other hand the largest shippers learned to bargain so shrewdly that rates were often cut below cost of carriage. Railroad officers tried to bring excessive rate-cutting to an end by "pooling" agreements. This led to another kind of trouble, for the pooling agreements were, naturally, entered into at competition points only, and this amounted

to discrimination against non-competitive points. Objection was raised also by the heavy shippers because of the apparent disappearance of competition among carriers. Laws were enacted against both pooling and discrimination. Serious difficulties have been encountered in enforcing these laws. The largest shippers were and are continually demanding discrimination, either open or secret, and the railroads as-sert that pooling, or something equiva-lent to pooling, is necessary to prevent such rate-cutting as would bankrupt

the companies.

The advantages to the towns, for whose businesss pooling arrangements whose businesss pooling arrangements were in effect, became great and obvious. The smaller communities reached by only one road, were and are the sufferers. So, too, the district or State as to which "community of interests" are now community of interests" among carriers has been established, may make good losses which have been forced by communities where there is still cut-throat rivalry among railroads. Notwithstanding the laws and the beligerant though ill-defined public sentiment on the subject, the heaviest shippers still so manipu-ate the competition of carriers as to force discriminations in their favor. So too, large towns have to have regard special rates their due. One of the ways in which they secure these is by pooling their shipping in the hands of an agent or committee with authority to concentrate it upon any road that will recognize the "rights" of the town to "suitable reduction of rates." This agent generally finds some road that can be brought to his views. A rate can be brought to his views. A reason war results as soon as the other roads learn of the deal, when matters are patched up, but the town has secured a rate lower than is enjoyed by smaller at lower than is enjoyed by smaller places around. It therefore grows and prospers.

This assault upon rate is repeated at intervals by both individuals and the large town with the ultimate result of very broad and unjust discrimina-tions. To get its share of the business without going below cost and without getting into the meshes of the law requires the efforts of the most costly employees of the railroad.

So great has this evil of discrimination become, so mischievously is it employed by the trusts that the general public and the general railroad manager are ready to join hands to make it impossible. Favored shippers and favored points are likely to try to render nugatory all attempts at remedial legislation, but where both the carriers and the great majority of the people are interested alike in preventing discrimination it is reasonable to expect that under such able leadership as that of President Roosevelt and the Attorney General, Senator Hoar and others of that class the day of relief is to be hoped for.

THE POLAND-CHINA MERGER.

The seventeenth annual meeting of the Standard Poland-China Record Association will be held in Maryville, Mo., on Wednesday, February 4, 1903. Every member of that association should be present at that meeting as matters of very great import to the breed will be considered, notably the matter of consolidating the Standard Record with that of the four other records of this breed into one great National record.

Every breeder who has the best interest of the breed at heart is favorable to this business-like proposition for consolidation. It is unfortunate that there seems to be some determined opposition on the part of the of-

(Continued on page 124.)

Table of Contents

Approximate
bortion, lime with sait 101122
Ifalfa cut with a binder122
nimal intelligence
Animal intelligence 130 At rest 122 Barren stalks in corn 122 Beal, F. E. L 127 Beal, F. E. L 127
Barren stalks in corn
Beal, F. E. L
Sermuda Brass
Beal, F. E. L. 127 Bermuda grass. 127 Birds and orchards. 127 Campbell, W. M. 117 Celery culture. 127 114 114
Campbell, W. M. 127
Class advertising
Clean and convenient124
Class advertising
Curing meat, recipes for122
Dairy day at the stock-breeders an-
annual 123
Dairy industry, need of the
Dairying, state aid to
Discriminations
Doane, C
tieg our 4.000-acre116
Farmer governor, a
Dairying, state aid to
Halliwell, A. C
Haney, J. G
Installation
Installation, neid a public
In the right direction
Hallwell, A. C. 116 Installation. 130 Installation, held a public. 130 In the right direction. 123 Johnson, W. M. 128 Kansas senator, the new. 121 Kruger, Andrew. 122 Legislation, needed. 122 Light Brahmas. 124 Little Scotch Granite. 12 Locust for posts. 12 Me an' Jake Hefner. 12 Norton, D. P. 11 Nursery manners. 12 Nursery manners. 12
Kruger Andrew
Legislation, needed
Light Brahmas
Little Scotch Granite
Locust for posts
Me an' Jake Herner
Nebraska agricultural meetings,11
Norton, D F
Orchard soils, a study of
Poland-China merger, the11
Poultry notes
Quiniva (poem) grant stock
Railroad transportation of live stock-
its evils
Recipes, our weekly
Pagyag T W
Rheumatism
Roberts, H. F
Shepherd, N. J
Skinner, A. G
Snow-bird, the (poem)
Sprigg, Isaac1
Stockmon's "finish." the1
Storm-heat (poem)1
Swelled leg
Taylor, C. W
Me an Jack Relation of the late of the lat
Wagner, B. P.
Warneld, anecdote of wm

The Stock Interest.

THOROUGHBRED STOCK SALES.

Dates claimed only for sales which are advertised or are to be advertised in this paper.

February 2, 1903—G. E. Fuller, Morrowville, Kans., bred Poland-China sow sale.
February 3, 4, and 5, 1903—Combination sale at Wichita, Kans., Percherons, Shorthorns, and Poland-Chinas. J. W. & J. C. Rouison, Snyder Bros., and others.

land-Chinas. J. W. & J. C. Rouison, Snyder Bros., and others.
February 5, 1903—Thompson Bros.' sale of Poland-China bred sows and glits, at Marysville, Kans.
February 6, 1903—Breeders' combination sale of Berkshires, at Kansas City.
February 6, 1903—Winn & Mastin, Mastin, Kans., Poland-Chinas.
February 10-11, 1903—G. M. Casey and T. J. Wornall, Shorthorns, at Kansas City.
February 10, 11, and 12, 1903—J. F. Stodder, George Bothwell, and others, Shorthorns; also C. A. Stannard and others, Herefords, at Okiahoma City, Okla.
February 16, 1903—J. S. McIntosh, Manhattan, Kans., Shorthorns.
February 17, 1903—Geo. F. Kellerman, Shorthorns.
at Kansas City.
February 18, 1903—C. M. Garver & Son, Abilene, Kans., bred Poland-China sows and glits.
February 20, 1903—S. S. Spangler, Milan, Mo., Percheron horses.
March 3, 1903—L. M. Monsees & Son, Smithton, Mo., jacks, Jennets, saddle horses, and Poland-China swine.
March 3 and 4, 1903—C. H. Gardner and M. A. Judy.

swine. March 3 and 4, 1903—C. H. Gardner and M. A. Judy, Aberdeen-Angus cattle, at Chicago.

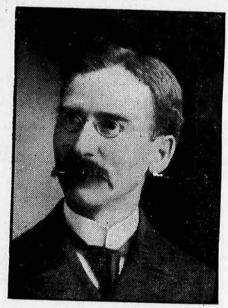
The Stockman's "Finish."

A. C. HALLIWELL, CHICAGO.

Paper read before the Kansas Improved Stock-Breeders' Association.

Gov. Stanley, referring to the increase of \$42,000,000 in the value of live stock in Kansas since 1898 and the increase of more than \$80,000,000 in the principal agricultural products, wisely strikes the key note of the situation when he says:

"If a halt is called in the movement to purchase on time at the present very high prices, it will be of great



A. C. HALLIWELL, Editor Daily Live Stock World. Chicago.

benefit; in other words, if it has a tendency to keep our people from running in debt for what they buy it will result in much good."

In other words, the Governor wants the stockmen and farmers to prolong and not destroy their good fortune.

The Governor probably does not

want to encourage any more brass-band cattle kings to work their credit to the limit and beyond and then make their finish in Mexico.

During every boom period in live stock, thousands of new people jump on the stock train of prosperity without having much idea of where they are going to get off.

The shining light of high live-stock prices attracts to their untimely finish great flocks of would-be stockmen.

Do you recall the boy's earless and

tailless pig?

he lose his ears, my son?" "I pulled 'em off getting him to his feed."

"Well, what about his tail?" "Oh, I had to pull that off to get him out of the trough."

The highways and byways of cat-tledom are full of human pigs that have lost their ears in getting in and their tails getting out.

People who endeavor to get into the business when everybody else seems to be doing the same thing and expect to sell out in time to avoid losses when everybody else seems to be getting out are only apt to get the worst of it, both "gwine and a comin"."

After having carressed the buzz-saw of boom prices on getting in, and being squeezed in the jam of enforced liquidation in getting out, your "In-At-The-Top and Out-At-The-Bottom" stockmen can see some points in the colored brother's exhortation when

with solemnity he remarked: "Dar am just two ways, my belubed bredren and sistern. One of dem ways leads straight down to destruction and de udder straight down to damnation;" and he can also sympathize with Old Black Joe, who rises up in the Amen corner, and after adjusting his specs so he can look over them at the preacher, declares, "If dat am a fak, den dis heah darkey am gwine to take to de bresh."

During the memorable year of 1902 when prices went up like a rocket and came down like the proverbial stick, the stock business was marked by some desperate finishes.

Speculative plunging is live stock is not very different from speculative plunging in anything else.

The Iowa man who deeded over an \$18,000 farm because he thought prices were going to stay up to a certain figure for some months after they began to tumble, did not even have the hollow consolation that comes to the "babies that bet on the 'bang tails,'" who, at least, "get a run for their

Hosts of reckless men who bought 5@5½ cent feeders and sold warmed up cattle at panic prices, certainly reckoned without their finish.

The men, however, who make the best finishes in the stock business, are of two classes; first, those who make themselves independent by picking up a few animals here, a few there and a few somewhere else, and who breed and feed steadily and systematically, as they would expect to run any business. These people work right along one year with another, being prepared to do what the Dutchman meant when he said the way to do was to "take the bitter with the sour." The second successful class are those are successful class are those who figure out what the crowd is going to do and then do the other thing; that is, they buy most when others are most anxious to sell, and as a rule have some-thing to sell when the others are "all

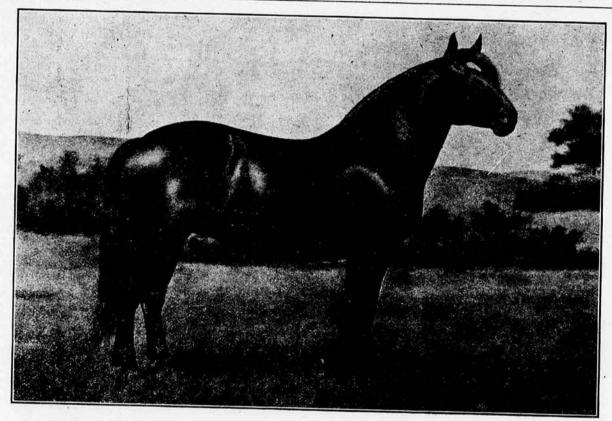
Then, too, the stockman who makes the best finishes are those who keep closest in touch with market supplies and demands and changing conditions.

No matter how good an education one may have acquired in the practical schools of breeding-pen and feed-lot, his education in the school of live stock can not be complete without a post-graduate course, so to speak, at the stock yards, where all sentiment and theory are thrown to the winds

FOR STRENGTH ELECTRIC WHEEL CO., BOX 46, QUINCY, ILLINOIS

It is sufficient to know that the intelligent men of the business world have cast about and selected the very best talent for the management of their advertising departments. Not only our great mercantile establishments but the manufacturers and the various classes that have to do with agricul-ture are to be counted in our consideration of this subject.

It is not an uncommon thing to read of some of our progressive live-stock breeders paying almost fabulous prices for good specimens in order that they may raise the standard of their flocks or herds. A Hereford bull sold in Chicago in 1900 for \$7,500. You have had similar records, in fact greater, in the Kansas City market. The manager of vanderbilt's poultry-farm at Biltmore, N. C., it is said has offered as high as \$500 for a single chicken. It is need \$500 for a single chicken. It is need-



PERCHERON MARE, BIJOU 18372.

Owned by J. W. & J. C. Robison, Towanda, Kans., and consigned to the combination sale at Wichita, February 3, 2,100 pounds. A show mare and a brood mare. Her show record this year, the only time ever shown, is probably une-for mares 4 years and over; Kansas State Fair, 1st in class and sweepstakes mare any age or breed; Southwestern Expected. Her by Wichita, 1st in class; Butler County Fair, El Dorado, 1st in class and sweepstakes for draft mare any age or (45462) 27830 April 9, 1902.

Men who had the cattle and the corn and agreed to put them together by a certain time at a certain good price, did not always get as much from the speculator as they could have gotten on the open market when the contract was closed, but they were wisely working upon the sound business policy of taking reasonable profits and letting others take unreasonable chances.

Perhaps to bring about successful "finishes" there is more room for improvement in feeding than in breeding methods. The tendency to fill the feed lots with animals grown by somebody else in not without its advantages, especially while there are sections in the range regions adapted work more than for finishing; but men like L. H. Kerrick, with wide experience as breeders and feeders, can tell of the advantages of a man breeding as well as feeding his own stock.

Uniformity of finish can only be secured by uniformity of stock at the start, and that can best be secured by a man being fitted to do his own breeding as well as feeding.

The saying, "well begun is half done," is trite and often true, but when it comes to the "stockman's finish" the stock yards-one might better have stock that is well fed, though poorly bred, than well bred and badly fed.

When things are booming, it takes nerve for one not to be carried away by the crowd, and when values are very low it seems to be still harder to disregard the actions of the many who always figure that high means STILL HIGHER and low means no BOTTOM.

and practical conditions and plain, hard facts must be faced—that is the stockman's finish.

Class Advertising.

FRANK B. WHITE, CHICAGO, ILL.

Paper read before the Kansas Improved
Stock-Breeders' Association.

I am here to tell you something
about class advertising, and class advertising before an audience of this kind must mean live stock advertising. For sometime it has been my privilege to work along advertising lines with the various classes that have to do with agriculture. No class is of more importance than that of the live-stock breeder. The very name of your ashas an advertising ring to it and speaks out to the Kansas world

the advantages of improved live stock. If there are any here who are breed ing live stock who do not care to sell it at better prices than they have been able to obtain in the local market, my talk will not have in it very much that is of interest. If it is your desire to seek ways and means for the disposition of your surplus stock at better prices than you have been able to obtain in the local market, you surely ought to be interested in my remarks.

Advertising carefully and judiciously planned and placed is one of the most essential features of the live-stock business today. It follows successful live-tock breeding and makes the live-stock breeder a busines man in the full meaning of the term.

The question as to whether advertising pays need not be discussed here. In fact there are no grounds for the discussion of that phase of the subject.

less for me to quote prices that some of the best specimens of stock of all of the best specimens of stock of all kinds have brought. As breeders you are probably better posted than I am along these lines. No doubt those of you here have some most excellent stock at home, stock that has cost you a great deal of money, time, patience, and long waiting. I wonder if you ever a great deal of money, time, patience, and long waiting. I wonder if you ever take an account of stock, cast a balance and see on which side of the ledger your account stands. Have you ever asked the question whether it really pays to breed fancy live stock? Do you always make sales that are satisfactory, and is there a market for all that you produce at prices as high as you would like them to be? What is the use of it all if you can

not make it pay, and surely, gentle-men, if it does not pay in these flourising, prosperous times, it never will under your present system. Nothing can be sold without advertising. Before an article or an animal can be purchased it is necessary that the buy-er should know who keeps that which he wants, and this letting the public know is what is called publicity or advertising.

In former years advertising consisted in blowing a trumpet, or criers were sent out who would go from village to village and announce by word of mouth what was for sale, where it was found and by whom offered. The county and state fairs, expositions, shows, etc., are all means of advertising and they are good as far as they

TO CURE A COLD IN ONE DAY Take Laxative Bromo Quinine Tablets. All druggists refund the money if it falls to cure E. W. Grove's signature is on each box. 25 cents.

go. I was interested as a boy in hearing the advertising argument that would go on between two farmers who would chance to meet at the end of the furrows, and while their horses were taking a breath they would advertise to each other the things they had to sell, what they proposed to do and how they would do it. Perhaps at the other end of the furrow the advertising would go on with another farmer and by word of mouth it would be known that John Smith had a Berkshire pig for sale and sometimes that would go on between two farmers who shire pig for sale and sometimes that intelligence would travel for miles.
Perhaps Smith would sell the pig by
that method of advertising.
Sunday visiting is not always

given up to the discussion of the topic of the Sunday school lesson. Farmers like to see what others are doing, and while they are seeing they are talking, and it usually ends about the same as David Harum's horse trading. If you have good stock for sale it is your privilage to advertise it in this way, but I want to tell you of a better

There probably is a poor newspaper publisher who is working mightly hard to eke out an existence in your town, and instead of you wasting a whole lot of breath in doing your own advertising, let him have fifty cents or a dollar and he will talk to four or five hundred of your neighbors. If you have but a few animals for sale, that will help you. If you are a breeder and want to reach beyond your immediate locality, use such papers as the KANSAS FARMER, the Farmers' Advo-cate, the Poultry Gazette, the Missouri Valley Farmer, and others that circulate in your State.

If you have reached that point where



FRANK B. WHITE, Editor Class Advertising, Chicago.

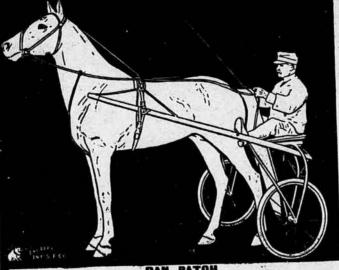
you have graduated into the class of general advertisers you may then consider that you are on very dangerous ground so far as the advertising sub-ject is concerned and may want the advice of one who knows something about it from years of experience. This is where the advertising agency can advance your interests.

I maintain that every farmer should be a business man, and conduct his business upon the loss and gain basis just the same as the manufacturer or merchant does—only he should be sure that it is gain instead of loss. If you have a lot of stock for sale do not push it to the back end of your farm, but keep a good pasture near the road so that the passer-by may behold some of your best specimens, and if they have not the money to pay for the best specimens, you can take them to the back end of the farm-and sell them something of more common value for the improvement of their

If you ship stock to distant points be sure that the crate and everything that goes with it is first-class. You can advertise yourself all along the line by seeing to it that what you do in this direction is well done. good label, shipping tag, or sign, is a valuable adjunct. It is a good idea to have your advertising literature well prepared. Good letter-heads, a good circular or booklet,—make it good. Get out of the notion that the people who are interested in your good live stock are hayseeds and do not care for fine printing.

The farmer is fast becoming an intelligent individual. This is due to the advanced progress made by the agricultural press, which embraces all class papers that relate to agriculture. The agricultural college, the agricultural department at Washington, the improved transportation facilities, the rural mail delivery, telephone, electric interurban railways, farmers' institute

WELLET LITTLE TO THE PROPERTY OF THE PROPERTY THE \$60,000



DAN PATCH Officially Timed at Readville, Mass., Sept. 23, in 1:58 1/s
Champion Harness Horse of the world.
This Engraving was made from a Photograph taken when ready to race.

PACING STALLION

PACING STALLION

Just purchased by M. W. Savage, Minneapolis, Minn., as one of the leading stallions for his "International Stock Food Farm." The purchase of Dan Patch was a tremendous sensation in horse circles, and was taken up and given columns of notices in all of the leading dailies throughout the entire country. The price was over Three times as much as was ever paid for a pacer, and by far the largest price paid for a harness horse for a long term of years. This farm is now one of the most famous horse-breeding farms in the world, as Mr. Savage owns the Three Fastest Stallions ever owned by one man or by one farm, Dan Patch 1:59%—Directum 2:05%—Roy Wilkes 2:06%. The establishing of this farm in Minnesota, 12 miles from Minneapolis, means a great deal for the live stock interest of the Northwest as well as for the entire world. It will add thousands of dollars every year to the live stock interests of Minnesota alone, and Mr. Savage expects to prove to the world that high-class harness horses can be raised in the Northwest as well as in other parts of the United States. You are cordially invited to visit "International Stock Food Farm" whenever you are in this vicinity. You will find the celebrated "International Stock Food" #3 FEEDS FOR ONE CENT #8 fed every day to our Stallions, Brood Mares, Colts, Race Horses and other stock. "International Stock Food" has the largest sale in the world for Horses, Cattle, Sheep, Hogs, Colts, Calves, Lambs and Pigs. Over 50,000 dealers sellit on a "Spot Cash Guarantee" to Refund Your Money if the results of feeding it are not perfectly satisfactory to you. It will cause your colts and other young stock to grow rapidly even during the winter. Keeps them free from worms and tones up and strengthens the entire system.

\$3000.00 STOCK BOOK

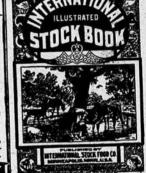
IT CONTAINS 183 LARGE ENGRAVINGS OF HORSES, CATTLE, SHEEP, POULTRY, ETC.

cok is a Beausiful Live Stock Picture & Printed in Six Brilliant Celers. Book is 8½ by 9½. See engraving for greatly reduced design of cover. It cost as \$3000 to have our Artists and Engravers make these life Engravings. This Book contains a Finely Illustrated Veterinary Department that will Save You Handreds Engravings. The Book contains a Finely Illustrated Veterinary Department that will Save You Handreds Engravings of Book in the State of the State of Contains and Engravings of Horses, Cattle, Sheep, Goats, Hogs and Foultry, History and Illustrations of the Different Breeds of Horses, Cattle, Sheep, Goats, Hogs and Foultry, History and Illustrations of the Different Breeds of Horses, Cattle, Sheep, Goats, Hogs and Foultry, History and Illustrations of the Different Breeds of Morrey, October 1988, and Life Engravings of many very noted Animals. The Eddier Of This Paper Will Tell You That You Ought To Have This Book in Your Library For Reference.

\$10.00 CASH, we will send you, IF BOOK IS NOT AS STATED.

**Halled Free, Pestage Prepaid, if You Write Us (letter or postal) and Answer These 2 Que
today for book.

International Stock Food Co., MINNA, U. S. A. Hundreds of Thousands of Testimonials from Farmers and Stockmen



EEDS FOR ONE CENT AT OUR RISK

work, and numerous other agencies are at work for the advancement of agricultural ideas.

It is unnecessary for me to call your attention to the fact that the range question does not concern Kansas people to any great extent. It has given place to the ranch, and the ranch is fast being divided up into small farms. The question that concerns you is how you can produce more on less land. You are concerned in making two blades of grass grow where but one grew before. You are further concerned in driving the product of your farm to market rather than hauling it there. You are concerned in bearing You are concerned in keeping the animal fertility on your farms, and by the successful breeding and marketing of your live stock you become more prosperous, and, in turn, you become better citizens. At least that should be the law of progression. Will it pay you to improve the condition of your farms to meet the requirements of a good advertising proposition? I leave this thought with you and I want you to take it home and think it over.

Let me give you a little experience of an advertising solicitor who chanced to step off of a train at an Indiana railroad station. In answer to the solicitor's question he (the breeder) said: "I'm using a lot of the stock papers, and I sell some of my way-up stuff to breeders, but you know all kinds of live-stock produces more or less stock that is not quite up to the mark from a breeder's way of looking at it. The breeder may be all right, and I know mine is, but the young stuff lacks some fancy point and it must go at beef or pork prices, when, if it was in the hands of a man who had common stock it would make him

a lot of money."
"You sell this second-grade cheaper,

"Sure; I can't sell it to the man who has show-stock and the man who ought to have it does not come to buy it. I've got neighbors who raise corn and sell it at market prices when they might be getting forty cents a bushel for it if they would breed hogs or cat-tle and feed the corn. They sell \$1,000 worth of corn and their farm has \$350 worth of fertility lost to it, when, if they had fed it to hogs or cattle, they would have saved most of the fertility and got \$2,000 for the stock they fed the corn to."

"You are using stock papers alone?" "Yes, I want to get at the stockman." "Why don't you try the farm papers?'

"Just because not one farmer in ten reads anything that tells him about his business." "How about the one in ten that does

"He's all right and up-to-date and makes money.

"Did it ever strike you that the one farmer in ten who does read and is up-to-date would be a pretty good fel-

up-to-date would be a pretty good fellow to get after to sell your good, but not fancy stock to?"

"Oh, I don't know. 'There's Jones over at Smithtown, who advertises in the farm papers and he is in the same boat with me as far as orders go."

"Yes I am going to see him this

"Yes, I am going to see him this afternoon," said the advertising solicitor. "The trouble with Jones is that he does not use the right kind of advertisements. I have one of them here," and he pulled out a card case and extracted from it this ad:

POLAND-CHINA SWINE.

1 extra good 2-year-old sow safe in pig to Black Hawk 99th, fine individual and good breeder at \$55. She is as good as I have seen sell at public sale for \$550. A few good sows due to farrow in June or July. Also good lot of October and November male pigs. W. H. Jones, Smithtown, Ind.

"You see," continued the advertising man, "Jones says the same thing that ten or fifteen more men say and all of them have their advertisements in the same column, or on the same page. I was thinking about Jones last night over at the hotel and I thought I could

improve his advertising, and I am going to see him about it."
"Huh, what do you know about breeding live stock?" asked the live-

stock man.
"I don't know as much as I might," replied the advertising man with undisturbed serenity, "but I've thought of some thing about advertising live stock that the breeder seems to have missed."

"My card in the papers is just like Jones; we got 'em up one day when it rained; the only difference is that mine mentions the cattle."

"If you wanted to get a man to begin breeding hogs how would you be "I'd try to get him in the notion first,

tnd then try to sell him my stock. "That's a good plan. You wouldn't try to interest him by telling him the same thing ten or twenty other men

had said before, would you?" "Well, I guess not; I'd try to think up something new." "Why not try that with your adver-

tising? There doesn't seem to be anything to say, except to tell what kind of stock a man's got to sell, and tell the price, if he wants to price it to the public."

"Why don't you try the same plan you did on me?

"How's that?" "You gave me half a dozen good arguments why a man should breed stock instead of selling corn, and I'm going to look into the matter when I get home."

"I couldn't pay for the space to say all that in the papers; it would break

me up."
"Let me see," said the advertising solicitor, pulling out a fountain pen and a pad of paper, "what we could make out of what you said."

Laying the pad on top of the fence he scribbled away for a little while and showed the live state. When this:

40 CENTS FOR CORN.

The man who feeds his corn to hogs or cattle gets about 40 cents a bushel for it at present prices. \$1,000 worth of corn takes about \$350 worth of fertility from the farm; if sold. If fed to hogs or cattle \$275 of this is saved and the stock sells for \$2,000. Profit \$1,275. I have Poland-China swine and Shorthorn cattle, high-scoring for breeders, cheaper ones—same breeding—to improve common stock. My circulars are interesting; I send them free. John H. Smith, Jonesville, Ind.

Now, one word as to the following up of your advertising after you have placed it in the newspaper. Many an advertiser will meet you with the argument that he gets inquiries but makes no sales. He spends a goodly sum of money and not making sufficient sales gives up the idea of advertising and ever after condemns it. I dare not recommend advertising under all conditions, but if conditions are favorable it is just as sure as crops are in the most favorable section. Not everyone makes a sucess of it, but failure is generally traceable to some well-defined causes. If there is any one thing that you should be careful about it is in the placing and handling of your advertising. I dare say that you will make all sorts of sacrifices to take care of a colt or a lamb or a pig because it is of value. You can see that value. Unfortunately advertising is some-thing that you can not measure by the bushel of weigh on the scales. I confess that we have got to exercise a great deal of faith, but the natural law of cause and effect operates in advertising just as it does in farming or in business. "As ye sow, so shall ye reap." If your advertising is well done, you get inquiries from interested parties or possible customers. That inquiry means a great deal to you, and right here I wish to repeat a part of my address before the Minnesota State Horticultural Society at Minneapolis recently:

When you receive an inquiry in response to your advertising, you should make it your positive duty to treat that inquiry just as you would a new friend. It costs something to get an introduction to that friend, it is worth your while to pay a little more for the privilege of doing business with him. would treat that individual inquiry just as if there were no others, and as though the success of my business depended upon making a sale to that particular individual. The careful following up of that new acquaintance may lead to a business friendship profitable not only with him but with his friends and his friends' friends, because advertising has wonderful expansive power. Thus you see the continued accumulative effect of good advertising.

It is a good plan for every breeder of live stock to interest as many of his neighbors in the same breeds as he can so that he may be in a position to meet the demand of his customers from practically his own stock. Do not be huckster in the business, be a legitimate advertiser, inculcate per-sonality in the breeding of your stock and the transaction of your business and every bit of advertising you do will add to your stock in trade and your business will grow in public fa-vor and your pocket-book will surely feel the effects of it.

I do not believe in advertising in the bargain counter advertising style for the live-stock breeder. To advertise pigs for sale at \$10 each means that some one may get a pig that is worth \$10 and some get another not worth half that amount. Perhaps a few will draw prizes, but the great majority will get left.

It seems to me that a great deal better way would be for the live-stock breeder to request in his literature a statement from his applicant as to the particular quality or degree of excel-lence wanted, and then it should be his aim to try and meet that demand, and at all times let it be known that he stands ready to make good any promis or statement that he has made. But do not sell a pig worth \$25 for \$5. Do not be afraid to ask what the animal is worth.

Every successful advertiser in a community adds just so much to the wealth of that community. I know of advertisers who are bringing into villages of very small population as high as \$50,000 a year, that money is very largely expended in the community. An advertiser brings money to the community which goes to enrich the community while the ordinary farmer who sells everything for the Kansas City or Chicago market gets his money for it but not half the amount he

A business that is worth your while to engage in is worth being advertised. Live-stock that it is worth your time to breed and care for is worthy of the very best advertising.

It is as easy to sell a pig in Florida, Maine, Oregon or California by advertising as it is to sell it in your next county. A manufacturer of incubators in California has made frequent shipments by water from San Francisco to the Atlantic coast. He has sold also by advertising, to be shipped by freight in the State of Maine. On the other hand, some of eastern manufacturers in the same line are sending train loads of incubators to California.

I have been asked what I thought about all-year-round advertising for the live-stock breeder. That depends upon the capacity of the advertiser. It is useless to advertise when one has nothing to sell. Sometimes it is advisable to advertise when you are certain that you will have something to sell in the near future, but it is unwise for any advertising man or newspaper publisher to urge upon an advertiser the use of space when it can not be used judiciously. Strike while the iron it hot.

Our 4,000-acre Experiment Station and Its Possibilities.

J. G. HANEY, SUPT. HAYS BRANCH KAN-SAS EXPERIMENT STATION.

Paper read before the Kansas Improved Stock-Breeders' Association.

It seems that Providence looks out ansas to see that we have big to be what they appear, their value can not be estimated. things. The area of land now controlled by the Kansas Experiment Sta-tion at Hays is not equalled by any other State in the Union. It is practically 4,000 acres, every foot of which, except the actual creek-bed, is as fine agricultural land as there is in the State. To an Easterner this is a strange statement, but it is only asked of him to come and see. Many visitors have praised the judgment of some army officers in selecting this body of land. The broad level bottoms along the stream running through the tract, gently rising to the upland, together with the large trees and tall blue stems, elicit ejaculations of surprise from all visitors.

It must be remembered that this tract of land was raw sod until last March. Not a cent was spent until the arrival of the superintendent on March 28, 1902. There was no definite plan laid out and only a pittance to begin with. In satisfying a number of squatters, rather than delay work by a

long trial, they were given leases of from three to five years (two years have elapsed). About one-third of the land is so encumbered, and some if it where it is most desirable for opening experiments.

Five hundred acres were broken, nearly half of which was planted to sod-crops as follows:

	ACRES
Cane, sowed thickly	5
Cane, sowed thickly	5
Kafir, sowed thickly	11
Rarlav	
Macaroni Wheat	12
Corn	15
Millet	8
Cow-ness in rows 30 inches apart	6
Kafir-corn in rows 30 inches apart	70
Bromus inermis	41/2
Alfolfa	22
Alfalfa. Two varieties of millet	2
Kansas stock melons and other melo	ns10
Peanuts and carvansas	1/6
T COM AND COM A COM A COMPANY OF THE COMMAND OF THE COMMAND CO	

In addition to the above there has been planted a grass garden containing 31 varieties of grass in plats, most of which are 14 by 24 feet. In each plat 36 hills are planted, 1 foot apart each way except in the alfalfa and bromus inermis, in which there are 240 hills of each. This is for the pur-pose of observing individual plants, and possibly the selection of superior individuals, as each hill will be thinned to one stock. Also about three-fourths of an acre is set to trees and shrubs sent out by the Agricultural College.

On the old garrison garden-patch has been planted, one acre of potatoes, half of which is mulcted, a smaller area to of which is mulcied, a smaller area to jerusalem artichokes, three varieties of cow-peas, three of soy-beans, four of corn, cane, Kafir, rape, pencillaria, and a vegetable garden which belongs to the Normal School people.

The prerequisite of a good crop, a good stand, was a secured of every-thing. The season was not wholly fav-The barley and macaroni



J. G. HANEY, Ft. Hays Experiment Station. Superintendent

wheat were planted a month too late for best results, but notwithstanding being planted late and on green sod, made fair showings. The twenty-two acres of alfalfa sown from May 26 to 29 in a bend of the creek known as "Camp Custer," but was a prairie-dog town in March, was cut fifty-seven days later and made a fair crop of hay. By actual measurement the growth in places was twenty-four inches. Visitors declare it the most perfect stand ever seen (fifteen pounds of seed was sown per acre). After reserving what would be needed, feed enough was sold to winter 300 head of stock. Two of the varieties of grass appear to be very promising. When even cane and Kafir-corn dried up to the burning point, they were as fresh and green as during the wet periods. If they prove

To protect the land from trespassers, To protect the land from trespassers, and to complete a five-hundred-acre pasture, ten miles of wire fence have been built. Some of the old Fort buildings were moved to the "Farmstead" for use. One has been fitted up as a residence; others as a parn, granery and tool-shed, temporarily. Wells have been put down and such machinhave been put down, and such machinery as was absolutely necessary has been bought, begged and borrowed. About four hundred acres of the reservation was occupied by the prairie-dogs, but by using a preparation made by the experiment station for destroying tnese pests, within thirty days from the time of beginning work on them, they were entirely exterminated at a cost of eight cents per acre.

Until the middle of September, one bald-faced saddle-pony was the only animal owned by the branch. At this time money for buying one team was appropriated from the funds of the college at Manhattan. With this team

and some others that were hired, the fall work was done.
In September fifteen acres more of

alfalfa was sown and a fine stand secured with ten pounds of seed per acre. Two hundred acres were sown to wheat, all of which is in experi-ments such as could be conducted on sod. A part of this work is in cooperation with the Department of Agriculture in charge of M. A. Carleton, cerealist, and a graduate of our agricultural college. There are planted on the station here 165 varieties of fall wheat and nine positions of the production o varieties of rye which have been se-lected as being adapted to this climate. Many of them are new importations from northern Europe and Asia. There are also a large number of Kansas hybrids of promise. The quantity of seed sown of these varieties ranges from three grains to one hundred bushels. Each variety is carefully planted, staked off and marked with a zinc label. They will be carefully watched with the hope of finding something superior to the varieties now being grown. While an increase of one or two bushels per acre does not look large, yet when it is considered that it costs no more to plant and harvest the increase, and that we plant four or five million acres, it will make quite an appreciable addition to the total wheat yield. The possibilities are only conjectures. Before the Turkey wheat was introduced about twenty-five years ago, the wheat industry of our State did not compare with what it is to-day.

FUTURE WORK.

It is considered impossible to outline definitely what will be done in the future. If it was known now what is hoped will be known twenty years hence, this work could be outlined and followed for that length of time. The work will be divided into several branches: field crops and field operations, plant breeding and selection, for-estry and horticulture, irrigation, animal husbandry, including dairying, stock feeding and breeding. It will be seen that the beginning made in these lines will depend on the amount of money appropriated by the present Legislature for this purpose.

THE FIELD CROPS AND FIELD OPERATIONS will be the testing on a large scale of new crops before they are distributed, and also the trial of methods of cultivation. It has been said that there is no place where good farming will pay better, and no place where so much poor farming is done as in the middle and western parts of our State. Every different country must have its own methods of work. The great drawback to Western agriculture has been that Eastern men with Eastern ways have tried to farm in Kansas as they did in 'Ohiah" and "Indianny." It has taken a generation to learn that Eastern ways would not succeed. The next twenty years will work a great change in the methods of cultivating the soil. The farms are growing smaller, and the range decreasing. This will neces-sitate a more intense and diversified farming. It is the object of the experiment station to assist in developing new methods and making them known. There is also a great field for the experiment station in simply trying the various new implements. There are hundreds of thousands of dollars thrown away each year on worthless

stuff sold by smooth-tongued salesmen. THE PLANT BREEDING

work will be conducted largely in cooperation with the Department of Agriculture, and will be carried on along two lines. The direct selection of superior individual plants as a probable basis for improvement will perhaps be the most important. In the stock yards can be seen what such selection has done for animals, and it is entirely reasonable to suppose that as much can be done with plants. This method will be applied to all the grains, grasses, vegetables, fruits and forest trees that are adapted to the conditions of central and western Kansas. Hybrid-izing or crossing will also be followed It is hoped that a to some extent. great deal may be done with corn, and the large area will make it possible to grow a number of varieties, which is not possible with many stations.

THE FIELD OF FORESTRY AND HORTICUL-TURE

is also very important. Not only for the products in fruit and fuel, but as a means of beautifying the country. The growing of trees, if enough are grown, will also better the climate. reduce the severity of hot winds and distribute more evenly the rainfall. Besides these facts, the growing of fruits, vegetables and ornamentals will, no doubt, change for better the character

Horse Owners! Use GOMBAULT'S Caustic Balsam

A Safe, Speedy, and Fostitre Care
The safest, Best BLISTER ever used. Takes
the place of all linaments for mild or severe action.
Removes all Bunches or Blemishes from Horses
and Cattle, SUPERSEDES ALL CAUTKEY
OR FIRING. Impossible to produce scar or blemish
Every bottle sold is warranted to give satisfaction
Price S1.50 per bottle. Sold by druggists, or sent
by express, charges paid, with full directions for
its use. Send for descriptive circulars.
THE LAWRENCE-WILLIAMS CO., Cleveland, O.

ALMOLINE The Corn-Husker's Friend. : : : And Nature's Perfect Healing Salve MAN OR BEAST. Druggists, or by mail. Trial box, 4c; 2 oz., 25c; 5 oz., 50c. Baimeline Mfg. Ce., Sta. B. Abilene, Kas

LUMP JAW. A cositive and thorough cure easily accomplished. Latest scientific treatment, inexpensive and harmless, NO CVRE, NO PAY, Our method fully explanded as re-Chas. E. Bartlett, Columbus, Kans.

Immune Hogs

The pigs are born Cholera-proof.

Innoculation before birth the most scientific and best hit ever made in preventing Hog Cholera. Write for free book and agency. ROBERT RIDGWAY, Box 300, AMBOY, IND.

MOORE'S HOG-Original REMEDY Hog Dip. Used on Outside and Inside of Hogs Kills lice and fever germs, removes worms cures mange, canker and cough; aids diges tion, promotes healthy growth, and Prevents Disease, at Small Cost. At dealers in Sealed Cass Only. Useful book with illustration of Dip Tank FREE. Address MOORE C. & M. CO.L Kansas City, Me.

of the people by making their homes attractive and comfortable. The experiment station will seek to develop methods for growing, as well as develop or introduce varieties of vegetables, fruits and forest trees suitable for our climate and soil.

The question of irrigation is also coming to be of considerable impor-tance. The elements are too uncertain to be wholly depended upon; and as the country becomes more thickly settled, this fact becomes more eminent. Plans are already being drawn up to be carried on in co-operation with the irrigation investigation bureau of the Department of Agriculture. The plan will be to see what can be done with well and pumps such as may be had on nearly every farm.

IN ANIMAL HUSBANDRY

it is hoped that a beginning may be made next summer with 100 head of native cows. These will be bred to several breeds of bulls, beef and milk, and the offsprings either milked or fed for beef as the case may be.

It is the intention to reserve one thousand acres or more of native grass for pasture and range improvement experiments. Four or five hundred acres will doubtless be put into alfalfa, and the remainder used in the conducting of experiments with crops, etc. One quarter-section will be used as the "Farmstead." The buildings, feed-lots, garden, orchard, etc., will be located on this in as convenient and tastful

manner as possible.

The experiment station now has control of only half of the reservation. The western branch of the State normal has the other, and is leasing it on the crop plan. This arrangement can be only unsatisfactory to the normal people, and the leasing of the land to parties whose only interest is to get all out of the land possible will be serious. It is to be hoped that some arrangement can be made whereby the experiment station can come into control of the whole 7,500 acres. It should never be thought of that the branch RingBone KneeSpran8 Fistula LampJaw

The Books Are Free e Books Are Free

If you have a horse that is lamed or blemished by any kind of a growth or enlargement, that is Knee Sprung or has Fistula, Poll Evil or Sweeny, or if there is a case of Lump Jaw among your cattle, write us at once. We will send you two big booklets. One tells you just how to cure these diseases and blemishes. The other proves that you can cure them, and we guarantee you success besides. Same methods employed by over 140,000 farmers and stock owners. Write for the books and tell us what kind of a case you have to tireat.

AING BROS., Chemists.

FLEMING BROS., Chemists, 212 Stock Yards, Chicago, III.

experiment station should be self-sup porting. Many experiments will not prove successful, but will be just as valuable as those that do. It costs more to be careful and know what is being done, even when the work can be done on as large a scale as will be possible here.

The location of the branch experiment station in the so-called "semi-arid West" and the fine body of land makes it a most important acquisition to the State. The results of the work done here will be applicable over a larger area, and on areas needing such help more than perhaps any other experi-ment station. The people of Kansas are coming to have more confidence in the experiment stations and are looking to them for help. The vale of such an institution to the State can not be estimated. A single variety of wheat that would increase the yield one bushel per acre would be of more value to the State in one year that has been expended by the State for the support of the experiment station since it was organized.

The following statement has been made as conservative as possible, and it will not be doing justice to the grand gift to the State by starting work with so small an appropriation:

	1903		1905
Dwellings	\$2000		\$1500
Warge-harns		1000	1000
Live-stock experiments		5000	****
Cottle sheds and Vards		750	
Teams and equipment	2500	****	
Threshing outut		****	
Fencing		700	
Implements		1000	
Horticulture Current expenses	2000	1200 4000	
Water plant		2000	
Crook-crossings, bridges, etc.		DUU	
Salary superintendent		1200	1200
Mercer 9	-		

The appropriation made by the preceding session was but \$3,000 per annum. Where this was expended is perhaps suggested in the statement of what has been done.

Totals..... 6500 19600 9950

It is certainly to the interest of every farmer in the State, and especially of the Western half that no less and more if possible than the above statement of needs be appropriated by the present Legislature.

Railroad Transportation of Fine Stock, Its Evils.

C. W. TAYLOR, PEARL, KANS.

Paper read before the Kansas Improved Stock-Breeders' Association.

At the present time this is one of the matters which should urge itself upon all shippers of stock, and particularly those handling the pure breeds.

The railroads accept our shipments and show us a schedule of time when they leave our station and when they should arrive at point of destination. This seems practically all the use they have for schedule, for after we have them loaded they handle them as they please. The trainmen can not, with the present management, pay attention to schedule. They arrive at our stations late, and of course are entirely dependent upon the despatcher. While he may do his best in the present ways of railroading, he can not get them on the road on time, for the reason that any engine coming from the shops listed to pull five hun-dred and fifty tons, regardless of its condition, if sent out on the road, sticks on a grade, breaks down, or has to double in to the next town. These engines are run just as long as they will hold together. A train-man re-cently told the writer he had not been able to have an engine repaired for eight days and did not know whether he would be able to roll a wheel or not. A crew comes in off of a division twelve or fourteen hours late, and

there is no question, but if its tonage is short it must explain. A few years ago the making of time was the requisite, now it is all tonnage.

At the time for shipment we are shown another schedule, namely, freight rates. These do not vary nor are they behind time, but we must pay them fully or have no service. We pay our money for service we do not get, and under other circumstances the law would claim we had been defrauded. Getting our adjustments of a damage claim is a myth. If we get anything the time and expense devoted to it will eat it up. This rate business is perhaps the greatest disadvantage the breeder has to contend with. In my experience many parties wanting to purchase stock, have objected so seriously to the high freight rates that I have lost the sales and they have bought inferior animals in their own vicinity. In cattle for instance, the Western classification is something like this: A crated calf under 1 year old can be shipped at one and one-half times first-class rate, and anything over 1 year old takes the first-class rate. or a 200-pound calf shipped by freight you will be charged the same as for 500 pounds, or 78 cents per hundred for each one hundred miles. Thus making a 200-pound calf cost \$3.90 per 100 miles. Again, for a 700-pound calf, should he be over 12 months old, you are compelled to pay the rate for 2,000 pounds, or on a distance of 100 miles, it will cost you \$10.40. It costs you \$3.90 for a 500pound calf (or anything under 500 pounds) for each 100 miles, and \$10.40 for 700 pounds of anything over 1 year old, making the difference, 200 pounds, cost you \$6.50. Thus you pay \$6.50 to ship 200 pounds 100 miles, and \$3.90 to ship 500 pounds the same distance. Before the company will accept your consignment at the above rate, you must sign a release in case of death or injury for an amount far below the animal's actual value. Horserates are very much the same as cattle-rates. Let us look at the hog question. It

so dangerous to ship a hog by freight, that, owing to disease which has been carried in this same car, a shipment of a single hog is hardly ever freighted. One dare not run the risk, so must ship by express. Should he be compelled to ship but a short distance, and have two express companies do the work, he must pay the drayage from one depot to the other and also pay a double rate of express. A man shipping a hog by express, say 25 miles with one company, and 10 miles with the other, is charged a double rate or it costs him as much to ship 35 miles as it costs to ship 100 miles with one company. In expressing other fine stock the case is the same. Wny not pro rate?

Here is a man who is shipping one horse that he feels that he can not get full value for at home, and the remainder of his fat hogs, which just fill a car. He has built a good parti-tion to keep the horse separate from the hogs, but to his surprise finds that he must pay the highest rate for this common-stock car, which is the horserate, merely because he has loaded one horse. Thus he is charged for a full car of horses. The same thing applies to a mixed car of hogs and cattle. You pay for a full car for whichever requires the higher rate.

Stockmen are not often lawyers and do not know just what rights legislu-tures have with corporations. But could not grievances be adjusted by our legislatures? I am told by stockmen that the railroads are now making all the profits owing to the way shipments are handled, and unless something can be done to remedy this evil it must and will work an even greater hardship to the breeder of pure-bred stock.

Anecdote of Wm. Warfield.

EDITOR KANSAS FARMER: -Sometime away back in the 60's or thereabouts, a gentleman from Virginia called upon Wm. warfield, the noted Kentucky breeder of Shorthorns, wishing to buy a heifer for the foundation of a small herd, and of course he was desirous of getting one of the best. They started out to look at the stock, and in the first pasture they came to what was a fine 2-year-old roan heifer to which Mr. Warfield called his attention. After looking her over the price was asked, and she was priced at \$200. A more critical examination was then made, and the desire expressed to be shown something better. Mr. Warfield at once suspected what was wrong, and it turned out that his diagnosis was correct, as we shall see. He asked to be excused for a few minutes, on the plea of having forgotten something,

BE STRONG WOULD YOU OTHERS SAY WE SAY Enfield, Conn., May 1, 1902.

Last Fall, having a terrible backache, itried everything I could think of and having some of Watkins' Vegetable Anodyne Liniment in the house, I applied that, and in a few hours I felt better and in a week I was entirely cured. It is also the best thing for colds, sore throat and all throat and head troubles.

MRS. MABEL HANDLEY.

Dover, Minn., May 16, 1902.

I have used Watkins' Veterinary Ointmen for sore shoulders, neck and barb wire cuts, and found it by far the best and cheapest ointment I ever used.

J. I. VERMILYA. WATKINS' Vegetable Anodyne Liniment. (Ry Man or Seats)
will save doctor's bills and may save your life.
of our agent—a special bonded representas of the largest company of the kind in the
rid. He brings a \$500,000 laboratory to your
r. Watkins' Home Doctor and Cook Book Free.
The J. R. Watkins Medical Co.,
We have a good proposition for agents in uncoccupied territory) HELP

and retraced his steps until he found a colored boy in his employ, whom he instructed to remove that heifer into a different pasture, as soon as they were out of sight. He then returned to the other, and they continued their walk other, and they continued that the stock. In course of time they came again upon the \$200 heifer in another pasture, and Warfield again called his attention her, and said there was a fine heifer he could have for \$400. The gentleman gave her another close examination, and concluded to take her. Then War-field politely informed him she was the same heifer he had first priced at \$200. To say that he was non-plussed is per-haps a mild expression, but of course his confidence in Warfield was materially strengthened. He went home without buying, but soon ordered by mail a heifer of Warfields own selec-tion and price. This story was told me by a Shorthorn breeder who was a personal friend and customer of Warfield, and there is no doubt it is substantially correct.

As this may be read by a large num-

ber of Shorthorn breeders, I will suggest this question to all of them, viz., under the same circumstances, how many of us would have sold the heifer at \$400? All who would not, please hold up the right hand.

D. P. NORTON. Dunlap, Morris County.

Lime With Salt for Abortion.

EDITOR KANSAS FARMER:-I saw in the Farmer an inquiry in regard to abortion in cattle. Two years ago I was bothered with the same trouble. I tried everything I could hear of and could get nothing to stop it. I used lime in water-tanks, I used carbolic in the barns, on the cattle, and still they lost their calves. It began in my Durham cows first, then went through my herd of some thirty odd head. I noticed one day in one of our county papers a cure. I tried it and am happy to say I have never lost a single cell since. Take alreaded single calf since. Take air slacked lime, one part to two of stock salt; give them no other salt. They may not lick it much at first, but they will get enough to do them good. Keep lime in water-tanks and use carbolic acid in your barns and I think the trou-ble will stop. Don't use this receipt once and then quit, but keep it up for some time after the disease has stopped. If this does the readers of the Kansas Farmer any good I will be glad to hear from them.

ISAIAH SPRIGG. Lewis, Edwards County, Kansas.

Carbolic Acid for Contagious Abortion.

EDITOR KANSAS FARMER: -- Some one asks for a remedy for epidemic abortion. I got it in my herds in the fall of 1900, and lost 50 per cent of calves in spring of 1901. In the spring of 1902 I saved every calf. I fed to the cow carbolic acid every other day for about one month; fed it in small quantities at first, gradually increasing it to a little more than one dram at a Diluted it in water and mixed it with ground feed.

W. M. CAMPBELL. St. John, Stafford County.

How's Thisl

We offer One Hundred Dollars Reward for any case of Catarrh that can not be cured by Hall's Catarrh Cure.
F. J. CHENEY & CO., Props., Toledo, O. We, the undersigned, have known F. J. Cheney for the last fifteen years, and believe him perfectly honorable in all business transactions and financially able to carry out any obligations made by their firm. firm. West & Truax, Wholesale Druggists, To-

West & Truax, Wholesale Druggists, Toledo, O.
Walding, Kinnan & Marvin, Wholesale
Druggists, Toledo, O.
Hall's Catarrh Cure is taken internally,
acting directly upon the blood and mucous surfaces of the system. Price, 75
cents per bottle. Sold by all druggists.
Testimonials free.
Hall's Family Pills are the best.





REX CONDITIONER

Endorsed by State Veterinarians. Every Package Guaranteed Especially for "Out of Condition," wormy, or "run down" stock of all kinds. It's made upon honor. Accept no substitutes. Farmers, Stockmen, Get It, Try it, and you will stay by it. 25-cent, 50-cent, 75-cent and \$3.00 packages. We are also exclusive manufacturers of Rex Lice and Mite Killer, Rex Poultry Food, Rex Hog Remedy, and Rex Stock Food. REX STOCK FOOD CO., OMAHA, NEBRASKA.



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Car-Loads Scrap

We want ten car-loads of scrap iron, machinery castings, etc., to make our Subsurface Packer. Must have at once.

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The Thompson Galloways.

The first annual sale of Galloway cattle from the famous herd of I. B. & A. M. Thompson, Nashua, Mo., was held at the Kansas City sale pavilion on January 13, 1903. The crowd was not a large one and the animals, though in good breeding condition, were not show fat. The top of the sale was brought by Highland Mary 7th, the show cow, who went to Dr. Bailey for \$725. Dot of Nashua sold for \$700, the second highest price. As a hint to adverfor \$725. Dot of Nashua sold for \$700, the second highest price. As a hint to advertisers who have live stock for sale, the following summary showing the States sold to is significant: Kansas, 19; Colorado, 10; California, 11; Missouri, 12; Nebraska, 1; total, 53. The sale in detail was as follows:

Highland Mary 7th, W. C. Bailey, San BULLS.

BULLS.

Princely of Nashua, Geo. W. Wood. 150
Chauncey of Nashua, Geo. W. Wood. 105
Crittenden of Nashua, W. C. Bailey. 80
Staley of Nashua, Robert Dey. 90
Chester of Nashua, A. M. Ricklefs,
Bendena, Kans. 90
Highland Chief of Nashua, Geo. W.
Wood. 145
Bismark of Nashua, Lee Cossard. 70
Stanley of Nashua, James Dobbs. 75
Stanley of Nashua, James Dobbs. 75
Colfax of Nashua, James Dobbs. 75
Colfax of Nashua, James Dobbs. 75
Carland of Nashua, James Dobbs. 75
Carland of Nashua, James Dobbs. 75
Carland of Nashua, James Dobbs. 75 SUMMARY. 31 cows sold for \$4,140; average....\$133.54 23 bulls sold for 1,850; average.... 80.43 54 head sold for 5,990; average.... 110.92

The Armour-Funkhouser Herefords. When the most famous of imported and the most famous of domestic herds of Hereford cattle are drawn upon for the purpose of making a public sale, it makes an event worth going miles to see. The two days sale of the Armour-Funkhouser Herefords, which was held at the Kansas City sale pavilion on January 14-15, was characterized by fairly decent weather, a good crowd and reasonably good prices, although there was nothing 'sensational in the price brought by any animal. The top of the sale was brought by the show cow, Florence H., who went to Benton Gabbert for \$860.

cows.

Blessing 5th, Funkhouser to L. P. Lar-Manette, Funkhouser to Gilbert & Pat-Patterson 505
Wilton Maiden (imported), Armour te

Ethel (imported), Armour to C. E. Harper. 250
Glowworm (imported), Armour to L. F. Hughes, Allerton Iowa. 220
Cyra, Funkhouser to F. A. Baylis, Des Moines, Iowa. 180
Sorceress (imported), Armour to J. A. Harper. 350
Spangle 67th (imported), Armour to T. P. Bush, Coffeysburg, Mo. 335
Grace (imported), Armour to J. E. Logan, Kansas City, Mo. 200
Bountiful 3d (imported), Armour to Egger Hereford Cattle Co., Appleton City, Mo. 650
Lady Baroness 2d, Armour to Wm. Howell. 205

Venus (imported), Armour to H. A.
Naber Wallula Kans.

Rama (imported), Armour to T. P.
Rush.

And H. A. Hunter, Orangeville, Can. 255
Florence H., Funkhouser to Benton
Gabbert, Dearborn, Mo. 860
Dolores, Armour to Jones Bros. 195
Missouri Queen, Armour to J. Johnson, Sclo, Ore. 190
Pearl Barley (imported), Armour to W. H. and H. A. Hunter. 300
Silly Girl (imported), Armour to T. P.
Rush. 180
Maydine, Funkhouser to A. J. Johnson, Sclo, Ore. 240
Fine Lady (imported), Armour to H. A.
Naber. 240
Fine Lady (imported), Armour to J. Chine Lady (imported), Armour to Geo. S.
Redhead. 300
Emerald 2d, Funkhouser to T. P.
Rush. 260
Floss (imported), Armour to T. P.
Rush. 280
Floss (imported), Armour to T. P.
Rush. 280
Rosina (imported), Armour to J. E.
Rosina (imported), Amour to J. E.
Charmer 3d (imported), Armour to W.
H. and H. A. Hunter. 220
Loyal Lady (imported), Armour to W.
H. and H. A. Hunter. 220
Loyal Lady Smith (imported), Armour to W.
H. and H. A. Hunter. 225
Begonia 8th (imported), Armour to W.
H. and H. A. Hunter. 255
Begonia 8th (imported), Armour to W.
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H. and H. A. Hunter. 255
Begonia 8th (imported), Armour to W.
H. and H. A. Hunter. 255

Naber 205
Prinsoll Grove 6th (imported), Armour Prinsoil Grove 6th (imported), Armour to Jones Bros. 220
Vivian, Funkhouser to A. J. Johnson... 200
Lucy (imported), Armour to L. F.
Hughes. 190
Minnie 11th (imported), Armour to Jones Bros. 175
Day Dream (imported), Armour to Geo. W. Jennings. 270
Virtue Funkhouser to Jones Bros. 230
Dowager 15th (imported), Armour to W. H. and H. A. Hunter. 350
Geneva (imported), Armour to W. H. and H. A. Hunter. 250
Gentle (imported), Armour to T. P.
Rush. 225

BULLS

March On Chief, Funkhouser to Geo. Hesiod 7th, Gibson to J. S. Baskett... 180
Hesiod 94th, Funkhouser to Wm. Howell... 155
Milo, Funkhouser to W. E. Raynor, Stamford, Tex... 155
Onward 10th, Funkhouser to W. E. Raynor... 145
Saxon, Armour to Israel Grinnell, Hays City, Kans... 170
Hesiod 91st, Funkhouser to W. E. Raynor... 155
Highland Dean 2d, Armour to C. A. Stannard, Emporia, Kans... 110
Armour Dignate, Armour to L. H. Luckhart, Tarkio, Mo... 125
Onward 11th, Funkhouser to H. J. Leforce, Pond Creek, O. T. 155
Bluther, Funkhouser to H. L. Libby, La Plata, Mo... 165
Buda, Armour to Silas Garrett, De Soto, Iowa... 155
Gentry Hesiod 51st, Funkhouser to Wm. Howell... 150

"C. C. C." on Every Tablet.

Every tablet of Cascarets Candy Cathartic bears the famous C. C. C. Never sold in bulk. Look for it and accept no other. Beware of fraud. All druggists, 10c.

The Duncan-Bothwell Shorthorns.

The Duncan-Bothwell Shorthorns.

A goodly crowd was present in the sale pavilion at the Kansas City stock yards on January 16 to participate in the combination sale of Shorthorns from the Clover Blossom, Maple Hill and Elm Grove herds. The contributors were: Messrs. Geo. Bothwell, Nettleton; H. C. Duncan, and Jos. Duncan, Osborn, Mo. The top of the sale was brought by Phyllis of Fairview 8th, who went to T. J. Wornall & Son for \$180\$. Some of the cattle were in rather thin flesh and none of them had been especially fitted for the sale. There were no pure Scotch cattle offered, and hence, as things are now going, there were no fancy prices realized. However, a number of the buyers were able to carry away Shothorns from this sale at very moderate prices, indeed. The sale in detail is as follows:

cows. Flora of Maple Hill, A. L. Bedford, St. Alice Mar Bedford Geo, W. Jennings, Grain Val-Kans.... Moss Rose of Elm Grove 92d, Henry Stunkel 1 Elm Grove 92d, Henry 115
Bina B. (and calf), J. Wears, Hamilton, Mo. 100
Belle of Maple Hill 2d, T. J. Wornall & Son, Liberty, Mo. 75
Beauty (calf at foot), A. L. Bedford. 115
Duchess of Kansas, A. L. Bedford. 155
Phyllis of Fairview 8th, T. J. Wornall & Son. 150
Llewellen of Mark. 150 kel. 105
Fancy 36 (and calf), A. L. Bedford. 100
Mabel's Lady, Henry Stunkel. 120
Red Lady, R. Scott. 130
Moss Rose of Elm Grove 91st, W. W.
Cant. 75

BULLS.

Blocky, A. L. Bedford. 75

Baron Maple 193694, C. F. Wolf & Son,
Ottawa, Kans. 50

Duke of Hastings 174994, R. Scott. 80

Jupiter 190707, R. Scott. 65

Master Clifford, W. W. Cant. 95

Rustler of Maple Hill 179653, Ferd T.
Bates, Lexington, Mo.
Lord Phyllis, R. W. Hickman, Orearville Mo. 85

Magenta 6th 190243, M. Zimmerman 90

Breeders' Combination Sales at Wichita.

Don't forget that the second annual breeders' combination sales at Wichita, Kans., February 3, 4, and 5, advertised for the last time this week, without doubt will be the best chance offered in the West this year to buy high-class Percherons, Shorthorns, and Poland-Chinas all of which will be at this sale. From the quality of the offering in last year's sale no one will be in doubt as to the same this year. A great many of the offering were prizewinners at the Missouri and Kansas State Fairs and other leading Western exhibitions last year. There are probably more State Fair winners included in the different sales than were ever included in any sale in the West in recent years.

cluded in any sale in the West in recent years.

On Tuesday, February 3, fifty head of registered Percheron and English Shire stallions and mares, consisting of select consignments from the breeding establishments of J. W. & J. C. Robison, Towanda, Snyder Bros., Winfield, and Henry Avery & Son, Wakefield, Kans.

On Wednesday, February 4, sixty head of choice regisered Shorthorns from the herds of J. W. & J. C. Robison, Towanda, Snyder Bros., Winfield; G. D. Stratton & Son, Walton; Fred Cowley, Columbus; and Harrington Bros., Clearwater.

Thursday, February 5, Snyder Bros., of Winfield, will sell sixty head of registered Poland-China hogs. Snyder Bros. have the following to say regarding their consignment:

"Our offering will be a great deal bet-

have the following to say regarding their consignment:

"Our offering will be a great deal better than last year's, and consists of the 6-year-old prize-winning Shire stallion that won first in class in all the principal fairs of the State; and the first-prize 3-year-old Shire stallion and the 2-year-old that won every first prize excepting at Topeka, where he was second. The Percherons are also an exceptionally good lot, especially the 2-year-old Cowley King; he is undoubtedly one of the best 2-year-olds to be sold this year, weighing now nearly 1,900 pounds, in good strong growing flesh, stands on the best of feet, and especially strong- clean boned, with that wonderful style and action of his, making him a most desirable horse. In fact we consider him good enough to head any stud of pure-bred

The "1900" Ball-Bearing **WASHING MACHINE** SENT FREE

without deposit or advance payment of any kind, freight paid both ways, on 30 days' trial. Unquestionably greatest family labor saver ever invented. Saves time, expense, and wear and tear. Will do the family washing without boiling clothes, hand-scrubbling, or back breaking. Revolves on bicycle ball bearings and is therefore easiest running washer ever made. Will do two hours' washing in ten minutes.

Washes collars, cuffs, laces, and the most delicate materials perfectly clean and positively without tearing them or wearing out a single thread. It will wash blankets, bed spreads, and the heaviest clothes just as easily and thoroughly. Clothes are torn and worn out more by wash boards and out-of-date hard rubbing washers than they are by use. The saving in soap, coal, and wear and tear of clothes willipay for machine in a short time.



ABSOLUTE PROOF.

\$1,000.00 will be paid if this letter is not genuine.

KANSAS CITY, Mo., May 14, 1902.

I have given your washer a fair trial. It is the best washer I ever raw It has washed our heavy blankets with ease. I washed them last spring and rubbed more than an hour, and yet they had to go through again, but the "1900" Washer cleaned them thoroughly clean. We do our washing very quick and have no tired and worn-out feeling as of old,

Mrs. J. L. BANNER, 4302 Troost Ave

Remember—You take absolutely no risk, incur no expense or obligation whatever. The Washer is sent by us on 30 days' trial, freight prepaid coming and going, and positively without any advance or deposit of any kind.

THE "1900" WASHER CO., 256 F, State Street, Binghamton, N. Y.

mares, and he should attract the attention of the best breeders in the land. His breeding is such that he should produce the right kind of colts, his dam being an exceptionally large mare out of imported Loret, by the great Valiant 404, and his sire strongly bred in Brilliant blood-lines. The mares are good class, in good thriving condition, all good work mares, and all are breeders. We will also consign two dark-colored weanling stallion foals, sired by Frascati and out of dams by a son of Brilliant 1271. These are an especially good pair of colts, half brothers to the large 2-year-old, and are as promising now as he was at their age.

"The Shorthorn cattle are in just good

the large 2-year-old, and are as promising now as he was at their age.

"The Shorthorn cattle are in just good breeding condition, will not have any surplus of flesh, but will be in shape to grow on to buyer's advantage. The cows are bred to a double-standard bull, and most of them will likely produce hornless calves which are much in demand at present. Our Poland-China offering will consist of about thirty young sows and gilts, most of them bred to Missouri's Black Chief's Rival, a half brother to the noted \$1,000 Missouri's Black Chief, and out of a Look Over Price sow, half sister to the sow that produced the \$960 litter, the highest price litter sold in 1901. These are an especially thrifty lot of stuff, and will produce results that can not help but be satisfactory from such breeding and individual merit, and the way they have been grown. The balance of the offering will consist of young boars and open gilts."

The Shorthorn consignment of G. D. Stratton & Son. of Walton, Kans., on

grown. The balance of the offering will consist of young boars and open gilts."

The Shorthorn consignment of G. D. Stratton & Son, of Walton, Kans., on February 4, consists of fifteen head, twelve bulls and three young cows. The cows will all bring calves early in the spring. Our bulls are all red, and range in age from 8 months to 2 years old, and will be in good breeding condition. Five of them are sired by Baron Victor 135383, he a grandson of the imported Ducal Crown. Five are sired by the herd bull, Dandy Cup 163396, a grandson of the iported Cup Bearer. The other two are Bates-bred, one of them, Kirklevington Count 5th, was sired by the fine K. King bull that sold for \$1,000. Those having seen these bulls think they are as good a lot as was ever offered in a public sale in Kansas.

The draft horse sale begins February 3.

ever offered in a public sale in Kansas ever offered in a public sale in Kansas. The draft horse sale begins February 3. Among this number that deserve special mention is the grand Percheron mare, Bijou 18372, which, like most of the other horses in the sale, is a beautiful black and weighs more than a ton. She was a winner of first prize and sweepstakes at both the Missouri and Kansas State Fairs last year; also winner of first prize at the Southwestern Exposition at Wichita and also at Eldorado. She is an outstanding draft mare and a blood mare; will be within four weeks of foaling at sale-time to the service of the great Casino (45462) 27830, who was also winner of first prize and sweepstakes at the above fairs last year, besides being a prize-winner at the National Show of France the previous year. Among the others of the State Fair winners that deserve special mention is the beautiful weanling filly, Sultana 30854, and the weanling stallion colt, Reveurette 2830, both of which cial mention is the beautiful weanling filly, Sultana 30854, and the weanling stallion colt, Reveurette 2880, both of which are models of their breed. Among the stallions to be offered that will attract special attention is the imported Percheron Bouvard (45552) 25971, that was imported by J. W. & J. C. Robison and used by them two years. He is a black and will mature at more than a ton. Another one that was a first prize-winner at the Missouri and Kansas State Fair and other Western Fairs last year is the yearling stallion Nicodeme 27759, that was pronounced by many as the best yearling stallion seen in the show-ring in recent years.

Among the 2-year-old stallions that deserve mention is Cowley King 28705, that weighs 1,850 pounds at 30 months old. He was also a prize-winner at several of the leading Western fairs. Possibly the best bred mare to be sold at public auction this year in America is included in this sale. She is the black mare, Endymion (2919) Illi6, the greatest producer of prize-winners known to the Percheron breed. There will also be included in the sale some extra good young high-grade Percheron stallions that in some localities would probably answer the purpose of a more expensive horse. For those wishing something lighter than the Percheron and Shire horses there will be two very fine registered French Coach stallions, com-

AFTER MANY YEARS

How Good Fortune Came at Last to a Woman in Southern Missouri.

Good fortune sometimes comes after hopeless years of waiting. So it was with Mrs. T. M. Taylor, of No. 737 West Walnut Street, Springfield, Mo. For years she had suffered with severe stomach troubles but Dr. Williams, Pink Pills for Pale People cured liams' Pink Pills for Pale People cured her, as the following interview will

"I was afflicted with stomach trouble for about ten years," she said to a reporter. "About a year ago it became acute. Just before confinement I was taken violently sick and had fifteen convulsions. I was under the constant care of a physician for months, but did not get more than temporary re-lief My stomach felt as if it were full of stones, my kidneys had become affected and my back hurt dreadfully. Sometimes I could hardly get around because of the plain, the least exertion put me out of breath, my head would get dizzy till everything seemed to swim around me, my limbs ached—I

was miserable.

"How was I cured? By Dr. Williams' Pink Pills for Pale People. I saw an account in a paper of what this remedy had accomplished in a somewhat similar case and I began taking them. One box caused an improvement and I kept on taking them till now I feel better than I have for

till now I feel better than I have for years. Both my husband and myself never fail to recommend Dr. Williams' Pink Pills to all who are ailing."

Mrs. Taylor took a medicine that attacked her trouble at the root—the blood and nerves. Poor blood and disordered nerves are at the seat of nearly all the ailments which afflict mankind, and Dr. Williams' Pink Pills for Pale People have been proven to be a certain remedy for all diseases arising from this cause. They will cure locomotor ataxia, partial paralysis, St. Vitus' dance, sciatica, neuralgia, rheumatism, nervous headache, the aftereffects of the grip, palpitation of the heart, pale and sallow complexions and all forms of weakness, either in male all forms of weakness, either in male or female.

Dr. Williams' Pink Pills for Pale People are sold by all dealers, or will be sent postpaid on receipt of price, 50 cents a box; six boxes for \$2.50, by addressing Dr. Williams Medicine Co., Schenectady, N. Y. Be sure and get the genuine—substitutes never cured anybody. Send for free booklet of medical advice. medical advice.

ing 3 and 4 years old. Both are bays and good ones. Reduced rates on all railroads. Ask for certificate at time of purchasing ticket.

Important to Horse-Breeders.

Important to Horse-Breeders.

H. W. Avery, of Henry Avery & Son, Wakefield, Kans., owners of the oldest and largest Percheron breeding establishment in the West, notifies us of a very important and far-reaching decision of the Treasury Department. This is to the effect that no horses can be imported free of duty except when brought over for his own use by the importer or for breeding purposes. Other horses must pay a duty of 30 per cent. This means a great deal to the American breeder who uses imported sires, as it will enable him to import the best 'blood of France for use in his herd and offer it to his customers under the improved conditions of climate and feed to be found here. On the other hand, the speculative horse companies who do practically no breeding will be compelled to pay the duty on everything brought over. Breeders like the Averys, who grow their own stock, will be in better position than ever to supply what is really imported blood at American prices. This is what they have always done, and in doing it Mr. H. W. Avery has won the distinction of being the best judge of Percheron herses in the West; and, for his age, one of the best in the United States. In the live-stock gossip column will be found some mention of their contribution to the great Percheron sale at Wichita on February 3, next.

Oklahoma Live-Stock Events.

Oklahoma Live-Stock Events.

On February 10, 11, and 12 several very important live-stock events will occur at Oklahoma City, consisting of the ninth annual convention of the Oklahoma Live-stock Convention, of which W. S. Bolton, of Woodward, is secretary. This convention is made up of leading stockmen and breeders from Oklahoma, Kansas, Texas, and Indian Territory. Their last annual meeting was held at Wichita one year ago and was a tremendous success. During the annual meeting there will be some important sales of Hereford and Shorthorn cattle, consignments from leading breeding establishments in Kansas, Oklahoma, and Missouri. On February 10 and 11, 1903, there will be sold at public sale eighty head of well-selected and high-class Hereford cattle in Oklahoma City, consigned by Gudgell & Simpson, Independence, Mo.; Scott & March, Belton, Mo.; C. A. Stannard and Mrs. C. S. Cross, Emporia, Kansas; Alvin G. Balwin, Guthrie, Okla.; and W. N. Shellenbarger, Oklahoma City, Okla. For

WHEN THE WAY

catalogue of the Hereford sale address
C. A. Stannard. Emporia, Kans.
On February 12, sixty Shorthorn cattle, the property of the well-known breeders, Geo. Bothwell, Nettleton, Mo., and J. F. Stodder, Burden, Kans. The offering will consist of thirty-nine cows and heifers and twenty-one bulls, all carefully selected individuals that are known to be regular breeders and that will prove producers of a good type of Shorthorns for the future owners. The Bothwell heifers are a grand lot of the thick-flesh kind and have been bred to such bulls as imported Wanderer's Last, Chief Cruickshank, Nonpareil Star, and Nonpareil Comet.

The Silver Creek Herd consignment, by J. F. Stodder, Burden, Kans., is superior in many respects to his offering last year at Wichita, as he has, through the use of such Scotch and Cruickshank bulls as Aconite's Champion's Best, Gwendoline's Prince, and Imp. Aylesbury Duke, received the best blood obtainable. Many of the Silver Creek females will have calves at foot by Imp. Aylesbury Duke and others safe in calf to him. For catalogue of the Shorthorn sale address J. F. Stodder, Burden, Kans.

The Omaha Whiteface Sale.

The Omaha Whiteface Sale.

The combination Hereford sale held at South Omaha Stock Yards, in which so large a number of good herds were represented, proved to be quite successful. Fifty-nine females sold for \$8,615, an average of \$146.02. Thirty-seven bulls brought 5,780, average \$155.21. A total of ninety-six head brought \$14,395, average \$149.95. Mr. W. W. Gray, Fayette, Mo. who is the owner of the great herd bull, Printer, contributed a goodly number, on which he received handsome prices. The sale was attended by a large number and was considered fairly satisfactory. Those who contributed animals to this sale were as follows:

W. W. Gray, Fayette, Mo.; Stanton Breeding Farm Co., Madison, Neb.; W. N. Rogers, McCook, Neb; Fred Eason, North Bend, Neb.; O. M. Bovee, Anita, Iowa; F. A. Baylies, Des Moines, Iowa; Wm. Wilson, Blair, Neb.; W. R. Wonderly, Hebron, Neb.; C. L. Bullard, Creston, Iowa.

Angus Cattle Sell Well.

Angus Cattle Sell Well.

The dispersion sale of the Glendale Aberdeen-Angus herd of Joseph Tyson & Co., of Redwood Falls, Minn., at Dexter Park, Chicago, January 22, was a success. The total amount realized was \$26,405, which is an average of \$347.43 on 76 head. The 62 females sold brought \$21,630, an average of \$348.87.

Fourteen bulls were sold, realizing \$4,775, an average of \$341.07.

The event of the sale was the auction of the great Glendale herd-bull. Imp Proud Fellow of Aberlour 34761. He was bought by C. J. Off of Peoria, Ill., at \$1,000. Mr. Off was the heaviest purchaser at the sale.

Imp. Aberlour 41201 went to E. W. Lockie, of Maple Leaf, Iowa, for \$1,000. Mr. Lockie was also a heavy purchaser. Geo. Stevenson, of Waterville, Kans, paid \$790 for a cow, Pride of the Glen 7th. and S. M. Lutz, of Wabash, Ind., paid \$605 for Imp. Pride of the Dale.

Gossip About Stock.

The numerous inquirers for Duroc-Jersey brood sows should not overlook the sale of the famous "Reds" to be held at the farm of J. B. Davis, at Fairview, Brown County, on Thursday, February 5, 1903.

On Monday, February 6, 1903, J. S. Mc-Intosh's public sale of Shorthorn cattle at Manhattan, Kans., will be the occa-sion of dedicating the new fine-stock sale-pavilion erected by C. P. Dewey for this and future stock sales at Manhattan.

On January 22, there was held a breeders' combination sale of Herefords at South Omaha. Consignments made by Missouri, Iowa, and Nebraska breeders. Forty-three head sold for \$7.260, average of \$165. Eighteen bulls averaged \$180.55 and twenty-six cows and helfers averaged \$154.23.

We call special attention to the specially designed poultry advertisement of Burton's Blue Blooded Beauties. White and Barred Plymouth Rocks. Mr. Jas. Burton is an old-time Kansas breeder, as well as a draughtsman and engraver. Kansas breeders who wish some special designs should write him at Fort Scott, Kans., and at the same time send him an order for some fancy poultry.

Everybody is invited to attend the ninth annual meeting of the Oklahoma Livestock Association. at Oklahoma City, February 10-12, 1903, and are particularly requested to inspect the high-class offering of eighty head of registered Hereford cattle, consisting of forty bulls of serviceable age, and forty cowa and heifers. Write for catalogue to C. A. Stannard, Emporia, Kans.

The Shorthorn bull trade in Shawnee County took quite a spurt in favor of M. M. Sherman, of Geneseo, Rice County, who purchased this week two bulls of H. W. McAfee. Topeka, eight head of T. K. Tomson & Son, Dover, eight head of T. P. Babst & Son, Auburn, and three of Geo. W. Cook, Dover, and six bulls of H. O. Tudor, Holton, Kans. The twenty-seven head go to Mr. Sherman's ranch near Geneseo, Kans.

Over seventy head of Herefords, nearly all breeding cows, were purchased from the herds of G. H. Hoxie, Geo. Leigh, B. A. Hathaway, Tom Smith, and Harry Fluck by Bennallack & LaFrance and Robert Sinton, of Regina, Northwest Territory, Canada, last week. These men a year ago bought a number of Herefords which they report as having done splendidly in that country. There is a great demand for Herefords in all that section of Canada and it is expected that hundreds of them will be sent there in the near future.

T. T. Ziegler, breeder of Hereford cattle and Duroc-Jersey hogs, La Harpe, Kans., writes us to change his advertisement to keep pace with his business. He says: "I have had a very flattering sale of Durocs while they lasted. I have shipped hogs all over the eastern part of the State and finally closed out the last of my bred stock to Mr. Johnson Workman, Galt, Kans., who took thirty-four head of pure-bred breeders."



The Old Reliable Anti-Friction Four-Burr Mogul Mills

No gearing; no friction. Thousands in use. Four-horse mill grinds 60 to 80 bushels per hour; two-horse mill grinds 30 to 50 bushels per hour. We make a full line of FEED MILLS, best ever sold including the famous Iowa Grinder No. 2 for \$12.50. Send for free Catalogue. Manufactured and sold by the

IOWA GRINDER AND STEAMER WORKS. Waterloo, lows.

Mr. Ziegler now has a few unbred young gilts and a few young boars left that he cares to sell. Should anyone desire some good Hereford heifers he is still able to supply a limited number. He winds up his letter by saying that the Kansas Farmer is a very successful advertising medium. His breeders card is on page 132.

Mr. Gilbert Van Patton, who is reckoned one of the most expert breeders of Duroc-Jersey swine in Nebraska, and who owns Goldenrod Herd at Sutton, which has won so many prizes in the State and other fairs last fall, writes that he is about sold out. Mr. Van Patton will hold a bred-sow sale of his splendid Durocs on February 19, in which he will offer thirty-five head, most of which are sired by Van's Perfection 11571, the great prize-winning boar. These sows and gits are guaranteed safe in pig to the best boars on the place, and may be had at this sale. Write to Mr. Van Patton for catalogue and full information. His breeder's card appears on page 132, and he writes us that he is very well satisfied with the results obtained by advertising in the Kansas Farmer.

when the Kansas Berkshire sale, which was to have been held at Topeka, was declared off, the Kansas consignors joined in with the Missouri breeders and will hold a Berkshire bred sow sale at Kansas City on Friday, February 6, 1903, under the auspices of the American Berkshire Association. The offering will consist of sixty head of Berkshires of extra quality from the Kansas herds of Chas. E. Sutton, Russell; O. P. Updegraff, Topeka; J. W. Wampler, Braziton; and Jos. Lytle, Garnett. The Missouri consignments are from the well-known herds of Evan Davies, Keytesville; W. F. Corbin, Hodge; B. M. Barnett, Jameson; J. N. Baughmen, Anson; W. E. Bradford, Harg; and Chas. G. Mills, Pleasant Hill. Sale will be held in the sale pavillon, Kansas City Stock Yards, on Friday, February 6, For catalogue address Chas. F. Mills, Springfield, Ill.

logue address Chas. F. Mills, Springson, 111.

Poland-China breeders interested in the fancy strains of the breed and who desire top-notcher animals for foundation or show stock, will be interested in the two sales to be held in the vicinity of Kansas City on February 6 and 7. On Friday, February 6, Winn & Mastin will hold their second annual sale at Oakwood Farm, Mastin, Kans., for which they have chartered a special train, which will leave the Union Depot at Kansas City at 10 o'clock, and will return to Kansas City as soon as the sale is over. The next day, Saturday, February 7. J. V. Cotta, sale mangaer, will sell fifty brood sows, consisting of choice drafts from the herds of T. N. Langan & Co. Clifton, Ill.; W. H. Mast. Ogden, Ills; and J. W. Wampler & Son, Brazilton, Kans. These sows are bred to such famous sires as Keep On and Keep On 2d. champions at the International Exposition at Chicago, 1902, and other State Fair prize-winners, comprising Perfection E. L., Perfection Likeness 2d, and Perfection Likeness. Most of the sows are first prize-winners and champions at the best shows in America, bred to the abovenamed sires. For catalogue of this sale address J. V. Cotta, Clifton, Ill.

O. P. Updegraff, of Riverside Stock

named sires. For catalogue of this sate address J. V. Cotta, Clifton, Ill.

O. P. Updegraff, of Riverside Stock Farm, Topeka, has recently purchased of M. K. Prine a boar by Snellgrove Jack, the Canadian and Pan-American sweepstakes winner. Referring to recent sales, he says they have been exceedingly good, and well they may be, as the Berkshire has proven to be "the" hog, and owing to a scarcity, prices will reach \$\frac{1}{2}\$ (5) per hundredweight sure. He has recently sold the following to J. D. Griffin, Kanopolis, Kans., boar; W. C. Rice, Gashland. Mo., boar; O. W. Baird, Marquette, Kans., a very choice show gilt; P. O'Reagan, Faulkner, Kans., boar; F. W. Weit, Effingham, Kans., boar; F. W. Weit, Effingham, Kans., boar; T. W. Curtis, Purcell, O. T., two choice gilts. The Riverside Stock Farm, of Topeka, run by O. P. Updegraff, will sell at the Berkshire brood sow sale at Kansas City, February 6, five very choice young sows with pig to good boars. Three of these sows are by King Blossom, a very broadbacked low-down boar of C. E. Sutton's breeding and two by Riverside Commander, a son of the imported Commander. All of the above are extra nice and are worth sending in a bid for to H. A. Heath, who will be in attendance at the sale.

G. E. Fuller, Morrowville, Kans., has an offering of bred sows and gilts to be sold on February 2 next, that are a credit at once to his skill as a breeder and feeder and to the breed which he represents. His catalogue has portraits of his two leading herd boars, one of whom is the only Sunshine boar in the State of Kansas. The type represented in this herd is characterized by large bone, long and deep bodis, well-developed hams, good head and ears and great records as breeders. Being of the strong bone variety their feet are very uniformly good and the conditions under which they are raised and fed are well nigh perfect. If Mr. Fuller does not have a record breaking sale of this quality of Poland-Chinas, it will be something of a surprise and due to other things than the breeding or quality of the hogs offered. Morrowville is just west of the city of Washington, in Washington County, and the Fuller farm can be reached from either this G. E. Fuller, Morrowville, Kans., has

town or Washington. Washington is on both the Missouri Pacific and the B. & M., while Morrowville is on the B. & M. Ample provision has been made for the comfort and convenience of visitors and the farm may be reached from either of these towns.

these towns.

Henry Avery & Son, of Wakefield, Kans., who have the largest and oldest breeding establishment in the West devoted to the breeding of Percheron horses, report an unusual demand for mares. During the last week they sold Astra 17355 to Lyman J. Coffman, of Manhattan, Kans. This great brood mare is the dam of Alexander 22512, entered in the great combination sale at Wichita, and is probably the best young stallion that will be offered at a public sale this year. Mr. Coffman is a student at the Agricultural College, and has charge of the stock in the horse department of the college. He reports unusual interest among students in the improved breeds of live stock. Another sale was a pair of fine Percheron mares to Harry W. Leavell, of Allen, Lyon County, Kans. He got the mare Vashti, which was admired by a great many at the judging school last spring; and Florinda 2d 22944, a proved brood mare. Mr. Leavell is a young man who does not allow the preliminary expense to prevent him from starting right in his herd of horses. Messrs Avery & Son have three mares and two stallions entered in the combination sale at Wichita on February 3. One of them is a Brilliant 3d mare, and it is predicted by some that she will attract buyers from several States, as she is the only mare from this greatest of Percheron sires that will be offered for sale this year.

Intending buyers of Well-selected and useful Shirthorn cattle should make a special note of the public sale of registered Shorthorn cattle to be held at Manhattan, Kans., February 16, 1993. This offering consists of a very select draft of 50 head from the Blue Grass Herd, which numbers 135 head, owned by J. S. McIntosh. located on his magnificent farm in the Kaw Valley, near Eudora, Kans. The offering consists of 32 cows and 14 helfers and 3 bulls. Twenty-six of the cows will have calves at foot by the noted Scotch bull, Color Bearer 127045. All the helfers of breeding age are safe in calf to the same. The cows are in splendid condition and will average fully 1,400 pounds or better. The writer saw about thirty-five calves sired by Color Bearer, and a more desirable and uniform breeder is not to be found. Mr. McIntosh has for several years been building up this herd, and expects to hold frequent sales, and therefore is quite anxious to have Juott horn breeders present to see the very attractive lot of cattle that he has put into this sale. This being his first public sale, he does not anticipate getting values such as the offering seem to warrant, but he has the utmost faith, if Shorthorn buyers are present, that future sales will compensate for what he may have to sacrifice on this first offering. Mr. McIntosh, who has been a generous buyer at the leading sales, firmly believes that the splendid breeding animals included in his sale will compare with the best ever offered in the State. For catalogue address J. S. McIntosh, Eudora, Kans.

Eudora, Kans.

The forthcoming sale of Winn & Mastin, of Mastin, Kans., to be held at the farm on Friday, February 6, and the one at Kansas City the day following, will constitute the notable Poland-China events of the season. As will be noticed by referring to the advertisement, the offering consists of fifty head of yearling and 2-year-old sows, all sired by noted males and bred to others of equally high rank. By reference to the catalogue the following is a partial list of the good ones included in this sale: Perfection Beauty 4th, by Chief Perfection 2d; Lady U. S. 2d, a prize-winner at the Iowa State Fair in 1900; Perfect Sunshine, by Ideal Sunshine; a Proud Perfection yearling, out of Perfect's Daisy, the sweepstakes sow at Illinois State Fair in 1900: another Proud Perfection yearling and out of Little Beauty I Know, the champion sow at the Trans-Mississippi Exposition at Omaha in 1898; a spring gilt by Lamplighter, out of the same sow, is a full sister; Proud Star Jr., the champion boar at the American Royal 1902; another of the young sows is a Proud Perfection yearling, out of Perfect I Know; also the spring gilt by Perfect Perfection, out of Heyl's Jewel 4th, which sold for \$240; an Ideal Sunshine fall yearling; a January yearling by Missouri Suffshinee, out of the sweenstakes sow at Sedalia in 1901; Beauty Maid, which they believe to be the best Missouri's Black Chief sow living, is another of the attractive things included in this sale. The foregoing are mentioned to show the high character of this offering. Send for catalogue to Winn & Mastin, Mastin, Kans., and be sure to be in Kansas City Union Depot in time for the free train which leaves for the sale at 10 o'clock a. m., February 6.

Duroc-Jersey people are certainly showing the black swine men a warm time and the record of the sales made in this State in the last season have been exceptionally good. When such men as J. B. Davis, of Fairview, Kans., announce a sale, something good may be expected. This sale will take place at Fairview on February 5, and will consist of about (Continued on page 125.) (Continued on page 125.)

NO MONEY TILL CURED. 25 YEARS ESTABLISHED.
We send FREE and postpaid a 200 page treatise on Piles, Fistula and Diseases of the
Rectum; also 100 page illus. treatise on Diseases of Women. Of the thousands cured
by our mild method, none paid a cent till cured—we furnish their names on application
DRS. THORNTON & MINOR, 1907 Oak St., Kaneas City, Me.

The Houng Folks.

Conducted by Ruth Cowgill.

STORM-BEAT.

Oh sing me not your songs of rest,
Of peace and plenty, fortune blest,
Of valleys calm and sweet.
But tell me a story of war and of strife,
Of the passionate surge of a stormy life,
With its victory and defeat.

For sweet to me is the tempest's roar, The thundering surge on a rock-bound

shore,
The bugle's angry blare.
For 'tis no soft seductive charm
That swells the heart and nerves the arm
Or tempts the soul to dare.

To live, to love, to do, to dare,
To ride in life's charge with sabre bare,
To conquer or to fall.
To face the foe with courage grim,
Till the hand grows weak, and the eye
grows dim,
At duty's bugle call.

All honor to him who, without a groan, In some fierce battle goes down alone,
His face toward the foe.
For he who worships Virtue's form
Must breast the billow, must face the storm, Must stand where the tempests blow.

And when at last the day is done, And we hear the boom of life's sundown

And we near the book
gun,
And Death beats the reville,
Then shall these storm-beat souls arise
On eagle wings to cleave the skies,
And great shall their guerdon be.
Jefferson, O. T. G. A. TANTON.

ANIMAL INTELLIGENCE.

I have seen so many exhibitions of intelligence among dumb animals that I can hardly say which is the greater, but I think perhaps the choice goes to a little Texas pony I own. One summer when she was about 12 years old, she and another mare that was one of her colts each had a mule colt.

One evening a little before dusk the two colts and the younger pony were playing on a hillside at the foot of which ran a barbed-wire fence.

The pony, "Old Lady" we called her, ran between them and the fence for several minutes and was evidently afraid that they would get into the fenec and injure themselves. At last becoming tired of such vigorous exercise she took them over the hill with all the skill of a Texas cattle-pony, and would not allow them to come back. She did the work perfectly as though guided by a skilled rider.

Another time she was out in the corral and she had backed up to the fence and was rubbing her hind legs when some of the hairs in her tail caught in a crack of the board and she was held fast. My brother happened to pass her and she neighed until she attracted his attention and he freed

She had been with an old mare named Sly almost all her life until this fall, when Sly died. It was in the early fall and the flies were still very bad and Lady stood over her all the time she was sick, and kept her head moving to scare the flies away. She only left her long enough to go to the creek for water and ate so little that e were compelled to take her from the pasture to keep her from starving herself sick. She is now 18 years old and in first-class condition.

ANNA A. BIGGS.

Sylvan Grove, Lincoln County.

A Wise Squirrel.

One of the most wonderful instances of animal intelligence that I ever witnessed was one afternoon when out hunting, I came to an old elm-tree which was partly hollow and was in-

habited by squirrels.

A squirrel was playing on one of the limbs, but upon seeing me it dodged behind a forked limb of the tree, and on my going around to the other side of the tree, the squirrel would dodge between the two limbs, always keeping on the opposite side of the tree, and not giving me a chance to shoot him, thus saving his life. This was kept up until I became tired, and abandoned the chase.

JAMES WARREN.
Mankato, Jewell County.

Two Smart Dogs.

Buff was a very ugly little dog, but what he lacked in beauty he made up in intelligence. One of Buff's tricks, a cold day, was to run to the end of the porch and bark as though some one was coming. When he had succeeded in getting some one to come to the door, he would dash past them into the house and curl up under the stove.

Another trick of Buff's was to place has front paws on the window sill and if you would look out he would shake as if he had the ague. Then if you would call out; "Shake, Buff, shake," he would shake if possible even hard

Another dog, which, like Buff, was Another dog, which, like Buff, was very intelligent, was an old churn-dog. On churn days, Grant made it a point to go to the field. If he was not noticed it was all right for him, because he would get out of churning. But if the men noticed him they would say, "Grant, you had better go home and churn," whereupon Grant struck out at the top of his speed for the house As the top of his speed for the house. As soon as he reached the house he leaped upon the wheel and commenced working with a vengeance. When he had finished he trotted back to the field and enjoyed himself with a clear conscience. Clara M. Wilson. Arkansas City, Kans.

An Intelligent Mule.

When I was a small boy, father bought a team of 3-year-old mules. One was just an ordinary mule, but the other one, which we called Jack, approached the nearest to human intelligence of any animal I have ever seen. He soon learned how to open the barn uoor, when it was latched, and was full of mischief or meanness in gen-eral. Of the many incidents in which he displayed his intelligence, I shall

mention but two.

A man by the name of Rickstraw worked for father, and he and Jack soon became intimate friends. After working several months, Mr. Rickstraw went to Missouri, where he stayed for three years. Coming back to visit relatives and friends, he came to our house for dinner one day. As he wanted to look around, we went out to the barn together. When Mr. Rick-straw entered, Jacked picked up his ears, sniffed the air, turned part way around in his stall, and looked at him. After looking him over, Jack told him in the best way he could, by low braying and by his excited motions, that he was glad to see him. Jack was not content until he had been recognized and petted.

Another time father and I were cut-Another time lather and I were cutting corn with a one-horse sled. I drove Jack, and father took care of the fodder. We had not been in the field more than an hour when Jack got lonesome and gave vent to his feelings by frequent brayings. He thought he had been away from Kate (the other mule) long enough, and made up his mind to go to her. Father was on the ground, and he had taken the lines and was turning around when Jack started to run. It was useless to try to hold him, but father held on until he was dragged loose. Jack's course lay through the orchard, past the house, and across a little hollow, to the barn. He carefully avoided running into the trees, but ran swiftly on until he came to mother's flower-gar-den; then he stopped short. After looking on each side, apparently de-siding the better way around, he walked carefully to the north, and then ran on to the barn. Whether he thought the flowers too pretty to spoil or not, we never knew; but he had a good reason anyway.

Winfield, Kans. ALVA L. SNYDER.

A Wise Pony.

When our little Mexican pony named Nellie, had her first colt, and I went out to the shed to see her, she was standing in the shed and the colt was lying down a short distance from her. When I came to the gate I stopped and said to her, "Why, Nellie, you have a nice little colt!" She first looked at me and then at the colt, and with a look of great pride and happiness in her eyes she nodded her head three times very distinctly. It was so plain and unmistakable that no one could be led to believe it was not meant that way; she said "Yes," as plain as a creature could who is not gifted with the power Whenever she gets thirsty and wants a drink, she will first whinny, then look up at the windmill, then whinny again, until some one turns the lever and the mill starts going; then she will look up at the windmill, then at the trough and keep this up until she gets water to drink. IDA MOYER. Junction City, Geary County.

Another True Dog Story.

We once owned a very intelligent She would lie down and let a



Neglect of a Cough or Sore Throat may result in an Incurable Throat Trouble or Consumption. For relief use

BROWN'S BRONCHIAL TROCHES. Nothing excels this simple remedy. Sold only in boxes.

As TIME is the stuff Life's made of, take it from an

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Elgin Watch

the timekeeper of a lifetime—the world's standard pocket timepiece. Sold everywhere; fully guaranteed. Booklet free.

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baby play around her until tired out; and on several occasions the child would make a pillow out of the dog and fall asleep. She would lie still until the baby awoke before making any move. When baby was beginning any move. When baby was beginning to walk she would let her pull herself up by her side, and walk around with her as carefully as a person. About that time we were bothered a great deal with cattle that run on the range herselfing into the fold, and the side. breaking into the field, and we would go round the fence every few days to see that it was kept up, and she soon acquired the habit of looking after the stock and keeping them away. One day when away from home the stock got in the field. She was seen running them out, and then lay down and watched the fence that was broken down until we came home in the evening. If a hog broke out she would put it back then lie down and watch the gap until it was repaired. We could talk to her and she would seem to understand as well as a person. M. GREEN.

Olathe, Kans.

Our prize for story on "Animal Intelligence" goes to Mrs. L. W. Truesdell, Concordia, Kans. The judge whom we appointed was Miss Leavitt, pro-fessor of English Literature at Washburn College.

We feel confident the other contestants will consider that the selection has been wisely made for the story of Hagar is both remarkable in itself, and well written. There were others, however, which were so good that we wished we had several prizes to bestow, so that the writers of these stories might know that their efforts were appreciated.

We shall be glad to hear again from any or all whose stories have appeared, on any subject that has the quality of real and genuine interest.

For the Little Ones

THE SNOW-BIRD.

When winter winds are blowing.
And clouds are full of snow,
There comes a flock of little birds
A-flying to and fro:
About the wither'd garden,
Around the naked field,
In ev'ry wayside shub or tree
That may a berry yield.

But when the snow-drifts cover—
The garden and the field,
When all the shrubs are cased in ice,
And ev'ry brook is sealed,
Then come the little snow-birds
As beggars to your door;
They pick up ev'ry tiny crumb,
With eager chirp for more.

Off to the land of icebergs, To islands cold and drear,
They fly before the summer comes
To frolic with us here.
Give them a hearty welcome,
It surely were not good
That they who sing in winter time
Should ever want for food.

Little Scotch Granite.

Burt and Johnnie Lee were delight. ed when their Scotch cousin came to live with them. He was little, but very bright and full of fun. He could tell curious things about his home in Scotland and his voyage across the ocean. He was as far advanced in his studies as they were, and the first day he went to school they thought him remarkably good. He wasted no time in play when he should have been

studying and he advanced finely.
At night, before the close of the school, the teacher calledthe roll and the boys began to answer, "Ten."
When Willie understood that he was to say ten, if he had not whispered during the day, he replied: "I have whispered." "More than once?" asked the teach-

er.
"Yes, sir," answered Willie. "As many as ten times?"
"Maybe I have," faltered Willie.

"Then I shall mark you zero," said the teacher, sternly; "and that is a great disgrace."

"Why, I did not see you whisper once," said Johnnie, that night after

"Well, I did," said Willie; "I saw others doing it, and so I asked to borrow a book; then I lent a slate pensil, and asked a boy for a knife, and did several such things. I supposed

it was allowed."

"Oh, we all do it," said Burt, reddening. "There isn't any sense in the

dening. "There isn't any sense in the old rule; and nobody could keep it—nobody does."

"I will, or else I will say I haven't," said Willie. "Do you suppose I would tell' ten lies in one heap?"

"Oh, we don't call them lies," muttered Johnnie. "There wouldn't be a credit among us at night if we were credit among us at night, if we were

so strict."
"What of that, if you told the truth?" laughed Willie, bravely.

In a short time the boys all saw how it was with him. He studied hard, played with all his might in play-time; but, according to his account, he lost more credits than any of the rest. After some weeks, the boys answered "Nine" and "Eight" oftener than they used to. Yet the schoolroom seemed to have grown quieter. Sometimes, when Willie Grant's mark was even lower than usual, the teacher would smile peculiarly, but said no more of disgrace. Willie never preached at them or told tales; but somehow, it made the boys ashamed of themselves, just the seeing that this sturdy, blue-eyed boy must tell the truth. It was putting the clean cloth by the half soiled one, you see; and they felt like cheats and story-tellers. They talked him all over, and loved him, if they did nickname him "Scotch Granite," he was so firm about a promise.

Well, at the end of the term, Willie's name was very low down on the credit list. When it was read he had hard work not to cry; for he was very sensitive and he had tried hard to be perfect. But the very last thing that day was a speech by the teacher, who fold of once seeing a man muffled up in a cloak. He was passing him with-out a look, when he was told the man was General -

as General —, the great hero.
"The signs of his rank were hidden but the hero was there just the same," said the teacher. "And now, boys, you will see what I mean when I give a little gold medal to the most faithful boy—the one really the most conscientiously 'perfect in his deportment' among you. Who shall have it?"

"Little Scotch Granite!" shouted

forty boys at once; for the child whose name was so "low" on the credit list had made truth noble in their eyes.— The British Evangelist.

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Business Opportunities for All.

Locations in Iowa, Illinois, Minnesota, and Missouri on the Chicago Great Western Railway; the very best agricultural section of the United States where farmers are prosperous and business men successful. We have a demand for competent men with the necessary capital for all branches of business. Some special opportunities for creamerymen and millers. Good locations for general merchandise, hardware, harness, hotels, banks, and stock-buyers. Correspondence solicited. Write for maps and Maple leafets. W. J. Reed, Industrial Agent, 604 Endicett Building, St. Paul, Minn.

The Rome Circle.

Conducted by Ruth Cowgill.

QUIVIRA.

Francisco Coronado rode forth will all his train.

Eight hundred savage bowmen, three hundred speares of Spain.

To seek the rumored glory that pathless deserts hold—

The city of Quivira, whose walls are rich with gold.

Oh, gay they rode with plumes on crest and gilded spur at heel.
With gonfalon of Aragon and banner of Castile!
While High Emprise and Joyous Youth, twin marshals of the throng,
Awoke Sonora's mountain peaks with trumpet note and song.

Beside that brilliant army, beloved of serf and lord,
There walked as brave a soldier as ever smote with sword;
Though naught of knightly harness his russet gown revealed—
The cross he bore as weapon, the missal was his shield.

But rugged oaths were changed to prayers and angry hearts grew tame, And fainting spirits waxed in faith where Fray Padilla came;
And brawny spearmen bowed their heads to kiss the helpful hand
Of him who spake the simple truth that brave men understand.

What pen may paint their daring—those doughty cavallers!
The cities of the Zuni were humbled by The cities of the Zuni were humbled by their spears. Wild Arizona's barrens grew pallid in of blades that won Granada and conquered Mexico.

They fared by lofty Acoma; their rallycall was blown
Where Colorado rushes down through
God-hewn walls of stone;
Still north and east, where deserts spread
and treeless prairies rolled,
A fairy city lured them on with pinnacles
of gold.

Through all their weary marches toward that filtting goal
They turned to Fray Padilla for aid of heart and soul.
He bound the wounds that lance thrust and fility arrow made;
He cheered the sick and falling—above the dead he prayed.

Two thousand miles of hardship behind their banners lay,
And sadly fever, drouth and toil had lessened their array,
When came a message fraught with hope to all the steadfast band—
"Good tidings from the northward, friends; Quivira lies at hand!"

How joyously they spurred them! How sadly drew the rein!
There shone no golden palace, there blazed no jeweled fane.
Rude tents of hide of Bison, dog-guarded, met their view—
A squalid Indian village, the lodges of the Sioux!

Then Coronado bowed his head. He spake unto his men:
"Our quest is vain, true hearts of Spain! Now ride we home again.
And would to God that I might give that phantom city's pride
In ransom for the gallant souls that here have sunk and died!"

Back, back to Compostela the wayworn handfull bore;
But sturdy Fray Padilla took up the quest once more.
His soul still longed for conquest, though not by lance and sword;
He burned to show the heathen the pathway to the Lord.

Again he trudged the flinty hills and daz-zling desert sands, And few were they that walked with him and weaponless their hands— But then the trusty man-at-arms, Docam-po, rode him near Like Greatheart guarding Christian's way through wastes of Doubt and Fear.

Where still in silk and harvests the prairie lilies toss.
Among the dark Quiviras Padilla reared his cross;
Within its sacred shadow the warriors of the Kaw
In wonder heard the Gospel of Love and Peace and Law.

They gloried in their brown-robed priest, and oft in twilight's gold
The warriors grouped, a silent ring to hear the tale he told,
While round the gentleman-at-arms their lithe-limbed childred played
And shot their arrows at his shield and rode his guarded blade.

When thrice the silver crescent has filled its curving shell
The Friar rose at dawning and spake his flock farewell:
"And if your brothers northward be cruel, as ye say,
My Master bids me seek them—and dare I answer 'Nay'?"

Again he strode the path of thorns, but
ere the evening star
A savage cohort swept the plain in paint
and plumes of war;
Then Fray Padilla spake to them whose
hearts were most his own—
"My cheldren, bear the tidings home—let
me die here alone."

He kneit upon the prairie, begirt by yelling Sloux—
"Forgive them, oh, my Father, they know not what they do!"
The twanging bow-strings answered, before his eyes unrolled
The city of Quivira, whose streets are paved with gold.
—Arthur Guiterman, in Out West.

[Late investigations have located Quivira in Kansas. It may have been a

string of Indian villages extending through Waubaunsee. Riley, Geary, Dickinson, Saline and McPherson Counties. Coronado's route was doubtless across or along the Arkansas valley. The Kansas State Historical Society is doing valuable work in definitely locating Quivira and tracing Coronada's route.—Editor.]

Within Her Bounds.

Many wounded men who wore the gray or blue in the late war will regray or blue in the late war will remember Mother P—, a nurse in a Pennsylvania hospital, noted for her always cheerful face and invincible good humor. One day the news of a terrible battle was brought to the hospital. The result was doubtful, and every one dreaded the worst. Physicians, nurses even servants neglected cians, nurses, even servants neglected their work all day, and talked in excited groups, or ran out to gather the last tidings. Mother P—went quietly to work as usual to scrub the floor of her ward.

"What do you think of the news?" she was asked by an agitated young

I think," said Mother P—, calm-"that I did not make this war, nor "I think," said Mother P. am I called upon to end it. But I am sent to mop the floor of this hospital."

The excited crowd understood the rebuke and quietly scattered to their

"First," said the old German max-im, "learn what you can not do. Then

do what you can."

Burns knew, for example, that he was no Shakespeare or Milton. When he borrowed the language, the measure, and methods of English poets, he was weak; but when, in his own mother tongue, he sang of the women and children who were dear to him, of the field-mice and the daisies that he saw under his feet as he ploughed, he struck a note which made his name as immortal as that of Scotland itself.

"A swarm of inferior young artists," says a recent critic, "copied the cloudy says a recent critic, "copied the cloudy tints of Corot, or the vague grandeurs of Turner, and thus voluntarily have extinguished themselves. Millet, in his own manner, painted the peasants and potato-fields about his home at Barbizon and the world was the gainer by a on, and the world was the gainer by a new and great pleasure."

It is not only among the authors, ar-tists, or leaders of the world, that men lose power by straining to do work that is too great for them. In every school the boys and girls with mediocre abilities are miserable because they can not rival those who take the high prizes. In every family and community, men and women are wretched because they can not reform great evils in the world, or because, with ordinary brains, they do not take high rank as authors, professional men, or politicians.

Happiness comes promptly to him who knows his own limits, and works faithfully within them. The reward was promised not to the woman who tried to do what she could not, but who did what she could.

who did what she could.

The man who returned from his journey called his servant to account not for the ten talents given to his brother servant, but for the single lit tle one tied up in his napkin. The hod-man will not be held responsible by the Great Architect for the design or for the lofty significance of the temple; but he will be honored or disgraced according as he has dealt well or ill with his little load of mortar .-

Nursery Manners.

Here is something for mothers to think of from the Youth's Companion: "Few mothers seem to realize what they owe their children in early life in the way of guarding them from unnecessary wear and tear upon their





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nerves. In these days we think so much of sunlight, fresh air, pure food and hygienic methods generally, that the least advanced of mothers must pay some heed to these matters.

This awakened modern conscience makes it all the stranger to find the rule of thumb and the slavery of custom still prevailing in so many families. The other day the writer was privileged to watch the toilet of a thoronchia oughly up-to-date baby. The nursery was a delightful, large, sunny room, scientifically ventilated and warmed. All the appointments were of the best, and both mother and nurse were well-informed. All went well till the moshirt. This garment was skin-tight and was stripped backward over the baby's head, rubbing all his tiny features the wrong way, ruffling his temer and causing him to protest vigorous and says constille human being would ly, as any sensible human being would. "The mother and nurse smiled and

"The mother and nurse smiled and said, 'He always hates that process.' The same thing was repeated when the nightshirt went on, only the baby's face was rubbed down instead of up. By this time the thoroughly outraged child yelled with anger. Think of the probable wear and tear to nerves and temper in this suppressery approvement. temper in this unnecessary annoyance repeated several times in the twentyfour hours.

"Then take the matter of hair. It was a sensible father who took his four-year-old son and had his curls cut close to his head, in spite of feminine protest. It is true that the little boy who came home was not so picturesque as the one who started for the barber's. When the mother remonstrated the father said, "Yesterday Willie cried at play because the other children pulled his hair. This morning he cried in the nursery because the nurse pulled his hair. He will need all the steadiness of nerve and control that we can help him to to be a man by and by, and it is our duty to stand between him and unnecessary friction.'

These are only hints of the ways in which children are bothered without reason. There ought to be a more imaginative insight on the part of the adults.

The Educated Woman.

FLORA D. REED.

We read, recently, a very pathetic article, by a troubled benedict, on the danger of the "higher education" of woman, disqualifying her for her preor-dained craft, that of wifehood and motherhood.

He seems to lose sight of the true meaning of education, making it unfitting rather than a preparation for her life-work. He makes a distinction between the practical and the educated woman, where no distinction lies. True, the uneducated may be practical so far as their limited intellect will permit, but education should com-bine with the practical, the ideal, and theoretical. It does ideal, and theoretical. It does not mean merely the completion of a course of study in some college or university. Simply acquired knowledge without the ability to make practical use of it it not education in a broad sense of the word, certainly not "higher education."

A diploma is not prima facie evi-ence of a thorough fitting for one's life-work any more than a marriage certificate is certain proof of a happy home. A mere smattering of a lot of things and mastery of none is not education. Some of our most brilliant men, and women too, are among those who never entered a college or uni-

versity as a student. Education that does not enable us to make a good living, to make it with less expense of labor and care! that does not give us a keener insight into political and social problems; that does not open our eyes to a wider and more comprehensive sense of the good and the beautiful, an ability to extract truth and wisdom from nature, art, and science, and apply it to everyday life, falls far short of the true definition of the term. Education is in spiring, it is cumulative and ends only with life. A college education is only the primer that fits us for commence-

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ment which, as the word implies, is a beginning of a life of study. It enables us to adapt, to assimilate, it opens to our vision worlds of thought that are entirely hidden to the uneducated, it fits us for doing whatsoever falls to our lot cheerfully and well. It is the most absurd nonsense to state that its tendency is to lure woman from the home into the dangerous occupations of the city. This may, probably does, apply to the superficially educated, but not to her whose watchword is prog-

The educated housewife makes love and sagacity supply many deficiencies. She complains not of the narrowness and monotony of her environments, she has the ability within herself to rise above them. The most arduous household duties are not irksome, behousehold duties are not irksome, be-cause she combines skill with labor, making her strength, be it little or great, doubly effective, while she joy-ously quotes from Emerson, "Drudg-ery, calamity, exasperation and want are instructive in eloquence and wis-dom"."

Education not only enables woman to make the most of her surroundings but it brings into her home a cheerfulness, contentment, a strength and resourcefulness, self-poise, reliance, dis-dain of conventionalities, ability to comprehend, to appreciate, to appropriate. There is scarcely a limit to the possibilities for good, that education has for women especially those of moderate means. It unites brain and brawn, enabling her to make one sten do the work of two week half. step do the work of two, yea, half a dozen. She does not claim that there is any higher calling than her own craft, but realizes that the mother is the first and greatest factor in the education of her children, hence none needs a more thorough, broad-minded or varied education. She hears the Spartan mother's admonition to her son to lengthen his sword by taking a step forward. She has taken that step and still another, and her sword —the power of education—is growing in length and efficiency, and the doubting Thomases will have to seek shelter in silence.

That type of womanhood which calls for publicity, which makes her voice heard in loud clamorings for recognition, is boistrous in her denunciation of those who oppose her march into the fields of labor, designated by na-ture for man, is not the representative woman, but an abnormal growth which will end in its own destruction, and tends only by contrast to exemplify the truly educated, refined and cultured woman.

Our Weekly Recipes,

ESCALLOPED VEGETABLES.

Potatoes.—Peal some half dozen Irish potatoes and then stand in cold water for some time, to make them crisp and mealy. Then, having buttered a granite pan, cover the bottom with slices of the potatoes. Sprinkle over them a little flour, season with salt, pepper, and butter, and then add sliced potatoes again, and so on, with alternate layers of potato and flour and seasoning, until the pan is quite full. Pour over it enough milk to cover, and bake for about forty-five min-

Cabbage.—Into a buttered, round, granite pan put crackers broken into small pieces (not crumbled). Upon these put cabbage which also has been broken into pieces. Season, and continue with alternate layers, covering with milk as in escalloped potatoes. Bread-crumbs may be used instead of crackers, though they are not so good.

Canned corn, tomatoes, salsify, and many other vegetables are delicious cooked in this way.

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Miscellany.

Barren Stalks in Corn.

EDITOR KANSAS FARMER:—The question of barren stalks in corn-fields is becoming quite an important one for farmers to consider. It goes without saying that all space occupied by stalks that bear no ears is as good as wasted. In an address on "Corn Culture and Breeding," delivered at the thirty-first annual meeting of the Kansas State Board of Agriculture last winter, Mr. A. D. Shamel, instructor in field-crops at the Illinois Agricultural College and Experiment Station, made the following statement:

"By careful counts made in various counties in Illinois for the last three years it was found by the farmers that almost one-third of the stalks in the field were barren. These barren stalks are weeds, of little or no value to the farmers. They probably take nearly as much fertility from the soil as the stalks bearing ears, and they cost as much to grow as the fertile stalks. Of the 137 farms of the Sibley Estate, Ford County, Ill., it was found that nearly 30 per cent of the stalks were barren. On this estate especial attention has been given to seed selection, and the probabilities are, that the corn on these farms is more free from this condition than on the average farm.

If Mr. Shamel's statement holds good generally, the situation with regard to corn certainly gives cause for concern. It would seem reasonable to suppose, however, that if it were true generally that one-third of the crop in our corn-fields bore no ears, attention would have been directed to this fact sooner. With a view to ascertaining something with regard to the conof local corn-fields with respect ren stalks, a good average field of corn about two miles west of the Agricultural College, in very vigorous condition, was selected last summer for experiment. The field was planted to a yellow dent corn, unselected and without pedigree. On July 19, 1902, all of the stalks in five acres were counted. In making this count only healthy plants and plants pysio-logically capable of bearing ears, were included. Suckers were not counted. The results were as follows:

THE TESUIES. WELL AS IOIIOMS.	
1	No. of
- S	talks.
First acres	. 6.447
Second acre	6.396
Third acre	6.407
Fourth acre	6.176
Fifth acre	7 515
	,020
Total	.32,941
On September 2, after all pos	sible

ears had matured, the barren stalks were counted with the following re-

sults:	33.017	(0)3337		
				No. of stalks.
First	acre		 	3
Second	acre			8
Third	acre			15
Fount!	acre		 	
Fourti	i acre		 ********	
Fifth	acre		 	21
				-
Total	1.1		 1000000000	57

So that out of a total of 32,941 independent plants on five acres, all of which were healthy, normal ones, only 57, or two-tenths of one per cent were barren. This does not seem to agee very well with Mr. Shamel's figures. There is no question, however, that the abundant moisture of this year, which favored the maximum development of corn-plants in this locality, has been a very important factor in bringing about a diminution in the number of barren stalks. The point which I wish to emphasize and which it seems to me this experiment serves to illustrate, is that barrenness in corn-talks is rather a physiological matter depending upon the vigor of growth of the plant in the particular season, and that it is not perhaps a factor which can be as greatly influenced by selective breeding as has been urged. In this connection I desire to quote from a letter dated September 27, 1902, from Dr. C. J. Hopkins, professor of agronomy and chemistry at the Agricultural Experiment Stattion of Illinois, who has charge of the work in corn-breeding there. He says:

"Regarding the matter of barren stalks, I may say that our observa-tions show this to be an exceedingly variable factor in corn-growing. It seems to vary principally with the supply of moisture. Last season, it is true, that the percentage of barren stalks was frequently found to be as high as 30 or 40 per cent, while this year the percentage is frequently less than 1 per cent. In my judgment, the proper method of determining the percentage of barren stalks is to divide the total number of independent barren stalks by the total number of in-



dependent corn-plants, disregarding the suckers."

This was precisely the method followed in our experiment. That the enormously large percentage of so-called barren stalks in the Illinois corn-fields, may perhaps be the result in some cases of including "suckers" in the count, may be inferred from the following statement in Circular No. 57 of the Illinois Experiment Station, published June, 1902, by Mr. Shamel.

"In former tests there has been some irregulaity due to a misunder-standing as to what constitutes a barren stalk. A barren stalk is an independent plant produced from a kernel of corn but which does not bear an ear of corn. A stalk branching off from another stalk either above or below the ground, is a sucker; a distinction should be bade between 'barren stalk' and 'sucker' in order that exact information be obtained."

In view of the evidence it seems a little premature to make very much capital out of the supposed reduction of barren stalks as brought about by selective breeding, since the corn at the Illinois Experiment Station quoted by Dr. Hopkins and in which the number of barren stalks has varied from season to season from 1 to 40 per cent, was, it may safely be assumed, purepedigreed corn, as was the corn on the Sibley estate quoted by Mr. Shamel. On the other hand the "scrub corn" in the Kansas field examined by us and in which no effort has ever been made to eliminate the barren stalks from year to year, had this year so small a number of barren stalks as to cut no figure whatever in the pro-luctivity of the field.

The real thing necessary to discover is whether in dry years, corn which has been worked upon with a view to eliminating barren stalks, shows any advance over corn in which no attempt at improvement in this regard has been made. It certainly appears at present that all the labor spent in eliminating barren stalks fom experimental fields has not been well applied. If, say, thirty kernels of corn out of a hundred will, in a dry year, send up stalks which bear no ears, and if, on the other hand, as appears to be the case in both Illinois and Kantwenty-nine out of those thirty are likely, in a year of sufficient moisture, to produce fertile stalks, selective breeding to eliminate barrenness would seem to be time th and the theory suggested that the tassels on such barren stalks produce pollen which tends to breed up a barren race of corn in the ears it fertilizes, is a gratuitous assumption as devoid of foundation in theory as it is of demonstration by experiment.

A great deal more has to be done in determining the relative number of fertile to barren stalks in dry and moist years both in selected and unselected corn, before any conclusion can be drawn. H. F. ROBERTS.

Botanist Kansas Experiment Station.

Recipes for Curing Meat.

EDITOR KANSAS FARMER: -As you invited your reades to send tried recipes for curing meat, I will send a couple that have proved a success with us. For pork: When the meat is cold enough, salt with common salt, and let it be for a few days until all the blood is drawn out of the meat. For each

100 pounds of pork, take four pounds of salt, and two pounds of sugar. Mix thoroughly. Divide in three equal parts. Rub the first third on the meat. Pack in a barrel three days, then take it out and rub the second part on the meat. Repeat this every three days for nine days. Then hang it up and let it dry.

For beef: Cut the beef in pieces suitable for cooking, then pack it in a tight barrel, as tight as possible. It tight barrel, as tight as possible. It is well to pound down each layer as solid as possible. When all is packed in the barrel, take fresh water from the well, and add salt until it will float an egg. For each 100 pounds of beef, add one pound of sugar. Then pour the brine over the beef. Don't forget to weight it down so that the beef will not float. Keep it in a cool place and it will keep until spring if place and it will keep until spring, if

you do not eat it before that time.

If one has two barrels it will be more convenient. If only one barrel is used, be caeful to put what was on the top on the bottom the second time, reversing the order each time. It will have to be kept in the cellar, or some other place where it will not freeze

while you are curing it.

We have tried this plan for a few years, and find the hams and shoulders are salt enough to keep all the season and not too salt to be palatable.
D. M. ADAMS.

Rome, Sumner County, Kans.

Needed Legislation.

EDITOR KANSAS FARMER: -Some agricultural papers, during the session of their legislature, invite suggestions on needed legislation, and have their readers write to them. I have not seen such a department in the Kansas Farmer, but suppose that you would use your influence to get bills passed that will benefit the former. that will benefit the farmer. I will give a few that we need:

1st. The time of our school meeting

should be changed. It is now held the last Thursday in July. At that time in Sumner County there is often from one to three threshing machines running in each district, so that it is almot impossible for farmers to attend the school-meeting. If it could be held in winter it would suit the voters better. It should not be held later than 10th of June for this section of the

2d. The width of the roads should be cut down to about forty feet. Here the roads are about sixty six feet, and not over forty feet are used. This leaves a strip along each side of the road that grows up in sunflowers, or has to be mowed a couple of times to keep them down. These strips are worse than useless.

3d. The telephone poles are set in the road, so that they are in the way of the mowing machines, making extra work for the farmers to keep down the weeds. There should be an act to compel companies that place poles or other obstructions in the public roads to keep the weeds down on their side of the road. The farmer get no benefit from these through lines. They have no instruments in the country. If we wish to use them we have to go to town to do it. D. M. ADAMS. Rome, Sumner County, Kansas.

Kill the Wolves.

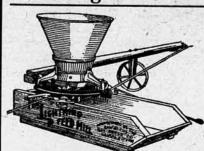
Editor Kansas Farmer:-In a late number of the Kansas Farmer are letters from Mr. Lantz and Mr. Bohrer in regard to more stringent legislation to protect the game-birds of Kansas. Being an old sportsman and an en-

thusiastic lover of the teathered creation, as well as a farmer, I am satis-fled that no game-laws will ever increase the prairie-chickens and other game-birds unless severe means are devised to rid the State of prairie wolves. One pair of wolves will destroy more game than all the hunters When I came to Coffey County eight years ago there were a few prairie-chickens. There has been no increase. Some have been shot. Quails are practically extinct.

In traveling over the large pastures you come across a nest full of chickeneggs-perhaps nearly hatched. looking closely you find the feathers of the old hen, who has been killed by the wolves.

Not only do they catch the old hen on her nest but if she hatches her brood, and a wolf comes across her scent, the old one is pounced upon be-fore she can fly out of the grass, and every young chicken is scented out and devoured; not one escapes. This applies to all kinds of birds that nest on the ground. Not only are our birds destroyed, but turkeys, chickens, geese, and young pigs are all killed by these useless brutes. My losses have averaged \$10 a year for the last thirty years. We have lost \$50 worth of pigs

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and poultry in this way this fall and winter. It seems impossible to either trap or poison wolves to any extent. Dogs are worthless as a preventive. I have had many kinds of dogs, but never one that would touch a prairie-wolf. If there are dogs that will run them down and kill them they can get a job in this county, and we will try and make it interesting from a financial standpoint.

Each county in the State should pay a bounty of at least \$5, and the State one of \$3 or more, and try and rid the State of these nuisances. No game-laws will be any good as long as we are letting the wolves have the right A. G. SKINNER. of way.

Aliceville, Coffey County.

Alfalfa Cut with a Binder.

EDITO KANSAS FARMER:-I see in your number of January 15 an article on alfalfa from collection No. 114 of the experiment station, H. M. Cottrell. I see that different modes of curing are described, and for the benefit of the readers of your paper, I will give my way of curing alfalfa. I use neithmower nor mulch-rake, but a Mc-Cormick self-rake. It can be set to cut low enough and rake the feed off the stubble, a good forkful at a time. I leave it lay until it is perfectly cured and the danger of heating is past. Then load a header-box, and haul it to stack or barn. In this way not a leaf is lost, the color and flavor are preserved, and not even rain seems to hurt it much, if unfavorable weather should set in after cutting. Of course the soil ought to be dry and the alfalfa, too, when cut. I am using the fourth machine (self-rake) after dis-carding mowers ten years ago, and have cut all kinds of fodder, also millet and prairie-grass the same way. Everything has a better color and fla-There is less waste in quality as well as in quantity and the meadow is greatly improved if it is not scratched over with the teeth of the mulch-rake, thus robbing the ground of the old mulch, which, in a dry year, will pre-serve the moisture of the soil and help the next crop, if left on the ground. When raked up it only makes the hay dusty, and the ground a good bed for all kinds of weed seeds which our Kansas zeyphyr will blow in from adjoining fields. Now I find that even with such rains as we had last summer, my hay, fodder, millet, and alfalfa did not suffer much when cut with a self-rake and advise my fellow farmers to give it a trial. Conrad Kruger. Pfeifer, Ellis County.

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Tubular Separator

In the Dairy.

Conducted by Ed. H. Webster, Professor of Dairy Husbandry, Kansas Experiment Station, Man-hattan. Kans., to whom all correspondence with his department should be addressed.

Dairy Day at the Improved Stock-Breeders' Association Meeting.

The Kansas Improved Stock-Breed-Association introduced a very attractive feature in the program by giv-ing one session of their meeting to the ing one session of their meeting to the dairy interests of the State. Very excellent papers were read by Mr. T. A. Borman, secretary of Kansas Dairy Association, Ar. W. F. Jensen, manager of the Continental Creamery Co., and Mr. W. W. Marple, president of the Missouri State Dairy Association. No little interest was manifested in the program of the evening, but owing to the reception to the new Governor at the State-house all discussion of these papers was cut off in order to adjourn to the State-house. This was an un-favorable circumstance as far as the

program of the evening was concerned.

It was very noticeable the next day that many were loaded for dairy distance that the state of t cussion both for and against. It seemed to be the prevailing opinion that dairying was a paying business, a legitimate business, and a honest business. That a man who was built that way had better go into it for all it was worth, breed dairy cows and get the best obtainable. One speaker, more full of prejudice than knowledge on the subject, tried to make the members of the association believe that they never averaged more than 10 cents per pound for butter. He was promptly called down by a large number who could show differently. As a matter of fact butter has been double that mark for the past sixteen months for all who would patronise a first-class creamery.

This session of the association was productive of much good-as many were impressed as never before with the magnitude of the business and its commercial importance to Kansas.

Try as some did to get around the dairy proposition, there was hardly a discussion, be it on sheep, hogs or horses, but it lead into a speech on some phase of dairying. It seems that dairying was the uppermost question in the minds of many attending. So may it remain, for it is one of the best industries of Kansas to-day. E. H. W.

State Aid to Dairying.

For the year just closed, 1902, the report issued by the dairy division, Department of Agriculture, shows that there were twenty-one States in which dairying was recognized by the creation of State departments of dairying. These offices are usually combined with that of food commissioner, and the designation in fourteen States is dairy and food commissioner. In the other seven the office is simply called dairy commissioner.

In nearly every instance where the office of dairy commissioner and food commissioner is combined the work done for dairying is purely that of in-spection for adulterations of dairy products. In a few states there are deputy commissioners appointed who have duties more in line of instructors in creamery and cheese-factory work, with police powers in a few cases, to enforce certain sanitary and other regulations. In the majority of cases the commissioner is in no way responsible





through his office to foster or build up

the dairy industry of his State.
In some States where dairying is an important industry there is a move-ment to separate the office of dairy commissioner from that of the food inspector. The result of the combination is usually such that the dairy interests are of minor importance. In States where this combination does not exist, the officer has time and means to materially aid the interests of dairying. The writer outlined two or three weeks ago something of what the duties of a dairy commissioner for Kansas might be, and how he could aid the farmer, the creamery man, and the cheese man in the work of building up a profitable and substantial industry in our State. Should such an office be created we urge that it be a dairy commissioner rather than a foed commissioner with a

dairy attachment.

Another interesting thing gathered from this pamphlet of the dairy division is the State aid given to dairy associations. Sixteen States give legislations appropriations reading from lative appropriations ranging from \$4,000 per year down to \$25 per year to the various State associations. In some of these the only aid given to the work is in printing and distribut-ing the proceedings free. All the principle dairy States give a liberal appro-priation for carrying on the work through the State dairy associations. Twenty-eight States have dairymens' associations; two of this number have three separate organiations, five have two organizations. There are five associations which have jurisdiction over more than one State, three of these are National in their scope.

Forty-one States give aid to the dairymen by establishing dairy schools and giving instruction in dairying in some form every year at the agricultural colleges.

These various methods of aiding in this industry meet different needs of the people. Kansas has come to the front with a fairly well equipped dairy school. The State is however in a fair way to lose the investment in the building where the school is located as construction is so poor for the pur-poses required that the repairs in another year will cost more than a new addition built suitable for creamery and dairy work would cost if built at It is a matter of economy to place the dairy school in new quarters at once. Aside from this beginning at the agricultural college the State has done nothing to aid one of the greatest industries within its borders. The State Dairy Association has to meet all its own expenses and nothing in the way of dairy laws and provisions for dairy commissiner is on the statute books of Kansas.

After noting the tendencies of some of the older dairy States, Kansas might profit by this experience and establish a dairy department which would be of great value to the State. The small amount it would cost would be returned every year with compound interest in increased business and actual money returns to our farmers. As a suggestion the writer would present the following: That the State legislature this winter be asked to make a liberal appropriation for the dairy in-terests of Kansas; that the State Dairy Association be rejuvenated and placed on a par with the State Board of Agriculture, and that the secretary of this organization hold a relation to it similar to that held by the secretary of the State Board of Agriculture

This, at one stroke, would place the Dairy Association on a permanent basis and give such a department of the State the means and power to do for dairying what the State Board of Agriculture has been enabled to do for general agriculture, of what the Horticultural Society does for the horticultural interests of Kansas.

Dairymen can aid their own cause by urging this or similar legislature this winter.

Need of the Dairy Industry.

E. K. Slater, in Fairmont News, says: The best is always in the greatest demand. The best butter-makers are always busy at high salaries, and the best butter is always selling at a high premium and the demand was never satisfied. I wish it were possible for me to truthfully add that the best cows are in greatest demand in the dairies of the country, but alas and alack such is not the case. According to the annual report of our dairy and food departments among the dairying States the difference between what the average cow produces in a year and what a good cow can easily produce is a sufficient cause for exclamation by those interested in the welfare of the industry. The whole blame must not, however, be laid at the door of breed or

type of cow now predominating. It has been proven that the common cow with proper treatment, i. e., balanced ra-tions, comfortable quarters, regularity in time of feeding and milking, etc., will double the amount of milk she would produce under such conditions as exist in too many dairies throughout the country. Deductions are easily made, therefore, but in such case who is going to be blamed, the cow or her keeper? Good care of better stock is the crying need of the dairy industry.

In the Right Direction.

It is with satisfaction that we note the general tendency of the dairy com-missions in various States to devete a considerable part of the time of the in-spector to educational work among dairymen, creamery men and cheesefactory men.

Minnesota is asking for five, and Michigan for two inspectors who shall be instructors.

It might be objected that such educational work would be more suitable placed under the jurisdiction of the dairy-schools, but it must be remem bered that if the instructor is also an inspector he has the needed police power to enforce improvements where his advice is not needed, thus making his work more effective.

And we might add that it is not only in the dairy line that such educational work can be made profitable by the

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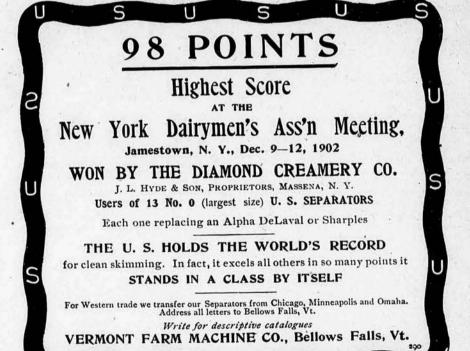
commissioners, but also in other food lines among the small retailers and consumers.—New York Produce Re-

74 CORTLANDI S

Trying to farm without a farm paper is like trying to sharpen a lead pencil with a pair of scissors. See our "Blocks of Two" proposition.

You can find out something you ought to know by writing to the

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THE POLAND-CHINA MERGER.

(Continued from page 113. fice management and the local crowd at Maryville, who have sent out a cir-cular intimating that the proposed consolidation is simply a pretise to help the Kansas City show, and doubtless have secured a great many proxies, consequently it is important that those who favor consolidation should either be present or send their proxies to such members as they know favor it. Any member of this association who has sent his proxy without instructions can revoke the same and make another proxy. Kansas members should send to H. W. Cheney, secretary of the Kansas Swine-Breeders' Association, North Topeka, Kans., H. M. Kirkpat-rick, 1031 Central Street, Kansas City, Mo., Frank D. Winn, Mastin, Kans., or C. T. Deitrich, Richmond, Kans.
The following editorial from the Breeders' Gazette of last week is very

much to the point:

"Poland-China breeders have opportunity at hand to effect a consolidation of the several pedigree register associations for this breed of swine. The National merger committee has can-vassed the subject thoroughly, taken vassed the subject thoroughly, taken legal advice and had prepared a feasible plan of consolidation which only awaits the endorsement of the various record associations at their coming meetings. The merger committee has certainly done excellent work in formulating a plan by which union may be promptly effected. Immediate action must be taken unless another year is must be taken unless another year is to drag along without results. It seems incredible that the leaders in this great trade should neglect this opportunity to effect a consummation that commends itself to the judgment of every well-posted, fair-minded man. The desirability of a consolidation of the five Poland-China records long since passed beyond the realm of arguthe five Poland-China records long since passed beyond the realm of argument. Hesitation should not mark the action of business men in such an emergency. The opportunity is now presented to take a step forward that will tell appreciably for the breed in public estimate. There is just about as much need of five records for the pedigrees of Poland-Chinas as there is need of five tails to a pig. Nothing can defeat this proposed consolidation or defeat this proposed consolidation except selfish considerations. If the leaders in the trade will submit to be ruled to their detriment by such considerations, we have erred greatly in our estimates. timate of their characters. A consolidation of Poland-China records, a union of the forces of breeders of this American-molded race of swine, are demanded by the best interests of the industry. The way is open."

WHY IS COAL SCARCE?

The Kansas Legislature has a committee at work trying to ascertain the cause of the present coal situation in this State. It has been charged that a

this State. It has been charged that a conspiracy, or trust, is limiting production at the mines for the purpose of forcing higher prices. The higher prices prevail sure enough. Coal that formerly sold at \$3 per ton in Topeka now commands \$4.50 and is hard to get.

Let us see whether the combine can make money by limiting production and taking this advance in price. Possibly it costs more to mine coal now than formerly. This difference is probably less than 50 cents a ton but let us call it 50 cents. If at the old price the profit was 50 cents a ton, we price the profit was 50 cents a ton, we should then have old price, \$3; cost, \$2.50; profit, 50 cents. New price, \$4.50; cost, \$3; profit, \$1.50.

In the absence of legal restraint, is

it any wonder that the supply is slightly limited so as to multiply the profits by three? Trusts may be able to be useful to society, but they are also able to be oppressive. Must the people sub-mit to this kind of extortion?

A FARMER GOVERNOR.

The KANSAS FARMER has, for the last two weeks, been so crowded with the matters peculiar to its special editions containing respectively the proceedings of the State Horticultural Society and the Improved Stock-Breeders' Association that there was no space for comment on passing events.

An event in which all farmers are interested is the installation of a genuine farmer in the office of Governor

When W. J. Bailey, of Nemaha County, was proposed as a candidate for the nomination of his party for chief executive of Kansas, there were heard none of the old time sneers about the "hay-True some thought the other strong men in the field would leave lit-tle chance for the Nemaha County farmer, but his candidacy was taken seriously from the beginning. His nomination and election followed. During the last weeks of the campaign he forTHE KANSAS FARMER.

1 st

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AFTER

Specially strong features in business stories, and business special articles for young men, by all the leading Bankers, Lawyers, Merchants and Jour-Special contributors are Senator nalists. Beveridge, Hon. Grover Cleveland, William Allen White, Hon. Charles Emory Smith, former Postmaster-General, and hundreds of others.

The Curtis Publishing Company Philadelphia, Pa.

sook the political field and attended at the bedside of the last illness of his

His inaugural address and his message to the legislature were full of the robust vigor of the robust farmer and, withal, were well received by the critics. They evince his interest in the fundamental industry of Kansas, and disclose a breadth of view which does not evided. not overlook or underestimate any industry or interest in the State.

Farmers who find it convenient on coming to Topeka to call on the Governor may expect a great, big farmer hand-shake extended with a cour-tesy none the worse because some peo-ple may call it "a little old-fashioned."

CLEAN AND CONVENIENT.

Aside from the great convenience of the proposed post-check currency there is the advantage that new, clean bills will be issued to take the place of those used as checks, thereby keeping the currency in presentable and sanitary

The plan is to have the government bills so printed that there are blank spaces which could be filled out like a check. When not filled they pass current as money just as they do now, but when filled out to pay a small bill, say at some distant point, they must be en-dorsed by the receiver, and cashed at the postoffice. After that the bill is worthless as currency. The only expense would be a two-cent postage stamp for government fee on the face of the bill when it was converted into a check.

It is calculated that this system would prevent a great deal of the present inconvenience which people find who wish to pay a small bill, say a sub-scription for a paper or a magazine, when such bill has to be sent by mail, and of course everybody knows there is a certain risk in sending ordinary money through the mails.

THE NEBRASKA AGRICULTURAL MEETINGS.

Perhaps the capital city of our sister State on the north was never so thronged with visitors or was the meet-ing place of so many associations as during the past week. The agricultu-ral associations of various kinds who held their meetings at this time included the State Board of Agriculture, State Swine-Breeders' Association, Improved Live Stock Breeders' Association, Nebraska Dairymen's Association, Nebraska Veterinary Medical Association, Duroc-Jersey Breeders, the Association of Agricultural Students, the State Farmers' Institute, Nebraska State Poultry Association, Central Shorthorn Breeders' Association, Corn-Judging Parliament, Nebraska Corn-Improvers' Association, Bee-Keepers' Association, Nebraska Irrigation Association, Nebraska Stock-Growers' Associa-tion. In addition to these meetings there was held a lumber dealers' association meeting, a State Firemen's Association, a great meeting called for the organization of the Farmers' Co-operative Grain Company, a farewell reception to Minister Thompson, prior to his starting to his new field of use-fulness as the United States representative to Brazil, and in addition to all these, the regular meeting of the State Legislature. Our limited space this

week will not admit of a comprehensive report of these meetings but we shall publish from time to time a num-ber of the best papers that were pre-sented before the various associations. We were particularly gratified with the large attendance upon the meetings of the Central Shorthorn Breeders' Association and the excellent quality of the

papers given there.

The officers elected to serve during The omcers elected to serve during the coming year are: President, T. J. Wornall; first vice-president, George E. Ward; second vice-president, L. C. Lawson; secretary, B. O. Cowan; treasurer, R. H. Clay. These also constitute the executive board of the association.

ciation.
The State Dairy Association officers were elected as follows: President, J. K. Honeywell, Lincoln; vice-president, J. S. Clark, Ravenna; secretary and treasurer, S. C. Bassett, Gibbon; directors, B. R. Stoufer, South Omaha; W. F. Ulrich, Princeton; J. C. Merrill, Sutton; L. D. Stilson, York; A. L. Haecker, Lincoln.

The officers and members of the neworganized Nebraska Shorthorn Breeders' Association are as follows: L. C. Lawson, president; L. J. Hitchcock, vice-president; A. B. Heath, secretary; W. G. Sadler ,treasurer. After a lively discussion a motion was finally carried making Lincoln the place for the next meeting, the time to be in January along with the other associa-

The members who enrolled Thursday are: A. Johnson, Douglas; I. W. Chappell, Kearney; E. I. Hays, Braden; W. G. Sadler, Jamaica; L. D. Hitchcock, Rudolph Firme, G. T. Haggard, John Skinner, C. G. Wootz, A. B. Heath, Thomas Andrews, Thomas Andrews, Thomas Andrews, jr., C. E. Lawson, J. P. Griffith, Grant; Chris Grosshans, Sutton; C. A. Ritchie, Ulysses; John Harper, Bennet; D. P. Turney, Ceresco; W. R. Holt, Falls City; W. C. Cameron, Herman; John Anderson, Chambers; H. M. Hart, North Platte; Frank Ness, Surprise; H. G. Lawson, Clarke; F. A. Heath, Republican; John Drapela, Stanton; A. E. Walden, W. T. Judy, Kearney; C. B. Bowen, Odessa; J. E. Donaldson, Albion; O. P. Hendershot, Hebron; Ernest Bros., Graff; Z. S. Branson, Lincoln; J. Webber, Tecumseh; L. K. Kilburn, Petersburg.

The Poultry Association officers elect are: T. L. Norval, Seward, president; E. B. Day, North Bend, vice president; L. P. Ludden, Lincoln, secretary; I. L. Lyman, Lincoln, treasurer; David Larson, Wahoo, C. Rockhill, Harvard; A. Irving, Tecumseh; C. M. Liewellen, Beaver City, and E. E. Smith, Lincoln, board of managers.

The State Irrigation Association held a most successful meetings. Their officers and directors were chosen as follows: President, A. G. Wolfenbarger, Lincoln; vice-president, W. H. Wright, Scotts Bluffs County; secretary, H. O. Smith, Lexington; treasurer, W. H. Manning, Crawford. Executive committee, J. S. Hoagland, North Platte, O. G. Crews, Culbertson, H. E. Lewis, Lincoln, and Judge F. G. Hamer, Kearney. The Nebraska Corn-Improvers held their annual meeting at the university. They elected the following officers for

The Nebraska Corn-Improvers held The Nebraska Corn-Improvers held their annual meeting at the university. They elected the following officers for the coming year: Lee Smith, De Soto, president; William Ernst, Graf, first vice-president; D. F. Stouffer, Bellevue, second vice-president; Joseph Hall, Tekamah, third vice-president; H. J. McLauchlin, Doniphan; fourth Hall, Tekaman, third vice-president;
H. J. McLauchlin, Doniphan; fourth
vice-president; Y. S. Cobledick, Alma,
fifth vice-president; T. W. DeLong,
Ainsworth, sixth vice-president; and
T. L. Lyon, Lincoln, secretary-treas-

The Nebraska Improved Stock-Breeders' Association have selected the following officers for the ensuing year:
William Ernst, Graff, president; E. Z.
Russell, Herman, secretary and treasurer; vice-presidents, Sam McKelvey,
Fairfield, for the swine-breeders; T. A.
Glesons, Arlington, for the horsemen; Gierens, Arlington, for the horsemen; O. P. Hendershot, Hebron, for the cat-tlemen; T. L. Norval, Seward, for the poultry-raisers.

KANSAS FARMER'S NEW WALL ATLAS.

The Kansas Farmer has arranged The Kansas Farmer has arranged with the leading publisher of maps and atlases to prepare especially for us a New Wall Atlas, showing colored reference maps of Kansas, Oklahoma, Indian Territory, the United States, and the world, with the census of 1900. The size of the New Wall Atlas is 22 by 28 inches and it is decorated on the outer cover with a handsome on the outer cover with a handsome design composed of the flags of all

nations.

Tables showing products of the United States and the world, with their values, the growth of our country for the last three decades, and a complete map of the greater United States are given. This is an excellent educational work and should be in every home. The retail price of this New Wall Atlas is \$1.

Every one of our old subscribers

New Wall Atlas is \$1.

Every one of our old subscribers who will send us \$1 for two new trial subscriptions for one year will receive as a present a copy of this splendid New Wall Atlas postpaid, free.

Any one not now a subscriber who will send us 50 cents at once will receive the Kangas Farmer for five

ceive the Kansas Farmer for five months and will be given a copy of our new Wall Atlas free and postpaid.

POLLED JERSEY CATTLE COM-PANY.

The annual meeting of the American Polled Jersey Cattle held at Cedarville, Ohio, Wednesday, January 21, 1903. The reports of the secretary and treasurer and of the breeders present, show that the last year has been the most prosperous since the organization of the company. The officers for the ensuing year are as follows:

N. H. Coe, president, Cedarville, Ohio; vice-president, A. T. Mohr, R. R. 4, Springfied, Ohio; treasurer, J. S. Brown, Cedarville, Ohio.

Members of the board of directors to serve for three years, J. S. Brown, Cedarvile, Ohio, and Orrie Walter, Labanon, Ohio, A. T. Mohr was appointed to arrange with the officials of the Louisiana Purchase Exposition for an oxidity of Polled Lorroys, at St. an exhibit of Polled Jerseys at St. Louis in 1903.

For a catalogue of new and improved varieties of seed-grain, corn, potatoes and other seeds suitable for the farm, write to The Farmer Seed Co., 16 4th Street, Faribault, Minn.

Special Rates for Temperance Conven-

At the time of the annual convention of the State Temperance Union next month the railroads will charge only a fare and a third for the round trip to Topeka and return from any point in Kansas, and from St. Joseph and Kansas City, Mo. Tickets are good from February 10 to 12, the convention dates being the 10th and 11th.

being the 10th and 11th.

Every church, Sunday school, young people's society, and temperance organization is entitled to be represented in the convention by three delegates. The presence of all others, however, it ungently desired.

gates. The presence of an others, however, is urgently desired.

The officers of the State Temperance Union have in preparation a rich, helpful, and interesting program. Among the strong and brainy men and women who are expected to participate in the discussions of the convenpate in the discussions of the convention are F. D. Coburn, secretary of the State Board of Agriculture and presi-State Board of Agriculture and president of the union; Chancellor Frank Strong, State University, Lawrence; Mrs. E. P. Hutchinson, president Kansas W. C. T. U., Hutchinson; Rev. J. T. McFarland, Topeka; Rev. C. S. Nusbaum, Ottawa; Rev. Granville Lowther, Winfield; Mrs. McVean-Adams, National W. C. T. U. lecturer, Mound City. President Norman Plass. Wash-City; President Norman Plass, Wash-City; President Norman Plass, Washburn College, Topeka; President E. Stanley, Friends' University, Wichita; Dr. G. A. Grise, Manhattan; Ex-Superintendent Frank Nelson, Lindsborg; Hon. J. W. Dunn, Onaga; General J. K. Hudson, Topeka; and Rev. Mary Sibbit Hutchingon bitt, Hutchinson.

Among the important subjects to be treated at this convention are two burning ones, the cultivation of a wholesome public sentiment, and the securing of faithful officers who will enforce the prohibitory law.

Gossip About Stock.

Gossip About Stock.

(Continued from page 119.)

thirty-five head from his fine herd. One of the animals offered in this sale which attracts particular attention is No. 42 in the catalogue. This is Nini 16104 by Aksarben Jr. 6383 A. out of Pioneer 17852 A. bred by C. H. Searl and bred to Onward on December 23. She is an extra large strong animal, and prolific, and a good mother. One of her gilts out of a litter of sixteen was fitted for show last fall and was a continuous winner. In fact Mr. Davis says that he has not seen a better of any breed. She is now on the farm and may be seen by visitors. Her sire, Onward 12587, by Logan Chief 8021, out of Trixy 26076, was bred by Geo. E. Butler and was the yearling that won first and sweepstakes at Pawnee County Fair in Nebraska; first and sweepstakes in the Brown County Fair. He is very large for a yearling with extra deep and wide body and stands right up on his toes. Victor W. 10185, who is the sire of many animals in the sales, is the son of Minnie F. 16477, and an own brother to Luella 20686 who was the sweepstakes Duroc sow at the Pawnee, Neb., Fair of 1902. This offering of Durocs is in a very healthy growing condition, is ready to go to work for the purchaser. Arrangement have been made whereby Mr. Davis can be reached by telephone through the St. Joseph, Hiawatha or Sabetha exchanges at his farm and vistors may call at the Conrad livery barn and be taken to the farm where they can buy some of the best. Mr. Davis has long had a reputation for lairness and now announces that every female sold that does not prove to be safe with pig may be left with him until safe in farrow or until March 1, after which time if the purchaser desires, the money will be refunded, should the animal not prove to be in farrow. Write for one of his little red catalogues. (Continued from page 119.)

will be refunded, should the animal not prove to be in farrow. Write for one of his little red catalogues.

The next great Shorthorn event at Kansas City, and perhaps one of the most attractive sales of the year, will be the sale of T. J. Wornall & Son, of Liberty, Mo., on February 10, and the day following by Col. G. M. Casey, of Clinton, Mo. The fact that two of the most celebrated herds in America are to consign select drafts of their celebrated cattle which they are willing to let go at buyers' own prices, is an opportunity that shrewd breeders will not overlook, Mr. T. J. Wornall & Son have made a number of acceptable sales heretofere, and meantime have kept on improving their herd, and the offering in this sale will be superior to any previous one. Their Grassland Herd of Shorthorn cattle was the champion Shorthorn herd of America two years in succession. In the three years which they have shown the herd, they won seventeen prizes in the twenty shows made. The herd at present is headed by Imp. Conqueror 149048, a Marr-bred "Missie," and nearly a full brother to the \$6,000 Missie 153d, sold at the Chicago sale. Conqueror is assisted by Valley Count 157351, sired by Viscount of Anoka, the champion of 1900, and out of Lady Valentine, champion cow of same year. Last year Mr. Wornall only showed a young herd and won first on the same and get of sire at the Missouri State Fair. At the Iowa State Fair he won second on 2-year-old bull. second on senior yearling heifer, second and third on joung herd. At Minnesota State Fair he won second on 0-year-old bull. calf, and second on young herd, and first on get of sire (Viscount of Anoka) at the great American Royal the herd won second on 2-year-old heifer, first on senior yearling heifer, second and third on junior yearling calf, and second on bull calf, second on young herd, get of sire and calf herd. Also at the International did equally well. Those familiar with the strong competition will appreciate the merit of the cattle able to win such desirable prizes, and it

URPE'S SEEDS ARE THE BEST THAT CAN BE GROWN
Should read BURPE'S FARM ANNUAL FOR 1903,—so well known as the ding American Seed Catalogue." It is mailed FREE to all. Better send your address DAY.

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For Boys Who Can Grow Corn in the corn country to grow pure bred seed corn this year.

We Will Furnish The Fure Bred Seed, and will give Bred seed corn this year.

30 Books worth \$1.00 sach; One Sweepstakes Gold Watch; One Champion 48 CASH - PRIZES, Silver Watch; a \$45 Solentific Feed Grinder, a Hallock Weeder, and from \$20 Each down for particulars. Sent free if you mention this paper. WALLACES FARMER, DesMoines, lows.

good schools, pure water, low prices.

Oregon Farms.

If you are going west, write for my list of wheat, grazing, dairy, fruit, and timber lands. Fertile soil, mild climate, N. T. CONKLIN, Pendleton, Oregon.

POSTS We will save you money on your Telephone Poles or Ferce Posts or any kind of Lumber or Building Material Write us for wholesale prices on White Cedar Posts and Poles DELIVERED AT

YOUR STATION. freight paid. Send us your house and barn bills for estimate, free of cost. We will save you the middleman's profit Price Guide on request.

South Chicago & Calumet Lumber Co . 951 Harbor Avenue, Chicago. III.

the champion buil, Viscount of Anoka, the first of consequence ever offered at auction. It is significant to state that 48 per cent of this famous bull's get have been either first or second prize-winners wherever shown. In the female offering of Grassland Shorthorns, 44 head in all, 23 head are Scotch cattle and the balance Bates and Scotch-topped Bates and American families. In the bull consignment there are 10 head, most of which are suitable for herd-headers, and it is the opinion of the writer that a better lot has not been offered for sale at Kansas City during recent years. In the Tebo Lawn draft Colonel Casey puts forth an exceedinly attractive lot of 50 head. Twenty-one cows will have calves at foot and the balance of the cows and helfers of breeding age are bred and guaranteed in calf. Twelve of the females are in calf to Choice Goods, the champion of 1902, and the balance are bred to the other herd bulls. About 9 head of young bulls, 11 to 16 months, will be included in the Casey offering. In view of the fact that it is his first public sale he does not expect any fancy prices but believes that he has a class of cattle that any breeder can afford to buy, and the writer believes that he has a more uniform lot of cattle of ideal beef type has never been offered a auction. In the first place there is not an inferior breeding animal at Tebo Lawn, and owing to the remarkable uniformity as to individual excellence it would be quite difficult to select any one as superior to the rest. The average visitor expresses it that the Casey cattle are all like so many peas in a pod. For catalogue of the sale to be held February 10, address T. J. Wornall, Liberty, Mo. and for catalogue of the Tebo Lawn draft address E. B. Mitchell, Clinton, Mo.

A. Johnson, Clearwater, Kans.. breeder of registered Hereford cattle, has a son of Corrector at the head of his herd, which indicates at once that he is a breeder of enterprise and that he has started right. Although Mr. Johnson has handled Hereford cattle for a considerable time, it is but recently he has got into the pure-breed business. Starting with Harold 3d as a herd-header, and a good bunch of cows, he is now prepared to sell a few animals of this excellent breed. Before engaging in the pure-breed industry Mr. Johnson attended a large number of sales and shows, and visited many of the pure-bred herds of Herefords in the State and elsewhere, and has the satisfaction of knowing that with the exception of a few show animals, he has as good a herd as is to be found in the West. With true Kansas hospitality he invites visitors to inspect his cattle, and remarks that if they will notify him beforehand he will be glad to meet them at the train and take them out to the farm. Our readers will notice his breeder's card on another page, and write him for full information. His cordial invitation to visit him at Clearwater will be accepted by the Kansas Farmer man, and we hape by many Kansas farmers as well. The life of the pure-bred industry is the young breeder who has studied the subject thoroughly, and has started out right, as has Mr. Johnson.

the subject thoroughly, and has been out right, as has Mr. Johnson.

The Glenwood Herds of Shorthorn cattle and Poland-China hogs are in the finest condition. Mr. Nevius writes that he has had a fine trade in Poland-Chinas and has lately shipped from Chiles, Kans., thirty-four boars for breeding purposes, which have all been taken under 200 pounds, and the last one is gone. He still has a few choice glits by Glenwood Chief Again, who is a half brother to the sire of the second prize boar pig of the American Royal last fall and they are an even lot and are all bred to Glenwood Chief Faultiess, who has a ten-inch bone as a yearling. In Shorthorns he has been doing a fine business. He recently sold a young bull by Baron Champion to J. M. Williams, Coldwater, Kans., who has been lately earning quite a reputation as a breeder of good cattle and who writes that the bull meets his ideal entirely. Among other bull sales is one to Rooks County, two to Johnson County, one to Franklin County, one to Coffey County and a number to Miami County. He still has two yearling bulls and several calves from 10 months old up which are described as very nice and even and

which were sired by Gloster or Lavender Gloster. These are for sale right. He will also have about thirty calves this spring all by Victor of Wildwood who weighs 2,100 pounds at present. See change in Mr. Nevius' card on page 132.

change in Mr. Nevius' card on page 132.

S. A. Spriggs, Westphalia, Kans., who has made such a reputation for himself as a Percheron and a Mammoth jack breeder, sent in a change in his advertisement, which appears on page 134. He remarks that he is in the business for the good of the breed, as well as the profits, but he does not want to sell on time or trade, hence he has adopted the policy of selling very close for cash. His Percheron stallions are of Brilliant blood, and are characterized by freedom from blemish or vice. They run from 2 to 7 years old, and are either imported or American-bred with imported sires and dams. His Mammoth jacks are black with mealy noses and white underline. They are all registered or eligible, and range from 14% to 16 hands, while the jennets constitute one of the best bred herds in the West. Those offered for sale are bred to Black Prince 324. Mir. Spriggs' farm is rather crowded just at present with this good stock, and he is prepared to offer bargains to those who come early. Mention the Kansas Farmer and write him at once.

Berrytown Institute Program.

A. A. Adams, Sec.

"BURPEE'S SEEDS GROW."—This famous motto of an equally famous seed house is true in a double sense; for not only do Burpee's seeds grow when planted, but they grow constantly and very rapidly, year by year, in the favor and confidence of all who cultivate vegetables and flowers. So intimately is the name of this house associated with all that is best in seeds, that the advent of Burpee's Farm Annual is awaited each year, as an event of real importance in planting circles. Of this publication—well known and universally spoken of as "The Leading American Seed Catalogue"—the 1903 issue is especially noteworthy. It is an elegant bok of 184 pages, with beautiful colored plates; a veritable storehouse of valuable information regarding choice flower and vegetable seeds, and mailed free to planters everywhere. It is much to be recognized as the largest mail-order seed house in the world, but it is yet more to mail all over the world "The Best Seeds That Grow." Both of these distinctions can be truthfully claimed by Burpee, Philadiphia.

We call attention to the advertisement of alfalfa seed by Geo. H. Mack & Company, one of the leading manufacturers of Garden City, Kans., who have a well-established trade as shippers of pure alfalfa seed. The seed they are now offering for sale is well described in their advertisement on page 131. Write them for prices and mention the Kansas Farmer.

Borticulture.

A Study of Orchard Soils.

FROM AN ADDRESS BY PROF. R. W. CLO-THIER, CAPE GIRARDEAU, MO.

One thing we should always bear in mind in discussing soils, and that is that they, for the larger part, are made up simply of ground-up rock, and that whatever difference there may be in the texture of soils, that difference is not due so much to its chemical composition as it is due to its physical properties. You may take the blackest soil that you find in any of your States, burn it, and you will find it to be redish colored sand and clay. Soils are composed of sand and clay mixed in varying proportions, and with that sand and clay we have vegetable matter; these are the three physical components of soil—sand, clay and vege-table matter. The vegetable matter in many senses is the most important part of the soil, although we could not get along without the mineral matter for one moment.

You are aware of the fact that, taking the total weight of a plant, a very small part of it comes from the soil; in many pine-trees less than 1 per cent of the weight of the plant comes from the soil. In grasses and forage plants it runs up as high as 8 or 10 per cent from the soil. In our hardwood trees it is about 3 per cent. The remainder of the weight of the plant comes from the air and from the water, so that the great bulk material produced in plants is not a product of the soil, but is the product of air and water. But small as the percentage is that comes from the soil, that part is of indefinite importance. Plants take something like eight elements that they must have from the soil. It is not necessary to name these eight, but if any one should be absent it is a poor soil, no matter how much of the others may be present. If you deprive your soil of iron it would be impossible for you to produce a plant. You could not get the green coloring matter in the leaves without iron, and without the presence of the green coloring matter the plant could not manufacture starch, and starch is an important part of the tissue of a plant. It would be impossi-ble for us to deprive the average soil of iron, but if that could be done, it vould be a poor soil. In discussing the elements of plants I do not want to discuss iron, because iron is so abun-

dant that plants never suffer for it. There are three elements which you are familiar with that we generally discuss. These are potash, phosphate, and nitrogen. We discuss them because they are more essential to plant life than the other five, because soils are liable to become deficient in these three while they have an abundance of the others. Soils become deficient in other elements; for example, lime. I believe it would pay the chemist to discuss the presence of sulphur. When I mention the three elements of pot-ash, nitrogen and phosphate I have the three most important. Two of these are mineral products of the soil—phos-phate and potash. Nitrogen comes from vegetable matter, and is taken from the air by means of the leguminous plants. What is of most importance to you as apple-growers is that the nitrogen of the apple-crop must come from vegetable matter, and does not come from the air—can not be taken from the air. In order to get the nitrogen into the soil you must do it through vegetable matter, through the clover plant or cow-pea, that has power to take the nitrogen from the air. This is the most important point related to your work. Vegetable matter performs the important service of bringing potash and phosphate into solution. They tend to get locked up in forms in which plants can not obtain them. Professor Charles has shown that soils rich in humus contain three or four times as much phosphoric acid as those in which the humus is depleted. In addition it serves as conserver of moisture. It helps to retain the rains that fall upon Just how that is done I do not believe that even the most practical farmers realize. Last year we had a drouth. It became my duty to sample the various soils in the community and see how much moisture they contained. I sampled soils growing clover and cow-peas, apples, alfalfa, and so on, over something like thirty different farms, having various crops growing on them. I found that in the clover and orchard-grass meadows the water had diminished until there was only one-half of 1 per cent of moisture on the first three inches.

One small orchard had been treated in this way: Twenty loads of good stable manure had been added along

in November, had been plowed and then rye had been sown. Early in the spring, before the rye had grown ripe, it was plowed under. The ground then was disked after each rainfall. the rains ceased about May 1. The disking was continued, only enough to keep the crust broken, after each rain. At the end of the drouth, August 1, there was 16½ per cent of moisture in the first fifteen inches. I sampled an orchard that had not had that treatment, and the percentage of moisture on the first fifteen inches was 9½. I believe the humus was more than half to be credited with saving that moist-ure. What does that much moisture mean to us? It means almost two inches of rainfall. Corn can not grow —at least in my experience it can not mature—when the moisture falls to 8½ per cent en the best seil, and en soil can net grew with moisture at 12½ per cent—the corn would be absolutely dead. Soils contain about 20 per cent of moisture when they are in good tillable condition; so this soil was in first-class growing condition for crops. In sampling I could scrape off the soil and roll it into mud balls; that shows you something of the value of vegetable matter in the soil.

I do not know how many of you have ever studied the effect of the apple-tree upon soils. I take my figures from a bulletin issued by Cornell University. It represents the results of their experiments, and up to the date of publication was the most complete work on the effect of the apple-tree upon the soil, and I will present that to you now and leave the question in your hands.

I shall seperate the apple-tree into leaves, trees, and fruit. The average yield of a good apple-orchard is two hundred bushels to the acre every year of its life. We find that the apples will remove in a year thirteen pounds of nitrogen, only one pound of phosphoric acid and nineteen pounds of potash. Figured at the value of commercial fertilizers, 15 cents a pound, I find that the apples remove \$2.45 worth of fertility. The figures given in the Cornell bulletin were on a twenty-year estimate, and they figured that the production of leaves increased as the tree grew older. I estimate that from one year up to thirteen it would remove one-twentieth and have added five years and divided by twenty-five, and got an annual yield of 19 pounds of nitrogen, 5.2 pounds of phosphoric acid and 18.4 pounds of potash removed each year in the leaves. I need not say very much to you about these leaves, but you can see that you can help to prevent your soil from deteriorating by getting the leaves into the ground rather than by piling them up and burning them.

Then, trees and leaves draw nitrogen, phosphoric and potash enough to make the total value \$9.01 per acre pear year of average removal of fertility of an apple crop growing thirty years. I have compared that with corn: Corn removed \$9.20, provided you could grow fifty bushels to the acre; but if you count in the corn-fod-der as being removed, it would remove \$10.68 in addition, and, adding the two, it gives us \$19.88 an acre, with \$9.01 on the apple crop. So you can see that the apples are about half as hard on the soil as corn. Estimating these maximum yields, which are what we want to get at in our farming, in order to see what we miss, I have taken the fertility in the various soils. I have classified the soils and I have taken the average of all of them. I find in the first foot of average soil 35,466 pounds an acre of nitrogen, 5,176 of phosphoric acid, and 48,181 pounds of potash. That means that such a soil ought to produce apples at the rate stated for 133 years before they would exhaust the nitrogen in the first foot. There is enough phosphor-528 years, and enough potash to last 143 years. In Michigan there is enough nitrogen to produce apples for only fifty-nine years; its soil is poor in nitrogen, and needs plenty of manure and cow-peas. the soils in Missouri I have only three analyses made, and they are on average upland soils and on average bottom soils. It is about ten years since these analyses were made by Professor Schnitzer. I realize that we ought to have thirty or forty of these analyses in order to say that we have samples of all the soils, but I think we would find the same results—enough nitrogen to last 92 years, phosphoric acid to last 205 years, and enough pot-ash to last 1,045 years—for the apple crop. This table shows that when an apple orchard plays out at the end of twenty-five or thirty years it certainly is not playing out because it has exhausted the fertility of the soil. By faulty methods of cultivation we may

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Alfalfa, Bromus Grass, Timothy, Meadow, Tall and Sheep Fescues, Orchard
Rye and Oat Grass, Water and Floating Grass, all Natural Grasses for all kinds
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ENCILARIA the money maker for farmers. Produces four times as much hay as clover, twice as much as cane, millet or any other plant, and of better quality. One lb. will plant an acre. Per lb, 75c, lb, 25c, sample free if you mention this paper. Large illusted catalogue of Garden and Farm Seeds, Seed Corn, etc., REE. IOWA SEED CO., Des Moines, Iowa.

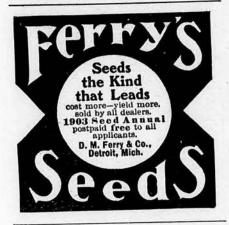


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Note—The supply of seeds for our Special Packet, mentioned above, is limited, some of the varieties being rare, and all who desire to avail themselves of this remarkable offer, should write for them immediately. Address.

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R. M. KELLOGG, Three Rivers, Mich.



exhaust the nitrogen a great deal faster than fruit will take it out. In grower than fruit will take it out. In growing wheat it is possible to remove eight times from the soil, by our methors of tillage, as much as the wheat takes away. You divide those figures by eight and you find that you are getting down toward the limit of unproductiveness. That is faulty tillage. By adding manure you correct that.

Birds and Orchards.

Mr. E. S. Tucker, Kansas State University, Lawrence, Kans., writes as fol-

"In referring my article published in the Kansas Farmer of November 20, 1902, to the U. S. Department of Agriculture, the following reply has been received, which I submit for the benefit of your readers:

"'U. S. Department of Agriculture, Biological Survey, Washington, D. C. "E. S. Tucker, Lawrence, Kans. "Dear Sir:—Your favor of the 5th instant, and the article on "The Destruction of Fruit by Birds in Sedgwick County" has been referred to me for consideration. If you will turn to page 33 of bulletin 54, "Some Common Birds in their Relation to Agriculture," U. S. Department of Agriculture, you will find that I have there described in general terms the situation of which you have given a specific example. The conditions are artificial and ab-normal in every respect. When, in addition to the orchards and vineyards, artificial forests, with their acompany-ing fruit-bearing shrubs, shall have grown the present trouble will practically cease. In the meantime I do not see that there is any other remedy than the one that was applied, much as I deplore such destruction of bird Too many birds were collected in a limited area with the usual result. It is evident that the killing did some good as the birds were less destructive

'The fruit growers of California have been for several years struggling with the same problem but the conditions are slowly becoming more nor-mal,—in fact so much fruit is raised there that it is only in small archards that the damage by birds is noticed.

"'As I have stated elsewhere, the damage by birds usually arises from too many birds, or too many of one or a few species, collecting in a limited Under such circumstances the natural food supply becomes insufficient and the birds turn their attention to other sources of supply with the consequence, usually, that some agricultural product has to suffer.

"'I send herewith a copy of bulletin 54, also "How Birds Affect the Orchard," which shows the other side of the case.

F. E. L. BEAL.

In charge Economic Ornithology."

Celery Culture. EDITOR KANSAS FARMER:-To grow

celery plants, select loose, rich garden soil, work it as long as you find clods. Then with a plow run furrows three feet apart to make beds. The beds must be narrow enough to walk in the furrows. When planting the seeds and cultivating the plants work from each side, sow the seed about the 1st of March, soon as the ground is in a condition to work. I like to have them planted by the middle of the month, and it takes them about two weeks to come up. When you get ready to plant the seed work the ground up fresh. Get a board five or six inches wide, long enough to reach across the bed to mark off the bed into rows. Lay the board down, turn on edge, push the soil just enough to make a shallow row; make the rows the width of the board apart. Sow the seed in the rows and cover them with some fine dirt. Then take the edge of the board and press the soil lightly on the seed. When the tiny plants begin to come through the ground take your hand and sprinkle fine dirt around them. When well up begin to cultivate. I use an old table fork to draw the loose dirt around the plants until they are large enough to hoe. When the plants get six or eight inches high, transplant. Lay off the ground in rows three feet apart. Make the furrows rather deep. Set the plants in the furrow eight inches apart. Have the ground rich and loose. Begin to cultivate soon after setting out. Hold the stalks close together with one hand so the dirt will not get in the crown of the plant and pull the dirt up to the leaves. Work often. Keep hilling up as the plant grows. Be careful not to bruise the stalks. If the earth you hilled around the celery does not blanch it by cold weather, dig a trench about two feet wide and a little deeper than the height of the celery. Set the plants upright in the trench close together. Cover the roots with dirt and pour some water around them

Plant Trees for Posts

Catalpa, Osage, and Russian Mu'berry Seedlings, one year old for planting. The Catalare from seed selected from knewn Speciosa trees. Write for prices, stating number

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if the dirt is dry. Do not pour the water on the tops—will cause it to rot if the water gets in the trench. Cover with boards and throw the dirt around close. In very cold weather put straw or leaves over the celery,

but if it gets too warm it will rot.

La Belle, Mo. B. P. WAGNER.

Bermuda Grass.

EDITOR KANSAS FARMER: - Recent inquiry as to the suitability of Bermuda grass for this section leads me to give some personal experience. On my south terrace the sun's heat has proved too great for blue-grass or other usual lawn grasses and in April, 1901, I sowed it with Bermuda grass. This came up in patches but made a good growth, which I allowed to remain through the winter without cutting. Early in April, 1902, the Bermuda grass seeming entirely dead, I burned it off close to the ground as the easiest way of being rid of it.

About May 1 I noticed that the roots were throwing out small green shoots or blades and was agreeably surprised to find that it was "not dead but sleeping." From this time it grew with great rapidity until by May 15 the ground was well covered.

In color it is a lighter green than blue-grass. It grows very short and compact, putting out runners which form joints every two inches, at each of which it takes root, thus spreading rapidly, so that my terrace which was patchy in 1901 was completely covered in the fall of 1902, and had no equal in the neighborhood.

This experiment leads me to believe that Bermuda grass has its place in this latitude; that it will make abundant pasturage and is without comparison for use on terraces with southern A. G. TRUMBULL.

Kansas City, Mo.

Locust for Posts.

EDITOR KANSAS FARMER:-I have gathered some honey-locust seed, and I ould like to know how to prepare the seed before planting. Laton, Rooks County. C. DOANE.

Both the black and the noney-locusts are good for post-timber. There seems to be little difference in their value as posts, either of them lasting well with other hard woods. The slight dif-ference in their value seems to be in favor of the honey locust. ference would vary in different soils, depending on the water content and the fungi in the soil. The black-locust is often badly attacked by borers.

Seeds of both the above may be had at any seed-house and may be put out in the fall where they are to grow, or they may be soaked in hot water in the spring about the time the frost is out of the ground and then sown. The seedlings should be planted in the permanent grove at the age of one or

Good timber trees for Kansas are,

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Fruit Trees 17 Peach, \$1.00.
50 Concord, \$1.00.
1000 Mulberry, \$1.00
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CATALPA SEED.

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By single pound, postpaid, \$1.00. Extensive experience. Send for clicular.

E. H. Roudebush, Topeka, Kans.







honey-locust, black-locust, osage-orange and catalpa, any of which make valuable posts.

ALBERT DICKENS. Kansas Experiment Station.

It requires many years to grow a great oak. You can raise a gourd in three months. The Kansas Fabmer is forty years old. Subscribe now.

The Poultry Yard.

Light Brahmas.

The Light Brahmas are one of the leading Asiatic breeds, and are perhaps one of the oldest in this country. There are two varieties of the Brahmas, the Dark and the Light. One would scarcely think that there could be so much difference in the popularity of these two varieties from the fact that the make-up of the two are just the same, the difference only in color;



but the facts are that the light variety is one of the most popular, and stands at the head, or in company with the leaders of the poultry tribe irrespec-tive of variety or class. Thus in choos-ing between the two varieties of Light Brahmas, the color must certainly have had all to do with bringing them into much greater popularity over their

The Light Brahmas are the heaviest weight fowl in chickendom as recognied by the standard, and in this the standard has not placed their weight too high when placing cocks at 12 pounds and cockerels at 10 pounds, hens at 91/2 and pullets at 8 pounds. It is not uncommon to find Light Brahmas that exceed these weights—even as high as 15 pounds for cocks, and 10 pounds for hens. The Light Brahma of the present time that is well bred is a bird that no one can help but admire. They will catch attention either in the show room, or on the farm ow-ing to their attractiveness in both size and color. A well-bred Light Brahma has a solid white body in surface color, the under color running bluish-white or slate. Head and neck plumage other than hackle should be white, and hackle proper is white web, with solid black stripe down the center of each feather. The Light Brahma hackle is really a thing of beauty, and a piece of nature's work that can not be equalled by any artist. The tail is solid black, and the sickles glossy greenish black. Wing primaries broken black and white, or solid black, and the solid black always have the preference. Shanks should be feathered down, and out to the point of the outer toe, and the middle toe should be feathered as well.

The Light Brahmas have peculiarities of their own that no other breed of chickens have. They lay the largest egg, the heaviest egg, and if eggs were sold by the pound, one dozen of Light Brahma eggs would bring a few cents more than any other. The little chick when arst hatched is the heaviest and largest of any. The greatest peculiarity only found in this breed 1c, as I have found it, that the chick from the time hatched carries its weight with it, and every day increases it, and thus grows into pounds faster, and in comparison with any other, weighs more at any age, and is always a solid compact piece of good meat when prepared for the table. The Brahmas are good layers, and will do their share in producing winter eggs if they have proper attention. They stand the cold weather well, and scarcely ever have a frozen comb, because their combs are so small that the freeze combs are so small that the freeze seldom catches them. They mature rapidly, and will easily reach standard weight if the stock is good and healthy. The Light Brahma is not the best of sitters, or hatchers; I think, from the fact that they are always so heavy, and seem to throw all their weight on the eggs when sitting. They do not sit light on the eggs like the Cochins, and thus they break many eggs. They are very good mothers, but not so kind and careful as some others. Like all the large breeds they should be marketed off early, and should not be re-tained after two years old, and better at one year. I would not keep them longer than till they lay out their winters laying the second winter. No one will be disappointed if they adopt the Light Brahmas as a farm fowl, and the best proof of this is, that they are

kept largely on the farm as the best all-purpose chickens in the opinion of very many farmers. A. H. DUFF. Larned, Kans.

Me an' Jake Hefner.

I didn't know I was tacklin' such a big job when I undertook to write fur a paper. When it comes to writin' common letters, I can git along very well, but if you want to know about chickens without any grammar in the descriptions, then Jane and me an'

It was a long time before we knowed fur sure that we could stay out the five years (accordin' to law) on our claims, seemed like the land would grow only buffalo-grass and prairie-dogs. There was no market fur chuckens except when new settlers come in an' they didn't want many because feed was scarce, and because money was scarcer; but, Jane an' Tilda kept raisin' chickens and the young roosters helped make out Sunday dinners; seemed like the hens was about all the way there was to make a livin'. The store at Clay Center took eggs fur provisions. Whether we raised much grain or not, seemed like the hens got along all right.

Jane an' Tilda looked like they had forgot about Indiana, and was helpin' to pay for a home, see?

I nearly forgot to tell you about their hen-houses, they was made of sod and covered with hay; the sodwalls was thick and so was the hay-roofs, but the south side was open. As Jane an' Tilda raised more chickens, me an' Jake made more henhouses. Seemed like it never rained in this country then an' the sod houses was bound to be dry.

Me an' Jake could git ten thousand dollars apiece fur our farms, now any day; an' there is no use denyin' it, Jane an' Tilda an' the hens was the cause of it; of course me an' Jake made the houses, but what else could we do without ownin' up that we was no account.

I like to git off a joke on Jake sometimes, the last time I got off one was when I told Jake that if I was goin' to marry a hundred wimin I would go back to Indiana after 'em. But I'm strayin' from the checken question. I'm here to tell a good many chicken-raisers that their new-fangled things about chickens is not much improvement over the old way after all; spendin' the worth of a farm goin' into the checken business is not much ahead

of makin' the hens pey fur a farm.
It seems to me that the checken business is gettin' demoralized instead of revolutionized, "as they call it," instead of the big long and wide sod-houses, straw-houses and log-houses, they must have thin wall, painted houses made tight as a drum with the fool notion that it was the right way to keep out cold. It's my honest opinion that if they don't open their poultry houses and let in some air and tear down the fences around the prisons that in a few more years the constitution of great American Hen, "as they call it," will be braked down so that rupe will be a tame thing along side of hen tuberculosis and a dozen more constitutional complaints.

Winter egg production looks nner than silk, when tellin' of it is the only expense, but when it comes to forcin' it by juggin' the hens up where there is no air and disinfect (as they call it) with stuff that smells worse than any hen house would, if left alone, then they are preparin the way to go out of the business. W. M. JOHNSON. Clay Center, Neb.

Poultry Notes.

Warm milk is a good tonic for sick fowls. Growth may be hurried by feeding

often. Sour milk and buttermilk are good

pountry Allow growing chickens as much opportunity to exercise as possible.

Coal ashes are not fit for the dustbath until the cinders have been sifted

As a rule sitting hens should not be

fed while on the nest.
Plaster-of-Paris scattered over the floor of the poultry-house is a good disinfectant.

The fowls use the dust-bath not only to clean themselves but as a means of

One advantage with Pekin ducks is that they make a very rapid growth. Guinea fowls are not so white of flesh as chickens but are more inclined

to the pheasant color. A morter made of sand and lime in such proportions as to have it crumble easily is a good way to supply lime.

The trash from the barn-floor thrown in the poultry-house for the fowls to

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FOR SALE—A fine lot of Black Langshan cockerels for sale. Some with score cards by Judge Rhoades. James Bottom, Onaga, Kans.

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FOR SALE—Pure bred B. P. Rock cockerels, \$1.50 to \$2. Mrs. Ada Ainsworth, Stilweil, Kans.

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FOR SALE—Barred Plymouth Rock cockerels, \$1.25 each. J. A. Sawhill, Edgerton, Kansas.

FOR SALE—Barred Plymouth Rocks and Brown Red Pit Games. Prices reasonable. Address Mrs. Porter Mo^re, R. R. 4, Parsons, Kans.

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extra fine B. P. Rock hens and young cockerels will
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scratch over will not only add to the variety of the food but offers a good means of exercise.

Supply as good a variety of food as possible and see that the fowls have all they will readily eat up clean.

The flesh of birds differs in quality

according to the food on which they Unwholesome food means poor

It is a good plan when whitewashing the inside of the hen-house to white-wash the roof.

Unless you have a real liking for the fowls you intend to breed, you can never give that care and attention necessary to the best results.

Pire wheat is better than screenings when buying feed, as usually in buying screenings you are obliged to pay for considerable dust.

It is essential in saving droppings that they be kept dry. If allowed to stand exposed to rain and sun they lose their most valuable elements.

In picking out the turkey-hens to save for breeding, give preference to good form, fine stout drum-sticks, square bodies and breasts are of more importance than large size.

So far as can be done, it is nearly always best to keep breeding fowls separate from the main flock, selecting

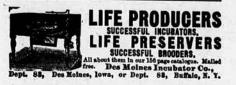
out the very best fowls for breeding. During the winter especially when the fowls are on a dry diet almost exclusively, chopped onions make an excellent feed if given two or three times

чеек. When it can be obtained readily, wire fencing is much the best for the poultry yards. One advantage with it is that it can so readily be moved.

Capons come into market along with early broilers. Quality is the main point; they should be as large as possible and in a plump condition. They are considered had than common fowls.

N. J. Shepherd. are considered much daintier eating

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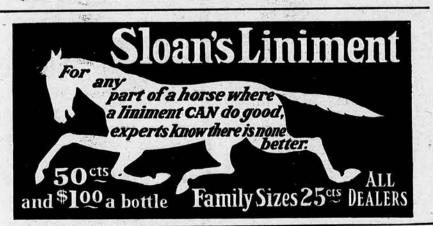
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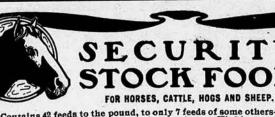


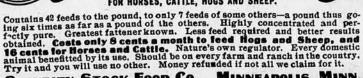
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NATIONAL GRANGE.

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Overseer. J. C. Lovett, Bucyrus
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Steward. R. C. Post, Spring Hill
Assistant Steward. W. H. Coultis, Richland
Chaplain. Mrs. M. J. Ramage, Arkansas City
Treasurer. Wm. Henry, Olathe
Secretary. Geo. Black, Olathe
Gate Keeper. G. F. Kyner, Lone Elm
Cores. Mrs. M. J. Allison, Lyndon
Flora. Mrs. Ida E. Filer, Madison
Flora. Mrs. Lola Radeliff, Overbrook
EXTECHINITY COMMENTATION

EXECUTIVE COMMITTEE.

Henry Rhoades. Gardner
J. T. Lincoln. Olpe
A. P. Reardon. McLouth

W. Westgate, master Kansas State Grange, visited Indian Creek Grange, Friday, January 16, and con-ferred the first and second degrees upon a class of five and the third and fourth degrees upon one, then installed the officers elected for the ensuing year and enjoyed a hot and hearty oyster supper and was taken to the depot by Brother and Sister Rude in season for the 6 o'clock train for Manhattan. This grange at this time last year numbered thirteen members and was meditating the giving up the ghost, but it received a sudden inspiration from some source, and now numbers forty active, interested members; and one who was a member of this grange has formed a new one near by with about the same number. Bro. Dickinson is doing a grand work in the vicinity of Meriden and we hope to hear good reports of results soon.

Grange Meetings in July.

The worthy lecturer of the National Grange, the Hon. N. J. Bachelder, has promised to give the granges of Kan-sas six days during the latter part of July, commencing on Monday. I have not been able yet to secure promise of a longer time and I can not have any-body else from the National Grange to increase the number of meetings.

We can have one or more of the fac-ulty of the Agricultural College at all of the meetings, if desired, without extra expense to us. The localities visited will be expected to entertain the Grange officials and, if able, to contribute something towards the railroad fare. Any grange or community wishing Brother Bachelder's presence should so decide as soon as possible. Delays last year proved dangerous and in some cases fatal.

Please let me know your wishes and desires soon. All applications will be carefully considered and those accepted which will best accommodate us for the whole trip and promise most of good to the order.

E. W. WESTGATE, M. K. S. G.

At Rest.

Bro. John Trimble is dead. The news comes as a shock to every one who knew him. The grange could not have been what it is but for him. He was one of the founders. And he was more than a founder. His life has been a perpetual inspiration. For nearly eighteen years he has served with rare ability and fidelity as secretary of the great organiation which he helped to establish. He was faithful to the last. On the 30th of December, 1902, he closed his eyes in the restful sleep for which no man was worthier. His work was done. Peace to his ashes. His gentle spirit was always at peace with all men and with God.

Some thoughts are too deep and too r utterance except in the p ence of the dead. Life is sacred and mysterious; death seems to be more sacred and mysterious. We bow with bared heads in the presence of those who have lived worthily and have gone at a full age and without fear into the future which none may see but with the eye of faith until they have paid the price which our good Brother Trimble was so willing and so able to pay. He was rich in the precious possessions which are the only true wealth in the final hour-rich in the sacred treasure which passes current in heaven and on earth. His beautiful life had made thousands of lives more

beautiful. All who knew John Trimble loved him. Some there were who met him but never knew him, he was too clean to be understood by the unclean; too honest to be appreciated by the dis-

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50 Head Registered Percheron and Shire

Stallions and Mares--Consigned by J. W. & J. C. Robison, Towarda, Kans.; Snyder Bros., Many of the consignment were prize-winners at Missouri and Kansas State Fairs and other leading Western Fairs in 1902.

FEBRUARY 4.

60 Head of Registered Shorthorn Cattle

Consigned by J. W. & J. C. Robison, Towanda, Kans.; Snyder Bros., Winfield, Kans.; G. D. Stratton & Son, Walton, Kans.; Fred Cowley, Columbus, Kans.; Harrington Bros., Clearwater, Kans. All leading families represented.





FEBRUARY 5. 60 Head of Registered Poland-China Hogs

Consigned by Snyder Bros., Winfield, Kans. This draft will be selected from our herd, which now numbers more than 400 head.

AUCTIONEERS Col. J. W. Sparks, Marshall, Mo. Col. R. L. Harriman, Bunceton, Mo. Col. Lafe Burger, Wellington, Kans. Col. J. N. Harshberger, Lawrence, Kans.

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honest; too much of a man to be fully comprehended by little men. The children all loved him; for all children love large-hearted, pure, and gener-ous men. All good women loved him; for his heart was right and his life was above reproach.

We may not speak at length of the good brother who has been called to his reward. Suffice to say that he had reached a ripe old age; that his mind was strong and clear as long as life lasted; that his faith was serene and unshaken by disease or by weakness. Until the very last he was the sweet and gentle man whom none knew but to respect and admire and whom none knew well but to love.

John Trimble is dead. It is not so. We have but spoken in parable. The old body in which our dear friend tabernacled for so many years has been laid away; but John Trimble, the Brother Trimble who was known in every part of the land, lives on in his good works and in the tens of thousands of lives he has inspired. We mourn with those who mourn; we rejoice with those who rejoice. It is as he would have it. Let the dead bury their dead; we live with the living as he lives with the living. Life must be sweeter to him now, as it is sweeter and richer to every one who has felt the benediction of his life and the blessing of his friendship.

Held a Public Installation.

The members of the Olathe grange, No. 118, held a public installation of officers at their hall in the grange building on last Saturday, at which there were about 200 present.

I. D. Hibner presided as installing officer, assisted by D. D. Marquis.

After the installing ceremonies were over all were invited to society hall where several large tables had been prepared which contained all the good things of the season. There was nothing left undone in this annual grange

Mr. Hibner made a short speech on the order that was heartily appreci-

Music was furnished by the grange. The day was fine and the large attendance report a very enjoyable time. Olathe grange now has 218 members and new members are continually being added.-Olathe Patron.

Stockholders' Meeting.

The stockholders of the Patrons' Fire and Tornado Association met in annual session in Society hall of the grange building on Wednesday of this week. There was a large attandance present, and the reports of the officers show the company to be in a flourishing condition and growing.

The following officers were elected: President, Henry Rhordes; secretary, D. Hibner; treasurer, Samuel Mc-Pherson.

Board of Directors—A. P. Reardon, Harvy Hancock, W. C. Teas ,W. C.

Brown, Chas. Dellahunt, O. C. Gordon, M. V. Phillips, J. C. Lovett.

Auuitors—R. J. Henry, and A. L.

Hunt.—Olathe Patron.

Installation.

We had installation of officers of Rock grange No. 1438, Thursday night with a feast afterwards. All members present but three. We initiated three members in the first two degrees. They also stayed to witness the installation also stayed to witness the installation, and to enjoy the feast with us. Bro. J. T. Lincoln was our installing officer.

Saturday, a number of us took our dinners (as they were to have an all-day session) and attended the Madison grange, and enjoyed seeing their officers installed. Our master, A. W. Filer, was their installing officer. We

had a very pleasant time. We started our grange in August and now have twenty-six members, and two applications. Mrs. Ida E. Filer. Madison, Greenwood County.

"Millions of Trees" is the title on the front cover of a very attractive catalogue issued by our advertiser, D. Hill, the veteran grower of evergreens at Dundee, Ill. Mr. Hill has been "at it" for more than forty years, and is known not only all over this land but in many foreign countries. He is a patity of old Wardand countries. He is a native of old England where forestry is more intelligently understood than here. He grows all his stock from seed and develops them into thrifty, hardy trees. Those who deal with him once do so again and again as need arises. Write for his catalogue and mention Kansas Farmer when you do.

Thousands of brain workers and women whose health gives way under the strain of overwork, anxiety, the cares and worries of business or the home, suffer from severe stomach trouble, indigestion, headache, insomnia or general nervousness. Many of these poor sufferers try various treatments for years without experiencing anything more than temporary relief. The reason is plain. Briefly—they direct treatment to the symptoms instead of to the disease, a vital error. These troubles can arise from but one cause, viz., a derangement of the nerves. No matter what the cause, the first bad effects of disordered nerves are usually felt in the stomach, the source of supply of nourishment for the whole body. Stomach trouble comes from loss of vitality and results in inactivity of the nerves of the stomach and of its tributary glands. From this condition arise the attacks of indigestion, headache, sleeplessness, nervousness. Irritability and incapacity for the stomach and of its tributary glands. From this condition arise the attacks of indigestion, headache, sleeplessness, nervousness, irritability and incapacity for the daily work. Since these disagreeable symptoms arise from a derangement of the nerves affecting more particularly the stomach, the natural remedy is one that gently stimulates the action of the stomach nerves while it strengthens and invigorates the whole nervous system. Such a remedy is Dr. Miles' Restorative Nervine, which, as its name implies, nourishes, builds, replenishes and restores the nerves to a condition of health and strength. It is a true nerve tonic, creating strength and power in a permanent manner. It is in no sense a stimulant, whose action is purely temporary. If you are suffering from a nervous disorder in even a slight degree you will find Dr. Miles' Nervine admirably suited to your case. It is especially good for weak, run down, nervous women. It is sold by all druggists on a positive guarantee to benefit you or your money will be refunded. We will be glad to help you to a proper understanding of your trouble. Write us today for free treatise on nervous diseases. Dr. Miles Medical Co., Elkhart, Ind.

Poland-China and Horse Sale

we will sell at our farm, 2½ miles northeast of Abliene, Kans., on February 18, 1903, fifty head of first-class Poland-China sows and gilts, all bred, nearly all for March and April farrow. They are the choice of our spring of 1902 crop of pigs, and a number of yearling sows and growthy, very heavy-boned, yet smooth and well marked. Haying been raised with the run of alfalfa pastures, they are very strong and vigorous, and ought to make a useful lot of brood sows. They are of first-class breeding, a number of them being sired by Kansas Chief 28250, a son of Chief Tecumseh 3d. Kansas Chief is a very large, growthy yearling, great depth, fine arched back, fine head and ear, and the best of legs and feet. The yearling sows and gilts are by Hadley I Know, a grandson of Chief I Know; and Hadley 2d. Hadley I Know; and Hadley 2d. Hadley I Know; as a very heavy boned, large hog, of the best quality and an extra breeder. The Hadley I Know gilts are bred to Kansas Chief and the Kansas Chief gilts are bred to Hard to Beat, a very promising young boar, that won third prize at the Kansas City Royal. He is a very heavy-boned, thick meaty fellow, very mellow and even, and ought to be a great sire. Everything to be shipped will be crated and delivered to express office. Any sow or gilt proving not to be with pig will be rebred if returned within thirty days, or we will deduct 20 per cent from purchase price at option of buyers. Parties from a distance will be entertained at the Central Hotel at our expense. Free conveyance to and from sale.

Will also sell 15 head of well-bred young horses, from 3 to 5 years old—drafters, general-purpose and drivers—all broken to harness. Will also offer the Imported French Draft Stallion, Bonneville 605, a very heavy-boney gray, with splendid style and action. A first-class individual in every respect, sound and all right, and a first-class breeder. Weight 1.850 pounds; in just fair breeding condition; was foaled March 12, 1888. Alsa a grade stallion, will be 2 years old the 23d of April next

Free lunch at noon, and will commence selling immediately afterward. Cata-logue of Poland-Chinas on application.

C. M. Garver & Son, Abilene, Kansas.

Auctioneers: Col. J. N. Harshberger, Lawrence, Kans.; Col. J. N. Burton, Abi-lene; Col. Jas. T. McCulloch, Frankfort.



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ST. JOSEPH. MO.

THE MARKETS.

Kansas City Live Stock and Grain Markets.

Markets.

Kansas City, Mo., January 26, 1903.

During the past week a ray of light broke through the gloom that has surrounded the cattle trade of the country the past three or four weeks. A moderate letup in receipts both in the East and West was largely responsible for the betterment in the market. Beef steers sold up to \$5.55 here on Wednesday last, that price being paid by a local packer for a drove of prime 1,344-pound Whitefaces fed by I. M. Clark, of Lewiston, Neb. On four days of the week cattle brought \$5.10 or better for tops. By Wednesday prices had advanced 25@30c from the preceding week. Part of this was lost on the following days, but the close was a little higher than in our last report and the general feeling was the best for many weeks. A year ago top cattle brought \$6.90. If the country would ease off a little and not rush in supplies, there is no doubt but that prices of beef steers would advance, for the demand for meats is something wonderful, and with even normal runs good prices would be paid. Heavy runs, however, enable the packers to bear the market at will.

The stocker market showed but little change from a week ago. The supply on sale was moderate. Very good stockers cost \$4.00@4.25 or even a trifle better. Fair grades brought \$3.50@3.85. Feeders generally sold at \$3.85@4.25.

N. N. Rich, of Gridley, Kans., and William Gragg, of Severy, Kans., both sevents.

grades brought \$3.50@3.85. Feeders generally sold at \$3.85@4.25.

N. N. Rich, of Gridley, Kans., and William Gragg, of Severy, Kans., both secured \$6.82½ for swine last week, the highest point of the season. During the week swine put on another 15@20c and closed at the high point. In spite of the great corn-crop this year, hogs are 40@60c higher than they were in the corresponding period of 1902. Receipts for the week amounted to 35,900 head, and all the big markets showed some little decrease in receipts when compared with supplies the preceding seven days. This was the chief bull factor to the market. The market opened slow and lower, tops selling down to \$6.60, but before the week quit, the trade put back all the loss and then some. Shippers are advised to stick to good heavy swine as they are in the best request and will pay out better. With so much corn in the country and such a strong demand for hogs there is not much excuse for farmers to send in 170- to 200-pound stock when they could make a handsomer profit by putting on a little more weight.

Like cattle and hogs, the sheep market recorded an advance during the week. Re-

more weight.

Like cattle and hogs, the sheep market recorded an advance during the week. Receipts were a little in excess of the preceding week and about 7,000 ahead of a year ago, but this did not intimidate buyers in the least. Clean, active markets were had from day to day and the market closed at the high point. Towards the latter part of the week offerings ran largely to feeding sheep. These sold at the highest point of the winter. Fat lambs are quoted at \$5.50fff6; wethers \$4.7605; yearlings \$4.906.15; ewes \$3.9064.25; feeding lambs \$4.906.15; ewes \$3.9064.25; feeding lambs \$4.906.15; ewes \$3.90c4.25; feeding lambs \$4.90f.15; ewes \$3.90c4.25; feeding lambs \$4.90f.15; ewes \$3.90c4.25; feeding lambs \$4.90f.15; stockers \$2.03. E. M. Hines, of Colony, Kans., secured the best price of the winter for a bunch of wethers, his stock bringing \$5. straight.

ers, his stock bringing \$5. straight.

Continued weakness featured the horse market during the week. Receipts were the heaviest for several months, total arrivals amounting to 2,500 head. The demand was fairly good, but it was hardly brick enough to hold up the market in the face of the big supply. Drafts and chunks sold about \$15@20 lower than two weeks ago and driving horses lost \$10@15. The demand for mules showed a decided improvement, mainly from the South and prices were firm to a trifle higher in instances.

The poultry market held steady during the weeks, but eggs lost nearly 2c per dozen. The near approach of spring and increased supplies from the country were largely responsible for the loss in eggs. Best stock is now quoted at 18@19c; live hens 9½c; springs 10½c; roosters 20@25c; turkeys 12½@13c; geese 8c; ducks \$2@4 per dozen.

dozen.

Wheat went up 1/202c last week on account of a good export demand and heavy buying by Armour at Chicago. Corn gained 1/201/20; oats 1/201/20; oats 1/201/20; oats 1/201/20; oats 330/351/20; alfalfa hay \$80/12; tame hay \$10/0/13.50; prairie \$4.50(9).

H. A. POWELL.

Lawrence Seed Markets.

Lawrence, Kans., January We give you today's buying our market. Outside prices are	DITCES	***
grade:	89.00@1	1.00
Alfalfa	8.00@	3.25
English blue-grass	.75@	1 00
Cane-seed	.000	

PILES Fistula, Fissures, all Rectal Diseases radically and permanently cured in a few weeks without the knife, cutting, ligature, or caustics, and without pain or detention from business. Particulars of our treatment and sample mailed free.

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ment and sample mailed free.

Mr. M. McCoy, Goganac, Kans., Captain Company A, Fifteenth Indiana Infantry, writes: "Hermit Remedy Company, Dear Sirs:—I have doctored for piles since the Civil War—thirty-six years—and am now glad to report that after using your treatment for a few weeks I am completely cured. I believe you can cure any one, for a man could not be in a much worse condition than I was and live, and I am duly grateful to you. Respectfully, "M. McCOY."

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Special Want Column

"Wanted," "For Sale," "For Exchange," and small or special advertiser ents for abort time will be inserted in this column. without display for 10 cents per line of seven words or less, per wyek. In titals or a number counted as one word. Cash with the order. It will pay. Try it.

CATTLE

FOR SALE—Aberdeen-Angus cattle, to close out; 3 young cows, each with an 8-month calf at side. Calves are 2 heiters and a bull. All are recorded. Price \$50. Write for particulars. I. R. Moure, Valley Center, Kans.

FOR SALE—One dark red registered Shorthorn bull. Brookover Bros., Eureka, Kans.

FOR SALE—10 head of registered Hereford bulls, 6 to 20 months old, good in ividuals, and in good condition. Visitors met at trains if notified. F-rm 20 miles southwest of Wichita. A. Johnson, R. F. D. 2, Clearwater, Kans.

FORSALE—A few choice young Angus bulls at right prices. Address J. E. Long, Rock Creek, Kas.

FOR SALE—Red Polled cattle. I have been breeding these cettle seventen years. No better anywhere. Twe ve bulls to select from. D. F. Van Buskirk, Blue Mound, Kans.

FOR SALE—A choice herd of registered Holsteins. Six helfers coming 3 years old, and one yearling helfer from first prize cow. A 2 year-old first prize bull from M. E. Moore's unbeaten 1901 show herd. E. W. Melville, Eudora, Kans.

FOR SALE—My herd bull, Baron Knight 184946, 4 years old, dark red. w.ight 2,200 pounds, got by Gallant Knight 124483; also three Scotch-topped bulls, 14 months old, and a few cows with calves by side. J. P. Engel, Aldan, Kans.

FOR SALE—A few choice Shorthorn heifers and young bulls. M. C. Hemenway, Hope, Kans.

FOR SALE—Ten young Hereford bulls from the Evergreen Form herd, headed by Lee 121232. Address Pearl I. Gill, Great dend. Kans.

FOR SALE—Guernsey bulls from best registered stock. J. W. Perkins, 423 Altman Building, Kansas City, Mo.

FIVE HEREFORD BULLS FOR SALE—Never used in a herd, they are in fine fix, at a bargain for cowmen, O. L. Thistler, Chapman, Kans.

FOR SALE—Six good Shorthorn bulls, four of them straight Crui-k'hanks; prices reasonable; now is your cuance to get a good individual. H. W. Mc-Afee, Topeka, Kansas.

HERD BULL FOR SALE After February 1, will let my double standard Polled Durham bull go; bred in Illinois, good individual, good dehorner; also some young Shorthorn bulls for sale. G. K. Smith, Lincoln, Kans.

HORSES AND MULES.

FOR SALE OR TRADE—Theorist, bay stallion, No 19251, 16% hands, 1,250 lbs., son of high-class carriage horse. sold for no fault; I have two bred alike, and can use but one. Would exchange for a good heavy draft stallion. L. A. Lhuillier, Pleasanton Stock Farm, rieasanton, Kans.

STALLION FOR SALE—Black, 5 years, standard-bred and registered, 1200 p unds, sound, gentle, city-broken single or double, sure foal getter. Traces to Hambletonian 10, only three degre s removed, through both sire and dam. Untrained but speedy. A rare chance to get a choice stallon that will pay for himself the first season. W. A. McCarter, To-peka, Kans.

FOR SALE—One Percheron stallion, 3 years old; me Hambletonian stallion, 4 years old. Both regis-ered. Very cheap. Address G. A. Stites, Hope,

FOR SALE—One 4-year-old black jack, 16 hands, weight 1,200 pounds. Fine jennette jack. G. W. Barnes, Agency, Mo.

FOR SALE-Two registered Percheron stallions, 4 years old, weight 1950 pounds; won second prize at Hutchinson. C. Spohr, Rome, Kans.

FOR SALE OR TRADE—For young cattle, one Percheron stallion, sure fod-getter. J. W. Holsin-ger, Cottonwood Falls, Kans FOR SALE OR TRADE—One imported French Coach Stallion, dark brown, weighs 1,400 pounds, good oreeder; will trade for jack or road stallion. Can show cotts from horse. H. J. Stevens, Welling-ton, Kans.

LEAVENWORTH CO. JACK FARM-34 head of lacks and jennets on hand. O. T. Corson, Potter, Kans.

FOR SALE—Seven jacks, three stallions. For further information call on or address F. W. Poos, Potter, Atchison County, Kansas. Barn three blocks north of depot.

FOR SALE OR TRADE—One of the largest and best Catilonian jac < s in Kansas, black, with mealy points; 2 years old Oct 30, 1901. Would prefer to turn him for registered English Red Polled cattle. Address L. Box 53, Sterling, Kans.

FOR SALE—One bay Clydesdale stallion, 4 years old, weight 1,800 pounds. Write or telephone M. C. Pollard, Wakarusa, Kans.

FOR SALE, CHEAP—One 3-year-old black jack, and red Shorthorn bulls and heifers; show stuff. George Manville, Dearborn, Mo.

PROSPECT FARM — CLYDESDALE STAL-LIONS, SHORTHORN CATTLE and POLAND-CHINA HOGS. Write for prices of finest animals in Kansas. H. W. McAfee, Topeka, Kansas.

BERKSHIRES—Two large boars of April farrow, excellent quality and finish. Ready for immediate service. Address Thomas Page, Station "A" Tomate Kapa

WASHINGFON LAD—The greatest and best Poland-Uninal have ever owned. Some choice glits sired by him now safe in pig; for sale, price \$20 \$25 each, bred to peer of this createire. Spring and summer majes all sold. M. F. Tatman, Kaw Valle y Herd Poland-Uninas, Rossville, Kans.

FOR SALE—Berkshire boars by son of I aported Commander and K ng Biossom; also ored gilts. O. P. Updegraff, Topeka, Kans.

POULTRY.

FOUR voung litters high bred, psuigreed, Scotch Collie pups, for ale. Book your orders quick Walnut Grove Farm, Emporia, Kans.

LARGE, LIGHT BRAHMA COCKERELS— Scored by Rhodes, 93½, \$5; 92½, \$50; 92, \$3; 91½, \$2.75; 91, \$2.50; 90, \$2. Some unscored at \$1 to \$1.50. Mrs. N. Van Bunkirk, Blue Mound, Kans.

FARMS AND RANCHES.

320-ACRE FARM—with fair improvements, good orchard and water. Price \$4.500; in pa. ments, \$800 cash, balance six per cent interest; possession any time. John G. Howard, Emporia, Kans.

FOR SALE-160, \$20 per acre. Write D. W. Bow-man, Burr Oak, Jewell Co., Kans.

FOR RENT OR SALE—Two sections of good pasture land, well watered and well fenced, six miles north of Ogallah, Trego County, Kans. Skimming station at Ogallah. For particulars address, W. J. Rogers, Clyde, Kans.

FOR SALE—Farms and ranches in central and western Kansas. We have some great bargains in western ranches. Write us. R. F. Meek, Hutchin-son, Kans.

FOR SALE—480 acres of wheat and cattle farm land, 160 acres of it in wheat, 10 acres in alfalfa. No buildings. Sure to water. Good neighborhood. Price \$2,400. Write me at Jetmore, Kans., for particulars. A. T. Eakin.

FOR SALE—320 acres fine pasture land in Wabaunsee County, 2 miles from Halifax, good grass and never-failing water. H. R. Rice, Tseumseh, Kans.

SEEDS AND PLANTS.

200,000 FRUIT TREES! Wholesale prices; new catalogue. Baldwin, Nurseroman, Seneca, Kans.

MISCELLANEOUS.

WANTED—A responsible position on a farm. Or would rent a suitable place; ma ried. Dairy graduate. Address Box 122, Carbondale, Kans.

WANTED—Man and wife on ranch, to live by themselves; also siggle man; would like parties that have worked on ranches or farm, and that know how to do farm work. In reply to this advertise-ment, please state your age when writing. Address A. C. Greer, "aido, Kans.

MILITARY LAND WARRANTS—\$5.00 paid persons telling who has one, whether I buy or not. R. K. Kelly, Kansas City, Mo.

FOR SALE CHEAP-Pedigreed Scotch Collie pups. W. H. Richards, V. S., Emporia, Kans.

PATENTS.

J. A. ROSEN, Patent Attorney, 418 Kansas Avenue, Topeka, Kansas.

The Stray List.

Week Ending January 15.

Shawnee County-A. Newman, Clerk. BHAWRES COUNTY—A. Newman, Clerk. HEIFFERS—Taken up by V. Anderson, in Mission Tp., April 30, 1902, one light red muley heifer 2 years old, square cut in left ear; also one dark red heifer, 1 year 6 months old, slit in right ear.

in right ear.

Wilson Co.—C. W. Isham, Clerk.

COWS—Taken up by John S. Gilmore, in Fredonia, Nov. 17, 1992, one pale red muley cow, with underbit in right ear and swallowfork in left ear, white spot in forehead, lower half of tail white, small white spot on back; valued at \$20. Also one dark red muley cow; valued at \$20. Also one dark red muley cow; called at \$20. STEER—Taken up by G. H. Sucliff, in Cedar Tp., Nov. 28, 1992, one red and white spotted steer, underbit in left ear; valued at \$15.

Comanche Co.—T. M. McIntyre, Clerk. COW.—Taken up by L. L. Stubbs, in Nescatunga tp., Dec. 13, 1902, one red and white cow, 3 or 4 years old; valued at \$25.

Week Ending January 22.

Cowley County, Geo. W. Sloan, Clerk.

CATTLE—Taken up by J. C. Gardner, in Silver Creek tp., Nov. 22, 1902, one brindle cow, about 800 pounds, diamond on left hip; valued at \$18. Also one red steer, about 900 pounds, branded M on left hip; valued at \$30. Also one roan steer, about 900 pounds, both ears cropped; valued at \$30. Also one red steer, about 900 pounds; valued at \$30.

Montgomery County S. McMurty Clerk

Montgomery County, S. McMurty, Clerk. montgomery County, S. McMurty, Clerk.
STEER-Taken up by G. P. Dalley, in Caney tp. P. O. Havana), one red steer, 1 year old, slit in right ear; valued at \$15.

Elk County, G. J. Sharp, Clerk.
STEER-Taken up by E. H. Russell, in Liberty tp., one red steer, 2 years old, two hogrings in right ear; valued at \$30.

Miami County, Gao, Osbarna, Clerk.

Miami County, Geo. Osborne, Clerk.

MOGS—Taken up by M. Walz, in East Valley tp., one black sow, left ear torn, right ear torn off, weight 140 pounds. Also three black and white spotted and four black pigs; valued at \$12.

Week Ending January 29.

Kingman County—W. B. Long, Clerk.
HEI FER—Taken up by Cory De Weese, in Rural
tp., November 1, 1901, one red helfer, right ear off,
weight 500 pounds, branded on left hip; valued at \$15 Cloud County-E. J. Alexander, Clerk.

STEER—Taken up by W. H. Wilkins, in Oakland tp., January 6, 1903, one red steer with horns, crop out of right ear; valued at \$15.

MARE MULE—Taken up by A. E. Sherwood, in Hampden tp. (P. O. Burlington), September 16, 1902, one light bay mare mule, about 14 years old; valued at \$15.

Logan County-J. F. Light, Clerk. Logan County—J. F. Indit, Cierk.

CAPTLE—Taken up by James M. Brown, in Winona tp. (P. O. Winona), January 12, 1903. Two red and white cows, ears cropped, dehoraed, one red and white cows, lottch brand on right hip; total value \$57.50. Three red and white helfers, 2 years old; total value \$35. One red and white helfer, 1 year old; valued at \$10. Three 1-year-old steers; valued at \$60. Lebette County—A. H. McCarty, Clerk.

Labette County-A. H. McCarty, Clerk. COLT—Taken up by Jacob Ogle, in Labette tp. (P. O. Parsons B. F. D. 8). January 8, 1903, one red-roan pony colt (male); valued at \$35.

READINGTIME

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is chock full of the ideas of the brainiest men in the country well known men, selected as writers, because they know how to make farming pay. One idea may be worth a hundred dollars to you.

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JAN

Breeders' Directory

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Registered Stock, DUROC-JERSEYS, contains breeders of the leading strains. N. B. SAWYER, CHERRYVALE, KANSAS.

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J. B. DAVIS, FAIRVIEW, BROWN Co., KANSAS.

DUROC-JERSEYS.

Duroc-Jerseys For Sale—Choice July, Aug., and Sept. pigs for sale, both sexes; also 4 1901 bred sows. Prices reasonable. Newton Bros., Whiting, Kans

WALNUT HILL HERD

DUROC-JERSEY SWINE. H. A. J. COPPINS, County Clerk, Eldorado, Kans. Stock of both sexes for sale.

Duroc-Jerseys For Sale

16 choice, vigorous males of spring farrow, and 25 head of extra good glits, either bred or open; best of breeding. Come and see them, or write your wants. Prices reasonable. J. F. CHANDLEB, Frankfort, Kas

Duroc-Jerseys. Grade Hereford Heifers. I have for sair a few open gitts and some fine young boars old enough for service. Also 90 head of choice high-grade H-reford heliers bred to registered Hereford buils. Write me your wants.

T. F. ZIEGLER, La Harpe, Kans.

ROSE HILL HERD OF DUROC - JERSEY HOGS. I have choice glits bred for early pigs, boars ready for service, and a thrifty lot of fall pigs all from large, prolific sows for sale. Two State Fair prize boars in service. S. Y. THORNTON, Blackwater, Mo.

Standard Herd of Registered Duroc-Jersey Swine, Red Polled Cattle,

Swine herd headed by Big Joe 7363 and Ohio Chief. Cattle herd headed by Kansas 8308. Young stock for sale in season. PETER BLOCHER, Richland, Shawnee Co., Kans.

and Angora Goats.

Golden Rod Herd Prize-winning

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VAN'S PERFECTION 11571, sweepstakes boar at all State Fairs of 1902, at head. Everything reserved for my great bred sow sale, February 19, 1903.

GILBERT VAN PATTEN, Sutton, Neb.

POLAND-CHINA SWINE.

Dietrich & Spaulding, Richmond, Kas. FOR SALE-20 boars ready for service. Sows bred or open. 100 spring pigs. Our POLAND - CHINAS are at the Top.

Kansas Herd of Poland-Chinas

Has some extra fine gilts bred, also some fall boars. Will sell Sen. I Know, he by Perfect I know. Address—
F. P. MAGUIRE, HUTCHINSON, KANS

SHADY BROOK STOOK FARM POLAND-CHINAS.

I keep constantly on hand all sizes and ages of low. Write for description and price to H. W. CHENEY, North Topeka, Kans.

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... Of ... Poland-Chinas

With Black Tecumseh 25116 at head, he by Big Tecumseh 24429, a grand individual, and sire of large, strong, crowthy fellows, nearly periect in color, coat, and markings. Large M. B. turkeys and B. P. chickens for sale. Correspond with me at Wamego, Kansas, Pottawatomie County. C. J. HUGGINS.

THOROUGHBRED Poland-China Hogs

Special price for next 20 days on 10 bred glits, to farrow in April and May; they weigh from 200 to 275 pounds, and must of them are bred to Black Perfection 27132, the best breeder I ever owned. Also 20 fall plas, and 4 boars large enough for service. 100 head in head. Write for anything you want in Poland-than hops.

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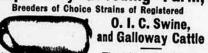
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C. M Irwin. S. C. Duncan, Mgr ELM BEACH FARM, WICHITA, KANS.



BREEDERS OF Poland-China Swine

We have recently bought out the great R. S. Cook Champion Herd and combined same with the Elm Beach Herd, mating us in a position to furnish swine of the highest grade. Poland-Chinas of all ages and either sex for sale. Write or come and see us. Farm is four miles north on Arkansas Avenue......

GREAT COMBINATION BREEDERS' SALE

...REGISTERED...

SHORTHORNS AND HEREFORDS

TO BE HELD DURING THE CATTLEMEN'S CONVENTION AT OKLAHOMA CITY, TUESDAY, WEDNESDAY, AND THURSDAY, FEBRUARY 10, 11, AND 12, 1903.

-Commencing at 1 O'clock P. M. Each Day.-

On Tuesday and Wednesday, FEBRUARY 10 AND II, **80** Head of Herefords

Consisisting of 40 Bulls of serviceable age and 40 Cows and Heifers, will be sold at auction. They are consigned by the following breeders:

Gudgell & Simpson, Independence, Mo.; Scott & March, Belton, Mo.; W. N. Shellenbarger, Oklahoma Cily, Okla.; Mrs. C. S. Cross, Emporia; Kans., and C. A. Stannard, Emporia, Kans.

These are strictly a high-class lot of cattle and we ask you to come and see them.

On Thursday, February 12, **60 Head of Shorthorns**

Will be sold-30 head from the famous Clover Blossom Herd, owned by Geo. Bothwell of Nettleton, Mo., and 30 head from the wellknown Silver Creek Herd, owned by J. F. Stodder of Burden, Kans. The lot consists of 20 choicely bred Bulls, from 12 to 20 months old, some of them 'show Bulls, and 40 Cows and Heifers, bred to, or with calves at side, by such bulls as Imported Wanderer's Last and Imported Aylesburg Duke.

Eor Catalogue of Shorthorns, address

Auctioneers: Cols. R. E. Edmonson, J. W. Sparks, Lafe Burger.

For Catalogue of Herefords, address

J. F. Stodder, Burden, Kansas. C. A. Stannard, Emporia, Kansas

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PUBLIC SALE OF MATCHLESS POLAND-CHINAS

Royal Queens From the Invincible Herd

FROM WINN & MASTIN'S WORLD FAMOUS HERD AT MASTIN, KANSAS, ON FEBRUARY 6, 1903. . .

Of 50 head of yearlings and 2-year-old sows sired by the imperial cabinet of sweepstake boars, Proud Perfection, Corrector, Perfect I Know, Keep On, Chief Perfection 2d, Perfect Perfection, Missouri Sunshine, Ideal Sunshine, Missouri's Black Chief, and other noted boars. Sows bred to MISCHIEF MAKER, the sweepstake boar at both Iowa and also at American Royal this year, and sired by a sweepstake boar; also to Proud Perfection, Corrector, Corrected, Missouri's Sunshine, Lamplighter, Gay Monarch, the greatest living son of Perfect I Know.

The Show Blood of Herd on Tap.

The Whole Herd is Immunized With De Vaux' Antitoxin.

This bunch of sows have never been equalled in evenness by us before and you know we have had pretty good ones. They are bred for February and March farrow. They will be in the finest possible shape to do buyers greatest good. Everybody cordially invited to be present. Write for catalogue for full particulars and mention Kansas Farmer.

SPECIAL NOTICE!

There will be a Special Train which will leave the Union Depot at Kansas City at 10 a.m. Friday, February 6, over the Frisco Railroad for the farm and sale. It will return to Kansas City immediately after the sale. This train will be chartered at our expense.

GEO. M. CANTRALL, CLERK. 4. O. Correll, Aucts. WINN & MASTIN, Mastin, Kansas.

A GOOD TIME

To think about your WINDMILL is before you buy it

If you get THE DEMPSTER

You won't have to think about it so much afterwards. Made in 6, 8, 10, 12 and 16 foot sizes. Vaneless and Solid Wheel Mills. We also make

BUILT FOR HARD, HONEST, EVERYDAY WORK. If your dealer is not posted, write us at Beatrice, or Dempster Mill Mfg. Co. Omaha, Neb., Kansas City, Mo., Sloux Falls, S. D.

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y reader of this paper. Nomeney in advance; rery low cest; littre guarantee. COSTS ALMOST NOTHING compared with set all other treatments. Cures when all other electric helts. most all other treatments. Cures when all other free them, appliances and remedies fail. QUIOK CURE for m. han 50 alments. Only SURE CURE for all nervous diseases, weaknesses and disorders. For complete seale. confidential catalogue, cut this ad, out and mail to us. SEARS, ROEBUCK & CO., CHICAGO.

FARMERS

who wish to better their conditions are advised to write for a descriptive pamphlet and map of Mary-land, which is being sent out free of charge by THE STATE BURRAU OF IMMIGRATION OF MARYLAND.

Address Mr. H. Badenhoop, Secretary, Merchants Nat'l Bank Bldg., Baltimere, Md

Farms and Ranches.

We have in central and western Kansas, all kinds of farm and ranch property, large and small, improved and unimproved, for sale. In many cases we can make a desirable exchange. State what you have for sale or what you wish to buy, and we can accommodate almost any kind of a realty deal. Write for our list of bargains. All correspondence will receive our prompt attention. Address

E. C. PREBLE LOAN CO.

CUBA, REPUBLIC COUNTY, KANSAS.

AN IDEAL SALE

SHORTHORN CATTLE

At Kansas City, February 10 and 11, 1903 At the Kansas City, Mo. Stock Yards Sale Pavilion.

Where Will You Be On Those Dates? Make No Other Dates. If Not. Why Not? Because!! The "Bone and Sinew" of the Shorthorn Breeding Fraternity Will Be Present and "Whosoever Will May Come," Because!!! It is An "Even Break" Offering from Two Champion Shorthorn Herds of America.

NO FANCY PR CES EXPECTED. - - - BUYERS' OWN PRICES WILL TAKE THE CATTLE

On Tuesday, February 10, 1903, T. J. WORNALL & SON

Will sell 49 Cows and Heifers and 10 Bulls from the Grassland Herd of Shorthorns, comprising 23 Scotch cattle and the balance, Bates and Scotchtopped Bates and American families. It will be the best high-class offering of Grassland Shorthorns ever made. For Catalogue, address

T. J. Wornall & Son, Liberty, Mo.



On Wednesday, Feb'y 11, 1903, COL. G. M. CASEY

Owner of Tebo Lawn Herd of Shorthorns will make his first public auction from this Celebrated American herd-the Great Champion Shorthorn Herd for 1902. Over 50 head, including 9 young Bulls, 21 Cows with calves at foot, balance of breeding age guaranteed safe in calf, 12 bred to Choice Goods. For Catalogue, address

E. B. Mitchell, Mgr. Tebo Lawn Herd,

Cols. F. M. Woods, Carey Jones, R. L. Harriman, W. A. White, Auctioneers

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..PUBLIC SALE..

REGISTERED

SHORTHORNS

Blue Grass Herd of J. S. McIntosh Eudora, Kansas.

To be held at Manhattan, Kansas, Monday, February the 16th, 1903.



A Choice and Select draft of 50 head of young stock selected out of a herd of 135 head. The offering consists of 47 Cows and Heifers and those of breeding age will have calves at foot or safe in calf to the noted Scotch herd-bull, Color Bearer 127045. Three bulls of serviceable age, splendid individuals, are also included in the offering. Of the 33 cows, 26 will have calves at foot. The entire female offering are splendid individuals and the cows and heifers will weigh from 1,400 to 1,700 pounds and the entire lot will average 1,400 pounds or better.

This sale will dedicate the new Sale Pavilion erected by C. P. Dewey & Co., at Manhattan. For Catalogues, address

J. S. McINTOSH, Stock Yards, KANSAS CITY

Auctioneers: Col. Jas. W. Sparks, Marshall, Mo. L. R. Brady, Manhattan, Kans.

BERKSHIRES BRED SOW SALE! FRIDAY, FEBRUARY 6, 1903. THE GREAT-MARKET FOR

THE GREAT MARKET FOR

... Recorded Berkshires...

AT KANSAS CITY, MISSOURI, will be supplied with 60 head of Choicely Bred Berkshire Sows, bred to the great boars in use in the herds of the following well known breeders:

CHAS. E. SUTTON Russell, Kans EVAN DAVIES Keytesville, Mo . F. CORBIN

Hodge, Mo BERT M. BARNETT J. M. BAUGHER

Anson, Mo O. P., UPDEGRAFF Topeka, Kans High-Class and Top-Bred

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REMEMBER THE TIME AND PLACE CHAS. G. MILLS OF THE PUBLIC SALE OF

W. E. BRADFORD WM. SCHAEFER

Brazilton, Kans

J. W. WAMPLER

Fontana, Kans

Pleasant Hill, Mo JOSEPH LYTLE Garnett, Kans

Berkshire Swine,

TO BE SOLD IN THE NEW SALE PAVILION OF THE KANSAS CITY STOCK YARDS, KANSAS CITY, MO.,

Friday, February 6, 1903.

Friday, February 6, 1903.

Sale commences promptly at 10 o'clock a. m., under the auspices of the
American Berkshire Association.

60=Head of Berkshires of Extra Quality==60

WILL BE SOLD, TO THE HIGHEST IBIDDER.

This sale will consist largely of Sows bred to the best boars in the noted herds of the breeders named above. For information about the stock, address the consignors or the Auctioneer, Col. J. W. Sparks, Marshall, Mo., and for Catalogues, address the Clerk of the sale, CHARLES F. MILLS,

Secretary of the American Berkshire Association, Springfield, Illinois.