

# KANSAS FARMER

Volume XLVI. Number 1

TOPEKA, KANSAS, JANUARY 2, 1908

Established 1863. \$1 a Year

## Forty-Five Years of Usefulness

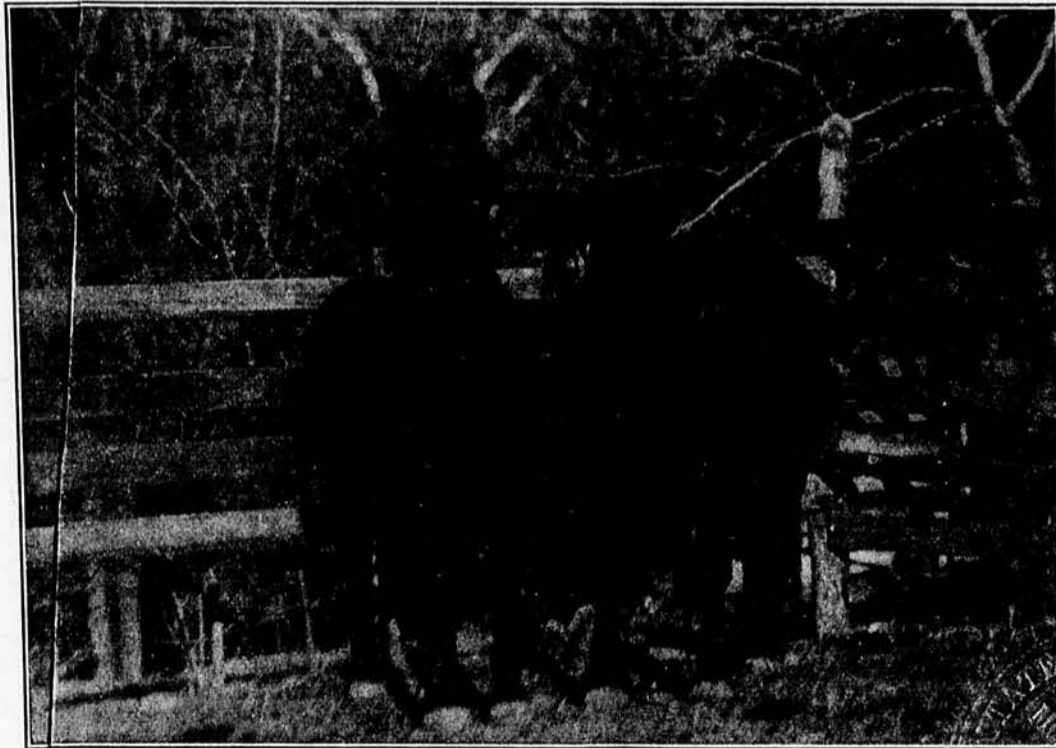
In May, 1863, a little paper of 32 pages, each measuring six by nine inches, appeared at Topeka under the name, "THE KANSAS FARMER." It was a monthly and was under the auspices of the State Agricultural Society. F. G. Adams, secretary of the society, was its editor. The purpose in starting the publication was the promotion of a State fair; but, under the editorship of Judge Adams, it was inevitable that it should enter upon a work of more diversified usefulness than that which called it into being. The first number was a really valuable agricultural journal. Its successors were worthy. The subscription was fifty cents a year. This first number contained three advertisements covering an aggregate space of three inches single column.

The files of this little paper are incomplete and

it is believed that its publication was suspended at some time during the year 1869.

January 1, 1865, "THE KANSAS FARMER No. 1, Vol. 3, John S. Brown, Editor," appeared with a Lawrence date line. It was a 16-page paper with three columns to the page. It was continued as a monthly. The subscription was \$1.50 a year. The advertising patronage under Rev. John S. Brown's management started with about one page and increased to over five pages.

In September, 1867, THE KANSAS FARMER was bought by George T. Anthony, afterwards Governor of Kansas, who removed it to Leavenworth. George A. Crawford was associate editor and traveling agent. The pages were enlarged to 9 by 14 inches and increased in number to 36. It was a vigorous exponent of Kansas interests in general



Brilliane and Harriet, one of the good pairs of young mares included in the dissolution sale of J. W. & J. Robison's Percherons at Wichita, Kans., J. W. Robison retiring from the business.

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# KANSAS FARMER.

Established in 1868.

Published every Thursday by  
THE KANSAS FARMER COMPANY  
(Incorporated, January 1906).  
Topeka, Kansas

SUBSCRIPTION PRICE: \$1.00 A YEAR

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

## OFFICERS.

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Vice President and General Agent.....I. D. GRAHAM  
Secretary and Manager.....H. A. HEATH  
Treasurer.....JOHN R. MULVANE

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## ADVERTISING RATES.

Display advertising, 20 cents per line, agate (fourteen lines to the inch). Continuous orders, run of the paper, 15 cents per agate line.  
Special reading notices, 30 cents per line.  
Special rates for breeders of pure-bred stock.  
Special Want Column advertisements, six words per line, 10 cents per week. Cash with the order.  
Electro should 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.  
All new advertising orders intended for the current week should reach this office not later than Monday.  
Change of copy for regular advertisement should reach this office not later than Saturday previous to publication.  
Every advertiser will receive a copy of the paper free, during the publication of the advertisement.  
Address all communications to

THE KANSAS FARMER CO.,  
625 Jackson St., Topeka, Kansas

and of Kansas farming in particular.

In 1868 the Legislature enacted a statute which requires that notice of all strays shall be published in THE KANSAS FARMER and that THE KANSAS FARMER shall be kept on file in the office of every county clerk in the State. This law is still in force.

In 1869 the name of Geo. A. Crawford disappeared from the management.

In 1871 A. G. Chase became associate editor, Miss M. E. Murtfelt entomological editor, and Dr. B. S. Chase veterinary editor.

In 1872 THE KANSAS FARMER became a bi-monthly.

February 1, 1873, M. S. Grant and J. C. Ketcherson became editors and proprietors, and Dr. A. G. Chase, editor.

December 15, 1873, the purchase of the paper by J. K. Hudson and his purpose to remove it to Topeka were announced.

On the first Wednesday in 1874 THE KANSAS FARMER made its first appearance as a weekly, published at Topeka, with J. K. Hudson as editor and proprietor. Its pages, 14 by 21 inches, were eight in number. The "Literary and Domestic" departments were edited by Mrs. Hudson.

The subscription was raised to \$2. To say that the paper was vigorous is putting it mildly. It was full of fight and immediately became a factor not only in Kansas agriculture but in public affairs of all kinds. The several interests were treated under department heads, a feature which is preserved into the present. The Patrons of Husbandry were then organizing with great rapidity and their interests were warmly espoused by the paper.

During the campaign of 1874 Major Hudson was nominated for Congress on the "reform ticket." He went into the campaign with great earnestness, leaving the paper to the able management of Mrs. Hudson.

In May, 1878, E. E. Ewing purchased an interest and "Hudson & Ewing, editors and proprietors," appeared at the head of the paper.

On December 10, 1879, a reduction of the subscription to \$1.50 was announced.

On February 4, 1880, E. E. Ewing bought Major Hudson's interest in THE KANSAS FARMER and became editor and proprietor, while Major Hudson devoted his energies to the "Daily and Weekly Capital," which had been

started in THE KANSAS FARMER office. Mrs. Hudson's name also disappeared from the head of the "Literary and Domestic" department.

On September 15, 1881, E. E. Ewing sold the paper to The Kansas Farmer Company, consisting of H. C. DeMott, of Bloomington, Ill., and Manford J. Ricks, of Springfield, Ill. The paper was managed by J. K. Hudson for a brief time.

On September 21, 1881, H. A. Heath became general agent and special correspondent and W. A. Peffer, afterwards elected to the United States Senate, became editor and foreman.

On March 9, 1882, Mr. Ricks died and the sole ownership passed to Mr. DeMotte. The paper was conducted by H. A. Heath and W. A. Peffer.

On June 4, 1882, the subscription price was reduced to \$1.

July 5, 1882, the paper passed to a company consisting of H. C. DeMotte, R. R. Brown, and H. A. Heath. Mr. Brown was treasurer and business manager, Mr. Heath was general agent, and Mr. Peffer was editor.

With the beginning of 1883 the pages were increased to sixteen in number and the size was changed to 11 by 15 inches.

In September, 1885, Mr. Brown retired from the company and H. A. Heath became general business manager.

In June, 1878, S. J. Crawford and J. B. McAfee purchased an undivided interest in THE KANSAS FARMER and Mr. DeMotte retired. Later in this year D. C. Nellis became bookkeeper for the company and presently acquired an interest.

January, 1890, the size of the pages was enlarged to 11 by 16 inches.

In January, 1891, W. A. Peffer was elected to the United States Senate and retired from the editorship.

November 4, 1891, E. B. Cowgill bought Governor Crawford's interest and became editor. The company was reorganized with the following officers:

H. A. Heath, president; E. B. Cowgill, vice-president; D. C. Nellis, secretary; J. B. McAfee, treasurer.

In 1892 the pressure of advertisements made it necessary to increase the number of pages to twenty during the busy season.

In 1893 it became necessary frequently to use thirty-two pages.

In October, 1901, I. D. Graham entered the employ of THE KANSAS FARMER as a field man.

January 21, 1906, Mr. McAfee and Mr. Nellis retired. The Kansas Farmer Company was incorporated with a paid-up capital of \$50,000, and with the following officers:

E. B. Cowgill, president and editor; I. D. Graham, vice-president and general agent; H. A. Heath, secretary and manager; John R. Mulvane, treasurer.

The total number of pages printed in 1906 was 1416. The volume for 1907 also contains 1416 pages.

This brief outline of the history of THE KANSAS FARMER is but an index to the work that has been done during the last forty-five years through the columns of the paper to help the people who have made the Kansas of today. Except during a brief period the spirit of THE KANSAS FARMER has been optimistic. It has believed in Kansas and its possibilities and in its people. There has been no wild exaggerated enthusiasm, but a level-headed labor for the advancement of the interests of the farm and the farm home.

Improvements in plants, animals, machinery, and methods have been heralded and promoted. Organizations whose purpose has been to rationally benefit conditions have had the warm support of the paper. Good fellowship and good will among all people has been advised. The aim has been to be always honest, well informed, and energetic; to give good measure, and to earn and to receive the appreciation and compensation due for work well done.

On this record and on this platform THE KANSAS FARMER wishes and expects for its many thousands of readers a happy and prosperous year of intelligent endeavor during 1908.

A report from the treasurer of the Santa Fe shows that during the

panic this great railroad pursued the policy of depositing its daily receipts in banks along its lines instead of having them sent to the treasurer at headquarters. This was a great assistance in keeping money in circulation throughout the country served by the Santa Fe.

## RATION OF CORN AND LINSEED-MEAL.

EDITOR KANSAS FARMER:—Your discussion of feeding questions of corn and alfalfa and of corn and shorts, in a recent number of your paper, is interesting. Now will you be kind enough to carry the information a little farther and tell us how corn and oil-meal will work out? I refer to linseed-oil-meal (old process). Corn costs about 50 cents per bushel and oil-meal from \$40 to \$45 per ton.

We are feeding in that way and so far it looks like the best combination that we have made to go with our high-priced corn. J. G. SUPPLE.

Morton County.  
The average digestible nutrients in 100 pounds of these feeds are as follows:

	Protein lbs.	Carbohy- drates, lbs.	Fats, lbs.	Total digestible, lbs.
Corn.....	7.8	66.7	4.3	78.8
Linseed-meal....	29.3	32.7	7.0	69.0

Compared with corn at 50 cents per bushel, or about 86 cents per 100 pounds, the theoretical nutritive value of linseed-meal is \$1.42 per 100 pounds or \$28.40 per ton. It is therefore apparent that at \$40 to \$45 per ton the linseed-meal can be fed profitably only to the extent of balancing the corn ration.

Tables have been prepared giving results of numerous investigations instituted for the purpose of determining the most profitable rations to be fed to stock of various kinds and ages. From the results obtained, the consensus of opinion is that certain ratios between the protein and the carbonaceous nutrients are desirable. In stating these ratios it is usual to estimate the fatty nutrients as worth 2.25 as much per pound as the carbohydrates. By multiplying the weight of the fats in a feed by 2.25, adding the product to the weight of the carbohydrates and dividing the same by the weight of the protein, a quotient is obtained which is called the nutritive ratio.

By this process it may be found that the nutritive ratios of the feeds under consideration are:

Corn.....1 protein to 9.8 carbonaceous.  
Linseed-meal....1 protein to 1.67 carbonaceous.

A fairly satisfactory average ratio for feed for farm animals is about 1 protein to 6 carbonaceous.

It will be seen that there is a great difference between the nutritive ratios of these two feeds and that the ratio desired lies between them. The desired ratio can be obtained by using corn and linseed-meal in suitable proportions.

Methods for computing these proportions have been worked out and published by Prof. J. T. Willard, chemist of the Kansas Agricultural College, and by the editor of THE KANSAS FARMER. Without describing these methods here it will be sufficient to state that a ration having a nutritive ratio of almost exactly 1 to 6 may be made from corn and linseed-meal by using

Corn.....2200 pounds,  
Linseed-meal.....2000 pounds.

This will make an expensive ration, and, since the linseed-meal is the most expensive part, it may be worth while to experiment with a less proportion of the linseed-meal.

## FOR BETTER COUNTRY SCHOOLS.

The Kansas State Teachers' Association, which held its annual meeting at Topeka last week, took a pronounced position in favor of better educational facilities in the country schools. Under the able leadership of State Superintendent Fairchild, the advocates of fairly well defined plans for consolidating, enlarging, and improving country schools are beginning to see results.

The fact that a very large proportion of the men and women who must do the world's work, must meet the competition of an increasingly competitive age, must take part in the forma-

tion and shaping of the institutions of society, must contribute to the greatness and success or must share in the responsibility for the decadence and decay of the American Republic—the fact that these receive their school training in the country schools makes the problem of keeping the country schools up with the times one of prime importance.

Without doubt the atmosphere and surroundings of the best country schools are such as tend to develop strong men and women. If to this advantage there shall be added such improvements as shall bring the methods and the teaching of the country schools on a par with these features of the best city schools, one of the most serious problems of life in the country will have been solved.

The gospel of improved country schools is worthy of the advocacy it is receiving.

## ITS MOST SUCCESSFUL YEAR.

The Kansas City Drovers' Telegram of January 1, presents the following summary:

"In almost every department during the year 1907 the business at the Kansas City stock yards shows a gain over 1906, and in receipts of cattle, calves, and total carloads of live stock, the year 1907 exceeds any previous year since the yards were opened, in 1871. A total of 2,380,000 cattle have been received, an average of almost 8,000 head every business day of the year. This does not include 287,000 head of calves received. These totals are greater by 85,000 cattle and 27,000 calves than were ever received at Kansas City in any year before. Receipts of hogs for 1907 aggregate 2,915,000 head, heaviest since the drouth year 191, sheep 1,585,000 head, and 63,000 horses and mules.

"To transport all this stock to market required 145,000 stock cars, equivalent to a train of live stock 1,150 miles long, or equal to three trains of live stock extending completely across the State of Kansas east and west or to one train of live stock reaching almost to Salt Lake City. In other words, about 20 carloads of live stock, on an average, have been unloaded at the Kansas City market every hour, night and day, during the business year of 1907, the money value of which approximates \$140,000,000 for the year, an average daily business of \$450,000 for each business day. Although 1907 is in many respects the banner year of the Kansas City live stock market, every indication points to still greater achievements in the future and it is only a question of a few years when his market will take its position at the head of the live-stock markets of the world."

## A MORTGAGE QUESTION.

EDITOR KANSAS FARMER:—A holds mortgage of \$2,000 due January 1, 1908, on the land owned by B and insists that it must be paid when due. How soon can A force a sale? What our redemption law, if any? Graham County. B. F. WILSON.

The general statement is that it takes two years to foreclose a mortgage and get possession of the property if the suit is resisted. This may vary somewhat. In Graham County the terms of court convene of the first Tuesday in February and the third Tuesday in May and September. The time allowed for pleadings is such that this case will not be up for hearing during the February term. If B will employ an attorney, there would probably be little difficulty in having the hearing put off at the May term. Judgment were rendered at the September term the land might be sold in October, possibly in September. B has right of redemption and possession for fourteen months from the date of sale. It may be cheaper and otherwise more desirable for B to allow the matter to proceed more rapidly than above stated. Thus, a good many mortgage notes specify a high rate of interest from the date when the mortgage debt becomes due to the date of sale. Not a few place this rate at 10 percent. But, from the date of sale to the expiration of the redemption



period—eighteen months—the rate of interest is only 6 per cent.

Now, if B desires to save attorney's fees, costs, and, perhaps, interest, he may agree with the mortgagee that he shall be allowed to take judgment. Under such an agreement it may be possible to have the judgment rendered and the sale made in February, 1908. In this case B would have the use of the money at 6 per cent until August, 1909, by which date he might be able to redeem the land by placing a new mortgage, or otherwise.

There are two exceptions to the general right of redemption within eighteen months of the date of sale of land under mortgage. (1) By abandoning the property, or not occupying it in good faith, the mortgagor reduces the time for redemption to six months from date of sale. (2) Where the lien is for purchase money, of which not one-third has been paid the time for redemption is reduced to six months.

With full knowledge of the rights of each, A and B should be able to arrive at an equitable agreement under which to proceed.

**DAMAGES TO STOCK IN SHIPMENT.**

EDITOR KANSAS FARMER:—On Tuesday, July 30, we loaded one car of cattle at Hudson, Kans. The train was due about 5 a. m., but did not arrive until 10 a. m. From Hudson the cattle were taken to Conway Springs and were laid over so they did not reach Kansas City until Thursday, August 1. The delay in shipment caused a great loss in weight. We filed claim, after returns came, for \$98.78 loss. On November 27 we received notice and papers to settle for \$11.45. We refused to settle for such an amount. What step will be best to take? Can we take the matter up with the State attorney?

The stock was billed in father's name. I, his son, attended to the business as he was confined to his bed and died the 4th of August. We have no administrator. A. A. B. Stafford County.

In settling an estate it is almost necessary to have an administrator appointed by the probate court. This need not involve a great deal of expense. See the Probate Judge about it. The claim against the railroad company can be pushed only in the name of the administrator.

If not willing to accept the settlement offered by the railroad company, it will be necessary to bring suit. This will render necessary the services of an attorney who will advise as to the proceedings.

**THE STATE HORTICULTURAL SOCIETY.**

The annual meeting of the Kansas State Horticultural Society was held at the State Capitol, Topeka, last week. Notwithstanding the shortage in the 1907 fruit crop, the attendance was good. A few of the old familiar faces were missed, but there were new ones to take their places.

The new Secretary, Walter Wellhouse, worked in the traces like an old stager. Ex-Secretary W. H. Barnes was present with his good cheer and energy, and enjoyed the smooth working of the machinery in other hands as much as if he himself had been at the helm.

The spirit of hopefulness for the future—a spirit which has done much for Kansas in times past—was prevalent. Indeed, the prospects for the crop of 1908 could scarcely be better than the close of 1907 left them.

THE KANSAS FARMER purposes to publish a special edition in the near future in which the full proceedings of this great meeting will receive merited attention.

A movement is on foot to stop the petty steal of 100 pounds of each car of wheat at Kansas City. Under the claim that each car of wheat contained about 100 pounds of dirt, chaff, etc., it has been customary to deduct 100 pounds from the actual weight of the wheat as shown by the scales. Of course, allowance had previously been made in the grading for every-

thing affecting the value of the wheat so that the 100-pound deduction amounted to a steal. Shippers have also suffered from what is called a shrinkage allowance. It has been the custom for railroad companies in adjusting claims on shipments of wheat to deduct one-half of one per cent for alleged natural shrinkage of the grain. The Rock Island traffic manager has announced that hereafter there will be no fixed reduction for shrinkage. These reforms are to the ultimate advantage of the producer. Every reduction in the cost of transferring products from producer to consumer is to the advantage of these important parties to the transaction.

**MAY MAKE PARTITION FENCE HOG-TIGHT.**

EDITOR KANSAS FARMER:—Can a fellow put up a wire fence along the line fence that belongs to the other fellow and hold his wire? I wish to put up a hog-wire fence and the other fellow does not care for one, so I will have to put it up myself, if I have such a fence. Wilson County. D. A. TAYLOR.

Chapter 264, Sec. 1 of the laws of 1905 provides that whenever any owner of land inclosed in part by a partition fence desires to make hog-tight any part of the fence inclosing his premises, constructed or maintained by the owner of the adjoining land, he may attach to such partition fence, in a secure and workmanlike manner, woven wire at least two feet in height so as to prevent hogs from getting through such fence.

**PILES CURED IN 6 TO 14 DAYS.**  
PAZO OINTMENT is guaranteed to cure any case of Itching, Blind, Bleeding or Protruding Piles in 6 to 14 days or money refunded. 50c

**Miscellany**

**The Shawnee Alfalfa Club.**

The regular monthly meeting of the Shawnee Alfalfa Club was held in the rooms of the Commercial Club on Saturday afternoon, December 28. The attendance was large and the meeting was one of the best that has been held by the club, in spite of the fact that one of the speakers failed to arrive. Among the topics of special interest under discussion was that of alfalfa pests, especially the gophers.

E. B. Merriam of Topeka started the talk against the animal which is said to be becoming such a pest in alfalfa meadows. "I went up to Clay County on the train yesterday," Mr. Merriam said, "and so far as alfalfa farms are concerned, it seemed to me that 80 per cent of them showed that their owners were being troubled with gophers. I heard on all sides complaints on this score. And now it seems to me that something will have to be done to check the work of these gophers. On a tract of alfalfa on my farm near Topeka the gophers started and within one week it seemed that they had almost ruined several acres of it. It seems to me that the counties will have to offer a bounty for the killing of these little pests."

Mr. Merriam's remarks were heard with a great deal of interest. They showed that other alfalfa growers had suffered from this source. S. M. Crow said: "On my place not far from here the gophers bothered me seriously. I got a shotgun and some poison, determined that I should check their progress. I killed a dozen one day and eight another. About the same number I succeeded in poisoning to death. But that didn't seem to check them. Other gophers seemed to come in to bury those that were dead. They seemed to multiply in arithmetic progression."

Philip Lux said that he believed the offering of a bounty by the counties of the State would have a beneficial effect. William Van Orsdal, a fruit grower, said he had found it difficult to rid his place of the little pests, but that he had placed strychnine on a potato and in that way had succeeded in checking them.

Upon motion of H. W. McAfee it was determined that the January

meeting of the club should be devoted to the consideration of ways and means of ridding alfalfa fields of gophers and other pests.

Dr. Frank L. DeWolf, chief inspector at Wolff's packing house, this city, for the United States Bureau of Animal Industry, gave one of the interesting talks of the afternoon upon the importance of alfalfa as a food for swine. He took for the basis of his talk 107 hogs which were marketed in this city by Richard Hodgins and Alfred Sage. They were grown in this county and he said were of exceptionally fine quality owing to the ration of alfalfa upon which they had fed. He said that up to the middle of September they were pastured on alfalfa and after that they were fed upon corn. He said they averaged 325 pounds weight; that the post mortem examination showed their vital organs to be free from parasites or disease of any sort; that the quality of their meat was much above that of animals grown entirely upon corn; that there was an abundance of fat in the form of lard; that the bones were harder and larger than usually was the case, and that the lean was genuine. Dr. De Wolf praised highly the merits of alfalfa as a food for hogs.

The matter of alfalfa "heaving" and being destroyed by severe cold in winter was discussed by F. P. Rude, Philip Lux, Henry Wallace, F. A. Kiene, Jr., William Van Orsdal, S. M. Crow, Dr. DeWolf, Scott Kelsey, and others. F. P. Bradley told of sowing alfalfa in February while the frost was yet in the ground, after he had failed in securing a "stand" of the plant in the fall. He said he did not harrow it but that he had attained good success. B. B. Irwin of Hoyt told of sowing and of getting only a rather poor "stand" of the plant. Upon resolution of Dr. De Wolf, adopted, it was provided that Mr. Irwin should report fully his ill success to the experiment station, Manhattan, and that the answer should be published.

Fred H. Webster of the Topeka Alfalfa Milling Company, read a paper descriptive of the work of this institution. At the close of this paper it was decided by resolution that the experiment station at Manhattan should be asked to make a statement as to the feeding value of alfalfa meal.

Mr. Laughlin of the Daily Capital rendered very efficient service to the club by his very excellent report of the meeting.

By vote the Secretary was instructed to submit the very peculiar conditions which prevail in the Alfalfa field of Mr. Irwin to Prof. A. M. Ten Eyck for an expert opinion and also to get an opinion as to the true feeding value of alfalfa meal from the authorities of the State Agricultural College and to publish both in THE KANSAS FARMER as matters of general interest to all Kansas farmers and especially to members of this club.

By vote the Secretary was instructed to convey to Hon. Bradford Miller, our worthy president who is now confined to a bed of sickness, the expression of the sympathy of the club and of regret that he could not be present at this meeting.

The regular meetings of this club are held on the last Saturday afternoon of each month at 2 o'clock in the hall belonging to the Commercial Club at 625 Kansas Avenue and everybody is invited.

**Only One "BROMO QUININE"**

That is LAXATIVE BROMO QUININE. Look for the signature of E. W. GROVE. Used the World over to Cure a Cold in One Day. 25c.

**Bread and the Eaters.**

The New York Journal of Commerce presents a thoughtful review of the world's production of wheat and the demands of the increasing millions of eaters. This discussion bears strong internal evidence of the work of one of the most accurately informed statisticians of this country. Following is the Journal's article:

"The fact has been obvious for some years that the number of 'bread-eaters' was rapidly overtaking the world's available supply of wheat. The advance in the average price of the cereal during the last ten years would

be sufficient to demonstrate that fact if demonstration were needed. Ten years ago the number of bread-eaters was estimated at 510 millions; to-day it is certainly not less than 570 millions. When it is announced, therefore, that the wheat crop of 1907 will fall short of that of 1906 by 400,000,000 bushels it means that there is three-quarters of a bushel less for each consumer than there was a year ago. The crop of 1906, reckoned at 411,000,000 quarters, supplied an average of five and three-quarter bushels per head to the bread-eaters of the world. This is three-quarters of a bushel less than the average per capita consumption of wheat in the United States. From the beginning of last August to the end of next July it is calculated that the wheat-importing countries of Europe will require 63,000,000 quarters, whereas it seems probable that the wheat-exporting countries of the world will have a surplus of only 61,600,000 quarters, making a deficiency of 1,400,000 quarters. The increase of wheat acreage the world over has been very slight, if it exists at all. From the 52 million acres of six years ago the United States has come down to 48 millions, and statistics do not warrant the belief that the newer wheat-growing countries have made up for the loss. In the older countries, which are considerable wheat-growers, production has been at a standstill or has shown an actual decrease. This is notably so in the case of France.

"It is a very interesting process, that of the displacement of wheat by other crops. Relatively to population the wheat acreage and production of the United States probably reached their maximum in 1884. The westward movement of wheat-growing is very well illustrated by the tables of acreage from 1875 to 1889. In the North Atlantic group of States there was an increase of 33 per cent between 1875 and 1880, but for the next five years the increase was hardly perceptible, and for the five years following there was a decrease of 12½ per cent. The addition to the acreage in the Lake States was 50 per cent between 1875 and 1880, but by 1889 the area was 20 per cent less than the maximum. In the States of the Missouri Valley, exclusive of the Dakotas, the enlargement of area was fully 60 per cent between 1875 and 1880, slightly higher by 1884, but there was a shrinkage of 33 per cent by 1889. The Southern States, including Arkansas and Texas, showed an increase of about 20 per cent between 1875 and 1884, but thereafter rapidly declined. The increase in the Pacific States came before 1884 and culminated in that year, remaining stationary for the next five years, and subsequently declining. The Dakotas showed the extraordinary gain from 10,000 acres devoted to wheat-growing in 1875 to 4,500,000 acres in 1889. But the Western expansion, of which this is perhaps the most remarkable chapter, has been accompanied by a contraction of wheat acreage in the older States. In the seven years between 1880 and 1887, 2,296,240 acres of wheat fields of Ohio, Michigan, Indiana, Illinois, and Wisconsin were converted into meadows, as were 592,065 acres of the new land brought into cultivation, the remainder of the new land, amounting to 4,095,362 acres, being employed in the production of rye, oats, barley, buckwheat, potatoes, and tobacco. This is merely a duplication of a process with which the States farther East had already been familiar and which first overtook the Middle West twenty years ago. It has advanced considerably beyond that area since 1887.

"When Sir William Crokes directed the attention of the world to the general question of wheat consumption and production some eight years ago, there was a good deal of discussion as to what contribution, if any, our farmers would be able to make to the wheat supply of other countries when provision came to be demanded for the requirements of a home population of 130 millions. It was estimated that the census of 1930 would show a figure at least as high as this, and that such a population would require



for its immediate wants a wheat crop of 700 million bushels, without a bushel for export; an oat crop of 1,250,000,000, a corn crop of 3,450,000,000 bushels, and a hay crop of 100,000,000 tons, with cotton and wool, fruit and vegetables, dairy and poultry products, meats and innumerable minor commodities in corresponding proportions. The area necessary for the production of the three principal cereals alone was placed at over 15 per cent greater than the total acreage devoted in 1898 to grain, cotton, and hay, while the mere addition of the two last-mentioned products and of the minor cereals would call for an acreage exceeding the total area of improved lands in farms at that time. That brought the discussion down to the question of whether there was any reasonable prospect of securing the necessary extension in farm areas to supply the needs of our population in 1930. It was pointed out that amazing as had been the increase in the farm area of the country during the thirty years preceding 1898, it had not been sufficient to keep pace with the growth of population. The addition of 128,300,000 acres, or 31.48 per cent, to the area in farms between 1870 and 1880 only increased the area per capita of population from 10.57 to 10.69 acres. By 1890 the area, notwithstanding a further addition of 87,100,000 acres, or 16.25 per cent, amounted to 9.95 acres per capita, and the census of 1900 found it under nine acres. The great question of food supply is therefore one that is likely to touch us more nearly in the immediate future than our people generally realize. The fact is one calculated to give a new impetus to efforts for increasing the productivity of the farm land of the country of which a potential enlargement is certainly possible in this way.

The Brute.

[A subscriber asks the publication in THE KANSAS FARMER of some lines which first appeared in the Denver News and were copied in the Kansas Chief, then (May, 1875) edited and published by Sol Miller, at Troy, Doniphan County, Kansas. As a reminder of times that tried the souls of men and women, days that have not been seen in Kansas for a third of a century, these lines are here reproduced. They will be appreciated by the pioneers who were in Kansas in 1874.—EDITOR.]

The grasshopper;  
He cometh;  
He cometh numerously;  
He bringeth his family;  
Also his relatives;  
And his friends;  
Likewise his mother-in-law;  
And her friends;  
As well as all who hate her;  
And they are legion;  
The wisdom of man computeth them not;  
They nip the springing grass;  
They devour the fragrant onion sprout;  
And the savory celery;  
The wheat field is left desolate;  
And no green thing remaineth where the hopper hath been;  
And his pathway is the abomination of desolation;  
The ranchman mourneth for his green fields that were, but are not;  
Mayhap he sweareth;  
Possibly he saith audibly, and crieth aloud—damned;  
What careth the grasshopper?  
It troubleth him not.  
Ask the prophets of Kansas;  
And the wise men of Nebraska;  
And they will answer likewise;  
But the Relief Committee agent lifted up his voice and calleth the hopper blessed.  
The patriarch grasshopper cometh from the mythical western land, where the glorious orb of day sinks in roseate splendor to his evening couch;  
The realm of Brigham;  
The land of Mormons;  
Whence cometh many bad things, and some that are good.  
The hopper is one of them;  
Several of them;  
But he is not good.  
He cometh in the latter summer days;  
In sun darkening myrlands;  
As the winds come when forests are rended;  
As the waves come when navies are stranded.  
Like unto a Democratic victory.  
He alighteth on the potato vine;  
And on the fragrant tomato tree;  
And on the succulent roasting ear,  
Whilst it is yet in the milk and toothsome;  
And upon all other fruit of the field that cometh late into market;  
And they all disappear and are seen after that evil day no more forever.  
And the lady grasshopper maketh straightway her nest "down in the cornfield!"  
And in the wheat stubble;  
And upon the hillside;  
And all over the sandy plain;  
And everywhere else under the sun:

And she filleth the nest with eggs;  
And then she continueth to make nests  
and fill them with eggs, every day  
until the winter days cometh, and  
the ground freezeth hard, when no  
grasshopper can make nests.  
And the eggs, are they not ranch eggs?  
With double yolks?  
And warranted to hatch?  
Yea, verily, and the warranty is good.  
And the grasshopper's mate—what of  
him?  
Verily, I say unto you, he sitteth upon  
the sweet potato vine and singeth  
all the gladsome summer day.  
He climeth up the cornstalk and loppeth  
off its verdant branches;  
He taketh no heed for the morrow;  
Nor of the groans and curses of the  
irate ranchman.  
And in the hottest autumn days he  
leadeth the fisherman beside the bab-  
bling waters;  
And up the steep mountain side:  
And over the prickly pears;  
And through soap weeds;  
And among thorn bushes;  
And when at last the fisherman falls  
upon his knees and puts his hand  
on Mr. Hopper, where is he?  
Alas, he is not there;  
But he soareth aloft;  
And cracketh his heels together;  
And laugheth out of his left optic at the  
fisherman, who is seated on the  
hillside.  
Digging cactus thorns from his hands,  
And framing cuss words.  
Alas, he will never kneel any more.  
And when in the fullness of the time  
the wintry days have come,  
And galled his voice in death;  
With frost's icy mantle about him he  
goeth hence to his fathers;  
Content with the fitting close to a well-  
spent life.  
And happy in the reflection that he will  
live again, in his children.  
When gentle spring shall come again.  
And again.  
And again forever.  
In the eternal cycle of returning years.  
'Tis spring;  
Winter hath loosened his icy fetters;  
Robin redbreasts carol in the cotton-  
woods;  
The beechertilt trial is well on;  
Jenkins busieth himself writing par-  
dons;  
And genial sunshine again bathes the  
earth.  
Are those eggs spoiled?  
Not by a jug full.  
In the earliest warm sunny days,  
Forth come a few millions of the juve-  
nile hoppers.  
Tiny, mitey midgits;  
The pickets, the scouts, the avant cour-  
iers of countless hosts that will  
soon follow.  
Ye "honest ranchman" laugheth in his  
sleeve, and sayeth:  
"The hoppers are hatching; spring  
frosts and snows will fix them;"  
Alas, the fallacy of man's faith;  
The little hopper relies on Providence;  
And his reliance is sublime;  
It putteth the "shoddy" religion of man  
to shame;  
Drown him in floods that would have  
appalled Noah;  
Bury him in Arctic snows;  
Subject him to frosts that freezeth the  
ears of a brass monkey;  
Encase him in the heart of an iceberg;  
Let old boreas caress him with Chicago  
winds, or fondle him in his icy em-  
brace, the little martyr calmly folds  
his arms, draws up his nether limbs  
and waiteth;  
Waiteth for the next sunrise, when he  
cometh forth to breakfast, ray as a  
school girl, and with an appetite  
that is a positive luxury.  
You can't kill him;  
Neither can you scare him;  
Nor can he be discouraged;  
He dieth only of old age, and very late  
in the fall.

The Financial Crisis, Past and Present.

The recent flurry made many other-  
wise level-headed persons declare that  
a business collapse of the old-fash-  
ioned type was upon us. And now af-  
ter the recent clouds have rolled by,  
some of these people are predicting  
that the panic will come in 1908. Per-  
haps if they continue prophesying  
long enough prediction will overtake  
realization. After the most careful  
scrutiny of the situation which I can  
give, however, I confess that I can  
see no signs of an approaching col-  
lapse which will even remotely resem-  
ble those which came in 1818, 1837,  
1857, 1873, or 1893. In those years  
took place the financial cataclysms  
which have been popularly called pan-  
ics. Between each of these industrial  
and financial dislocations (as in 1825,  
1848, 1869, 1884, and 1890) came mild-  
er flurries.  
The scare which came in the latter  
half of 1907 belonged to the 1884 and  
1890 class. Its effects have already al-  
most disappeared, but it has given us  
lessons to learn. It emphasizes the  
necessity of getting, in some of our  
big insurance companies and other  
great corporations, more directors who  
direct, and for a few of our banks  
more examiners who examine. We  
need also a little more balance among  
our people so that they will not be  
stampeded by every clammy prophet  
who gets into the newspapers.  
Everybody who knows the causes  
of each of our panics, and who takes  
an intelligent survey of the present  
situation, will see that almost all  
those causes are missing.—From

"Why We Need not Fear a Panic," by  
James W. Van Cleave, in The Circle  
for January.

A Twentieth Century Cottage.

The design we illustrate this month  
is of a one-story, concrete-block house  
which has ample room in the second  
floor for three good chambers, if need-  
ed. The substantial porch, concrete  
sills and headstones of windows and  
doors, give this little home a well-  
built appearance.

The arrangement of rooms on first  
floor will warrant your particular at-  
tention as the careful study which has

upon receipt of 25 cents. The ideas  
and information which it contains will  
be found very valuable for those about  
to build or remodel their home. Ad-  
dress all letters to Home Building De-  
partment, Care THE KANSAS FARMER,  
Topeka, Kans.

OUR CLUB OFFERS.

For the accommodation of those of  
our readers who do not have ready  
access to large libraries or book  
stores and who desire good reading  
matter, THE KANSAS FARMER has  
opened this department.

We are prepared to furnish our



been given to this plan has produced  
a design that will bear your closest in-  
vestigation.

From the porch we enter the large,  
well-lighted living room which is sep-  
arated from the dining room by an  
arch. Sliding doors could be substitut-  
ed here if preferred. The kitchen has  
a direct connection with the dining  
room and a double cupboard is de-  
signed instead of a pantry. The small  
hall gives the bathroom an individual

readers with any book, magazine or  
newspaper at publisher's rates, post-  
age prepaid. We are prepared to  
make reductions in prices on very  
many publications when combined  
with a subscription to THE KANSAS  
FARMER.

In this issue of THE KANSAS FARM-  
ER we give a number of such combina-  
tions as illustrative of what we can  
offer. Subscribers to this paper will  
certainly appreciate these offers and  
act accordingly.

Order at once and have your sub-  
scription start at any time you de-  
sire.

Address all orders to THE KANSAS  
FARMER COMPANY, Topeka, Kans.

- Our Club Offer No. 1, \$1.40.—Kansas Farmer, Green's Fruit Grower, Vick's Family Magazine, regular price, \$2.50.
  - Our Club Offer No. 2, \$1.60.—Kansas Farmer and the American Boy, regular price, \$2.00.
  - Our Club Offer No. 3, \$1.85.—Kansas Farmer, Hoard's Dairyman, Weekly Capital, Woman's Magazine, regular price, \$3.50.
  - Our Club Offer No. 4, \$1.90.—Kansas Farmer and Dr. Mayo's new book, "The Care of Animals," regular price, \$2.25.
  - Our Club Offer No. 5, \$2.00.—Kansas Farmer, The Commoner, the Woman's Magazine, and Western Fruit Grower, regular price, \$3.00.
  - Our Club Offer No. 6, \$2.75.—Kansas Farmer, Youth's Companion (new), and Western Fruit Grower, regular price, \$3.75.
  - Our Club Offer No. 7, \$2.00.—Kansas Farmer and the Breeder's Gazette, regular price, \$3.00.
  - Our Club Offer No. 8, \$3.50.—Kansas Farmer and Scribner's Magazine, regular price, \$4.00.
  - Our Club Offer No. 9, \$5.50.—Kansas Farmer, Kansas City Daily Morning Times, and Kansas City Daily Evening Star, 15 papers each week, regular price, \$6.20.
- Note other offers on other pages and act promptly.

A Key Note for 1908.

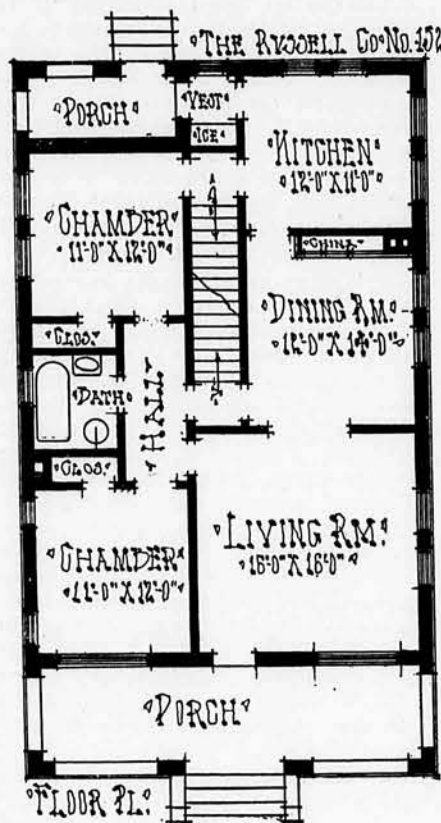
We are in receipt of the following  
letter which has the right ring, from  
a business standpoint, for the new  
year. We commend the same to all  
THE KANSAS FARMER readers.

"THE KANSAS FARMER.  
"Greetings:—We wish you a most  
happy and prosperous New Year, and  
may health and prosperity be yours  
for years to come.

"We thank you heartily for the in-  
terest you have taken in our line. We  
are hopeful it will be sustained—in-  
definitely.

"On the whole, the year 1907 was a  
good one. 'Tis true, the past three  
months have been a little disappoint-  
ing. We have all weathered the  
storm, however, and, barring a few  
bruises, are stronger and wiser for the  
experience.

"Confidence is again abroad in the  
land; distrust and apprehension have  
gone "way back." Nineteen hundred  
and eight is bound to be a record-  
breaking year. So let's pull together—  
strong, and long, and willingly.  
"Optimistically."



privacy and also serves as connecting  
passage between the chambers and the  
second floor. The door in the rear  
chamber to the cellar passageway en-  
ables one to reach either chamber  
without passing through the front part  
of the house. A fine, roomy closet is  
provided for each of the bedrooms.

While the cost of this little home  
will vary according to the finish and  
the quality of the concrete material  
used it ought to be erected in a sat-  
isfactory manner for \$1,950.

Complete plans and specifications  
No. 152 can be obtained for \$20.  
Height of cellar, 7½ feet; first floor  
9 feet. Total width 29½ feet; length  
not including porch, 44 feet.

The second edition of the Twentieth  
Century Cottages, which contains all  
the best designs of the first and a  
number of new ones, is now ready and  
will be sent to any address postpaid



Stock Interests

Reseeding the Range With Cultivated Grasses.

The live-stock industry turns to account one of the greatest natural resources of the West—the forage crop.

From the plains to the Pacific an astonishingly large proportion of the area is grazing land. It is estimated that this region contains over 400,000,000 acres which are useful at present only for pasturing stock.

The Forest Service, in cooperation with the Bureau of Plant Industry, has begun a series of experiments to find out how the carrying power of grazing lands within National Forests can be increased.

In the past the stockman on the public lands has simply taken what nature offered him. But grazing tends to put nature at a disadvantage. Plants which propagate by seed, for example, have no chance when the seed stalks are being eaten off all the time.

These investigations are to be carried out along three distinct lines—studies of what can be done in the way of introducing cultivated grasses, studies of range improvement through better knowledge of how wild grasses propagate, and studies of how to handle both cattle and sheep so as to reduce the waste due to herding and trampling.

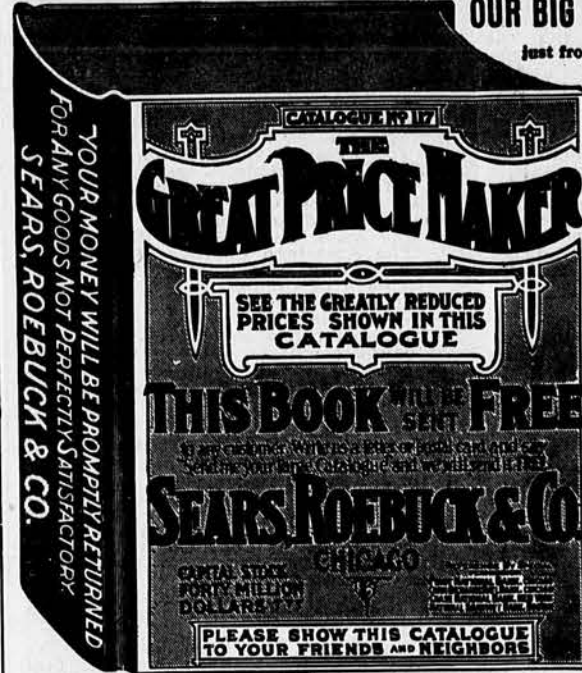
The man in charge of these studies is Mr. Frederick V. Coville, of the Bureau of Plant Industry, who is an expert in matters connected with the use of the range. Mr. Coville made a careful study of grazing problems in the Cascade Mountains of Oregon for the Interior Department ten years ago, and contributed to the discussion of grazing questions which formed part of the Public Lands Commission report made in 1905.

The experiments will begin in Wal-lowa County, in Northwestern Oregon, in the Innaha National Forest. Here, at different altitudes a number of moist natural meadows have been picked out. Those having the greatest altitude are 10,000 feet or more above the sea, where in early July the snow still covers the ground, although rapidly melting under the summer sun.

The purpose of these wet-meadow experiments is improvement of the summer range. Stock do not winter in the mountains, but are driven gradually higher and higher as the advancing season calls forth the vegetation on which they feed.

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cause whatsoever, you alone to be the judge, we to immediately return your money together with any freight or express charges you may have paid.

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SEARS, ROEBUCK & CO. CHICAGO.

feed crops which the ranches produce, depend for their utilization upon this summer pasturage, to which the stock can be driven when the dry season sets in.

In the higher parts of the Innaha National Forest good late summer pasture for sheep is valuable. Snow covers the ground nine months of the year, and the grass that grows must grow quickly.

It is a wild and rugged mountain region with few trails, and those very difficult. Harrows or other agricultural machinery could not be taken in, except on the backs of pack animals.

The meadows selected for sowing will first be grazed as short as sheep can crop the native grass. Since the ground is wet, it will be much cut up by the sheep.

will have been solved, for a much larger quantity of forage will be furnished by these plants than the native growths supply.

If this grass sowing on the high Oregon mountains is successful, it will open the way for similar range development elsewhere.

A Horse Organization. The question of a State organization for the promotion of horse interests, more particularly along harness and speed horse lines, is being agitated and will probably be brought to a head this winter.

The object of such a meeting will be to create a State organization and put it into operation. It is designed to make it representative of the entire State and to enlist as many as possible in the inauguration of the movement.

The pages of THE KANSAS FARMER are open to any suggestions in the matter, and H. A. Heath, secretary of the Kansas Improved Stock Breeders' Association, will receive and report any communications made to him on the question.

New Class for Horses at the Iowa State Fair.

At a meeting of the Iowa State Board of Agriculture, held in Des Moines, December 12 and 13, the premium list for the 1908 fair was revised and adopted.

a new and liberal classification for draft geldings and grade mares in harness is offered. This classification carries a thousand dollars in prizes, and assurance has been received that it will be supplemented with specials from several breeders' associations.

Taken altogether, this classification, supplemented as it will be by the association specials, is probably the most comprehensive and liberal that has ever been offered for draft horses at any of the leading shows.

Keep Your Best Stock.

Many farmers are in the habit of selling their best animals as they will bring the highest price. A greater mistake can not be made. A difference of 10 or even 25 per cent in the price of a single animal is a small affair as compared with this difference in a whole herd.

What would you say of a farmer who had several highly valuable varieties of potatoes, and had others that were inferior, and in consequence of the imprudence of planting the inferior his next crop should fall short 25 per cent?



true for animals for breeding purposes, but for work as well. Who does not know, in his own experience, of farmers who sell their best work horses and keep the poorer? Well, the consequence is the poorer one costs a great deal more to keep each year and does less work, and in the end is the most expensive animal. The policy should have been to keep the better one and to have sold the inferior. This is true in every case. And doubly so, we believe, when the farmer has animals for breeding purposes. There is a vast difference in our cattle in sections where much attention has been given to improvements by selecting the best, when contrasted with those where little or no attention has been paid to the subject, and as a matter of course, the best have been sold, or eaten up, because they were the fattest.

Every man that raises stock has it in his power to make improvements, and he should avail himself of all the advantages around him to turn his power to the benefit of himself and posterity.

**Field Notes**

**LIVE STOCK REPRESENTATIVES.**

J. W. Johnson.....Kansas and Nebraska  
L. K. Lewis.....Kansas and Oklahoma  
Geo. E. Cole.....Missouri and Iowa

**COMING EVENTS.**

January 6-8, 1908—Kansas Improved Stock Breeders' Eighteenth Annual Meeting at Topeka; H. A. Heath, Secretary.

January 6-11, 1908—Poultry Show at Topeka; Thos. Owen, Secretary.

January 8-10, 1908—Kansas State Board of Agriculture at Topeka; F. D. Coburn, Secretary.

February 11-12, 1908—Standard Poland-China Record Association, St. Joseph, Mo. Geo F. Woodworth, Secretary, Marysville, Mo.

Duroc-Jersey breeders should secure catalogues and arrange to attend the circuit of bred-sow sales commencing with the J. E. Joines sale at Clyde, Kans., January 27, and from there to Manhattan where Grant Chapin sells at the Agricultural College the day following. January 29 and the day following Grant Chapin's sale at Manhattan is the date of J. O. Hunt's regular annual bred-sow sale at his farm near Marysville, Kans. All three sales can be easily reached and with very little expense. Drop each party a card for a catalogue to-day and follow this circuit if you are interested in the best the breed affords.

The date of W. L. Vick's sale of Duroc-Jersey bred sows at Junction City, Kans., is January 25. Forty head will be sold and all are tried sows and fall yearlings and are selected from 240 head. Mr. Vick is known to practically every breeder of Durocs in Kansas as a good buyer of the very best. He has never paid sensational prices for anything, but on the other hand he has never bought an inferior animal at any price. His herd is one of the best in Kansas and his offering of bred sows January 25 is worth your inspection at least. Watch THE KANSAS FARMER for his advertisement and further information and in the meantime have him book you for a catalogue which will be ready soon. It is W. L. Vick, Junction City, Kans. If you are a Duroc breeder you know him, and if it happens that you don't you ought to and now is a good time to make his acquaintance.

One of the very best offerings of Duroc-Jersey bred sows that will be made this winter is the offering of forty head to be made by Jas. L. Cook of Marysville, Kans., January 21. A major portion of the offering will be bred to First Quality 50599 he by W. L. A's Choice Goods and out of Primrose she by Tom Watson. First Quality is eighteen months old and an extra good breeder. This is without doubt one of the very best offerings of bred sows to be sold this winter and as the time is getting close it would be a good idea to drop Mr. Cook a card for a catalogue at once and examine the breeding it contains and arrange to be there the 21st. The sale will be held in the big tent furnished by Col. Brady of Manhattan and will be held at the farm which is only four miles from Marysville and eight miles north of Waterville. Arrangements have been made for transportation from both places. If you are looking for a few fancy bred sows that have size as well, you are going to miss it if you do not attend this sale. Address Jas. L. Cook, Marysville, Kans., for a catalogue.

In this issue will be found the advertisement of Jas. T. McCulloch, the well-known and deservedly very popular live-stock auctioneer of Clay Center, Kans. Colonel McCulloch is conducting some of the best sales of pure-bred swine that will be held in the central part of Kansas this season. He is being praised and complimented on every hand because of the splendid success he is attaining everywhere. The writer knows of Colonel McCulloch's ability and integrity and is glad to recommend him to breeders who contemplate holding public sales. He knows good individuals when he sees them

and is heartily in sympathy with the best interests of the breeders. He is being entrusted with unlimited bids to be used in some of the best breeders in the country. They have confidence in his honesty and that is what enables a man to make a success of any business. Besides he is really posted about the different lines of breeding and that comes of his studying his business which is another reason for his marked success. Here is guessing that McCulloch is one of the "big ones" in a mighty short time.

This is the last call for John Cramer's great O. I. C. bred-sow sale at Beatrice, Neb. Mr. Cramer is one of the recognized leaders among the progressive and up-to-date breeders of popular O. I. C. hogs. His herd at Beatrice is one of the biggest and best managed in the country, and Mr. Cra-



mer has shipped hogs on mail order to about every State in the Union. His offering of bred sows on January 8 is sure to attract breeders of this popular breed from several States. Many of the sows in this sale are bred to K Garnett, the great show hog. Look up his advertisement in this issue and drop him a card for a catalogue which will come to you by return mail. Bids should be sent to J. W. Johnson of THE KANSAS FARMER in Mr. Cramer's care at Beatrice, Neb.

W. T. Hammond, owner of the Sunny Slope Poland-Chinas at Fortis, Kans., makes a change in his advertising card this week. He writes that trade has been very satisfactory this fall considering the short crop in that part of the State. He has sold thirty young boars into various parts of Kansas, Nebraska, and Missouri, also a great number of gilts and every customer that he has heard from states that he is well pleased and that the pigs are doing well. He still has a number of spring boars and gilts of the big, smooth, lengthy kind that the farmers like. The gilts will be priced open or bred. He has selected two of the best young boars he could find to breed on Guy Hadley and Sunflower Perfection gilts. These young boars are S. P. Satin by Dawley's great S. P. Perfection and out of Satin Finish, one of F. M. Lail's best Grand Chief sows, and Prince Perfection by L. D. Arnold's great breeding boar Grand Perfection. Mr. Hammond is ready to give notice now that Prince Perfection will have to be reckoned with in the big shows next year.

In his sale which will be held at the college judging pavilion, Manhattan, Kans., on February 8, 1908, will be all of his tried brood sows and a select lot of fall and spring gilts bred to Guy Hadley, S. P. Satin, and Prince Perfection. Catalogues will be ready by January, 28.

Mr. Hammond is also a breeder of Scotch Collies and now has a litter of four males and four females out of Fanny Porties 107419, that are ready to ship. Those of our readers who desire Collies had better order at once, as the last litter sold so rapidly that Mr. Hammond was obliged to return many checks.

**PROGRAM BREEDERS' ANNUAL MEETING.**

The Eighteenth Annual Meeting of the Kansas Improved Stock Breeders' Association will be held at Representative Hall, State Capitol Building, Topeka, Kans., January 6-8, 1908.

The program presented is one of the best from every standpoint we think that was ever prepared for the Association. Every member is urged to be present and bring a big delegation with him. Their attendance at the meetings would do them good as well as the members.

MONDAY, JANUARY 6, 1908.  
Opening Session, 3:00 o'clock.  
Preliminary Business.  
Appointment of Committees.  
Reports of Officers.  
Reception of New Members.  
Evening Session, 7:30 o'clock.  
Annual Address, President Geo. W. Berry, Lawrence, Kans.  
"An Address, Not Exactly," Robt. H. Hazlett, President American Hereford Association, Eldorado, Kans.  
"Raising the Calf versus Buying It," Rodney A. Elward, Castleton, Kans.  
General Discussion.

TUESDAY, JANUARY 7, 1908.  
Morning Session, 9:30 o'clock.  
An Address, C. K. McClelland, Director Ft. Hays Experiment Station.  
E. D. King, Burlington, Kans.  
"The Public Sale Problem,"—A General Discussion; Chas. E. Sutton, Lawrence, Kans.  
"The Importance and Value of a Correct and True Pedigree," E. E. Axline, Oak Grove, Mo.  
Afternoon Session, 1:30 o'clock.  
"State Taxation of Pedigreed Stock,"—A General Discussion; C. A. Stannard, Emporia, Kans.; S. C. Hanna, Howard, Kans.

"Breeders' Community of Interests," Prof. D. H. Otis, Assistant Dean Wisconsin College of Agriculture, Madison, Wis.  
"Dual-Purpose Cattle," Wilkie Blair, President Kansas Red Polled Cattle Club, Girard, Kans.  
Evening Session, 7:30 o'clock.  
"Selection, A Primary Breeding Problem," Prof. C. W. Burkett, Director Kansas Experiment Station, Manhattan, Kans.

"Importance of a Live Stock Industry to the Agriculture of a Country," Senator W. A. Harris, Lawrence, Kans.  
"A Plan to Eradicate Animal Tuberculosis in One or Two Years Without Loss or Cost," Dr. Burton Rogers, Veterinarian Assistant Kansas Agricultural College, Manhattan, Kans.  
WEDNESDAY, JANUARY 8, 1908.  
Morning Session, 9:00 o'clock.  
"Observations in Judging Exhibition Stock," Prof. R. J. Kinzer, Animal Husbandry Department, Manhattan, Kans.  
"Sheep, Present and Past," Hon. George Plumb, Emporia, Kans.  
"The Present Appreciation of a Good Cow," G. G. Burton, Topeka.  
Afternoon Session, 1:00 o'clock.  
An Address, Geo. Stevenson Jr., Retiring President American Aberdeen-Angus Association, Waterville, Kans.  
"The American Carriage Horse," Dr. Carl W. Gay, Harrisburg, Pa.  
Reports of Committees.  
Election of Officers.  
Adjournment.

The social session or breeders' annual banquet will be held on Wednesday evening as usual, detailed announcements of which will be made during the meeting.

**A Great Poland-China Event at Harrisonville.**

On January 16, 1908, Chas. E. Hedges, proprietor of the Glenwood Poland-China Breeding Farm at Garden City, Mo., will sell at Harrisonville, Mo., a grand lot of Poland-Chinas including fifty sows and gilts, and three herd boars representing some of the popular families that have been interesting the breeding public for the past several years.

Mr. Hedges, has been breeding Poland-Chinas for many years. In fact his father was a breeder before him of considerable consequence, and the early training that Charlie has had in this particular line of endeavor has eminently fitted him for the high place he now occupies in the breeding world.

It will be remembered that it was he and his father that at one time owned Chief Perfection 2nd, and developed him for the show ring. He has always been partial to the very best in Poland-Chinas and this sale affords you an excellent opportunity to reap some of the rich fruitage of his labors in this direction. The following is a partial review of this good offering. Leader by Meddler 2d, out of a Corrector 2d dam, the top of C. G. Mills sale at Pleasant Hill, Mo., November 16, 1907, is a hog of exceptional merit and one that will look well in any herd. Trouble Maker 2d, by Trouble Maker, a full brother to Meddler and out of H's Black Bess 3d, by the sweepstakes State fair winner Chief Perfection Jr. is a smooth, stylish fellow and Mr. Hedges considers him the best boar he ever owned except Chief Perfection 2d and somebody is going to get a bargain here. Master Mechanic by Contractor by Keep On and out of Edith U. S. 4th by Chief Perfection 2d is one of the best sons of contractor and possesses the qualities of a show hog. Perfect Meddler by Meddler 2d and out of Miss Perfection 4th by Trouble Maker an all around good hog and a great breeder.

There will be forty-seven sows in this sale bred to the above mentioned boars and ten will be sold open, these may be bred to your own herd boar for spring sale.

The sow end of the offering consists of thirteen aged sows that are tried brood sows and most of them by State fair winners. One by Proud Perfection out of a half sister to old Corrector. Five by Ideal Tecumseh, four by Chief Perfection Jr., two by Trouble Maker, one by Majestic U. S. Mr. Hedges also has twenty 1906 fall sows, one by Mischief Maker, two by Corrector 2d out of a Meddler dam, nine by Trouble Maker, eight by Chief Perfection 3d by Chief Perfection 2d, and a brother to G's Perfection, the sweepstakes winner at Illinois and Iowa.

This is indeed a good offering and one that should appeal to all who are interested in the breeding of the best Poland-Chinas. The sale will be held at Harrisonville, Mo., and it will be worth your while to arrange to attend as there will doubtless be bargains here for you. More will be said of this event in another issue. Write Mr. Hedges to-day for one of his catalogues that will give you a full and complete description of the entire offering, and kindly mention THE KANSAS FARMER.

**Schrepel's Percherons.**

We call the especial attention of our readers who may be interested in this kind of stock to the card of F. H. Schrepel of Ellinwood, Kans., who is advertising a fine line of stallions of good ages for sale at prices to suit the times. Mr. Schrepel is one of the oldest breeders of Percheron horses in the State, and has established a reputation for the quality of his stock as well as for the general satisfaction of the many pleased customers who have purchased from him. The fieldman of THE KANSAS FARMER recently visited him, and following are some of the good ones to which his attention was called. Stallion, Recorder, a fine brown, 6 years old, with heavy bone, lots of style and finish, and good action, will weigh 2,200 pounds. Stallion, Ellinwood King 33337, 5 years old, color black, will weigh 1,900 pounds, this is a blocky fellow with plenty of bone, very smooth and well finished and with good style and action. Some of the young stallions which he has for sale, are a dark bay, 2 years old, extra good, a dark gray, 2 years old, and three good yearlings.

He also will sell some large, smooth mares of good ages, that are sure breeders, and some very fancy fillies. Mr. Schrepel also has for sale a very fine German coach horse, 6 years old. This is an outstanding individual with abundance of style and action, is a sure breeder and will weigh 1,500 pounds. Mr. Schrepel has three good jacks for sale, these are respectively 3, 4, and 6 years old. The 3 and 4 year olds are medium size with good bone, the 6 year old is large with very heavy bone. These are warranted sure and good performers. Look up Mr. Schrepel's

**HORSE OWNERS! USE**



**CAUSTIC BALSAM.**

A safe, speedy and positive cure. The safest, Best BLISTER ever used. Removes all bunches from horses. Impossible to produce scar or blemish. Send for circulars. Special advice free.

THE LAWRENCE-WILLIAMS CO., Cleveland, Ohio.

**Worms All Over the Ground.**

Drexel, Mo., Route 2, Jan. 24, 1907.  
F. J. TAYLOR CO.  
Bag of Tonic received and I put it in box as directed. My hogs eat it fine and I think it has done them good from the worms I see scattered over the feed-lot. I believe it is all right, especially for hogs. Will let you hear from me when it is all gone. I remain yours for a fair trial.  
W. G. BINKLEY.



Taylor's Stock Tonic does more than drive out the worms. It puts your hogs, cattle and horses in the pink of condition, makes them grow faster and stronger, prevents cholera, black-leg and all diseases arising from imperfect digestion.

We want you to know all about our Stock Tonic so we will send you 50 lbs. on trial if you will send us this advertisement.

In 30 days you will send us \$2.00 for the tonic, or return the empty bag if it is not satisfactory, and there is no charge.

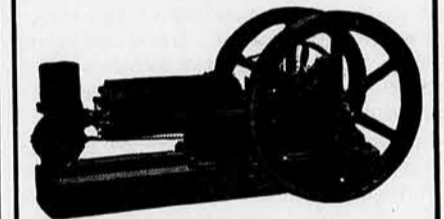
We are sending out thousands of bags on this basis and practically every one is paid for. It shows the merit of the goods and the honesty of the farmers. Cut out this ad today and send it to us.

F. J. TAYLOR CO.,

361 Live Stock Exchange, Kansas City, Mo.

**STOP LOOK LISTEN**

and consider the quality and price of Waterloo Gasoline Engines. over our illustrated Catalog and see the many points of mechanical skill. to all we have to say about quality and price and then be your own judge as to engine desired.



(Patented May 15, 1906.)  
The only horizontal, vapor cooled gasoline engine in the world. Worth twice the price of any other style gasoline engine, but costs you no more. Illustrated Catalogue free.

**Waterloo Gasoline Engine Co.**

1014 3d Ave. West, WATERLOO, IA.

\$10 a day may be earned by a man using our machinery. Some earn more. FULL LINE for prospecting for water, coal, mineral, oil, etc. Any DEPTH, any DIAMETER. PUMPS also. Free catalogue.

**THE AMERICAN WELL WORKS**

AURORA, ILL., U. S. A.  
BRANCH OFFICES  
Chicago, Ill., First National Bank Building  
New York, N. Y., 2-4 Stone St.  
San Francisco, Cal., 305 Market St.  
New Orleans, La., J. H. Munge & Co.  
R. B. Whitacre & Co., 205 Robert St., St. Paul, Minn.  
Dallas, Texas

**Catalogues**

Compiled and printed by us, are perfectly satisfactory. Try us for your next one. We deliver, work strictly on time.

Smith Printing Co., Hiawatha, Kan.

**The Blossom House**

Kansas City, Mo.

Opposite Union Depot. Everything first-class. Cafe in connection. Cars for the Stock Yards, the up town business and residence parts of the city and for Kansas City, Kansas, pass the door. Solid comfort at moderate prices. A trial will please you

**VETERINARY COURSE AT HOME.**

\$1200 year and upwards can be made taking our Veterinary Course at home during sparetime; taught in simplest English; Diploma granted, positions obtained successful students; cost in reach of all; satisfaction guaranteed; particulars on request. VETERINARY CORRESPONDENCE SCHOOL, Dept. 17, London, Canada.



card in THE KANSAS FARMER and write him, or visit his barns and inspect this stock personally. You will find his stock good, his prices right and if you buy of him he will give you a square deal.

**The Capital Bluff Hereford Sale.**

On January 8, at Blue Rapids, Kans., Mr. E. R. Morgan will sell a very choice selection from his Capital Bluff Herefords. We hope every lover of good cattle and especially every Hereford man in Kansas and adjacent States will be present at this sale as the offering will be by far the best that has been made in Kansas in many moons. Mr. Morgan's show herd will be included in this sale and they were winners of many first and championship prizes at the Kansas and Nebraska State Fairs and at the American Royal. Among these show animals that will be sold is Soldier Creek Columbus 4th, who is the best son of the famous \$5,050 Columbus 17th and who formerly headed the Kansas State Agricultural College herd. There will be 39 cows and heifers, 8 of which will have calves at foot by the champion Onward 18th and all will be bred to the champion bulls Onward 18th and Soldier Creek Columbus 4th. This is a wonderfully fine bunch of she stuff and they are all in fine condition. Thick fleshed, broad backed, wide ribbed and deep bodied cattle that are the perfection of the breeders art and just the kind you want. Seven of these cows are imported animals which were among the best that were brought over by K. E. Armour in his two famous importations. There are some 20 odd bulls in this offering and every one a good one. In fact, we do not remember any sale of Hereford cattle made by one man wherein the offering was so uniformly good. Read the advertisement, look at the picture and ask Mr. Morgan to send you one of his catalogues. Whatever you do, don't fail to be present at this sale or send a bid.

**An Interesting Personality at High-view.**

It is with pleasure that we present our readers with the likeness of little Miss Hazel Ray Faulkner, daughter of H. L. Faulkner, proprietor of the High-



view Breeding Farm at Jamesport, Mo. There is scarcely a breeder of Poland-Chinas in the country that does not know Homer Faulkner and the kind of hogs he is breeding, the big-boned, spotted kind. Budweiser, the hog that stands at the head of his famous herd, is one of the grand breeders of the Poland-China family, and his get are being shipped to many States. They have plenty of size and are the early maturing kind, and the kind that are popular with the farmer.

Mr. Faulkner is arranging for a sale of bred sows on January 30. Watch these columns for further mention of this event.

**Masterpiece Berkshires.**

Geo. W. Berry of Lawrence, Kans., writes that the Berkshires he offers for sale are as good as any he ever bred. Among the fall pigs there is not a poor one. They have fine markings; very short noses; fine erect ears; full crests; great backs, and plenty of bone and substance. Their sire and dams were got by Berryton Duke or Forest King, full brothers of Masterpiece. As is well known, Mr. Berry is the breeder of Masterpiece, the greatest boar the breed ever produced, also, his sire Black Robinhood, one of the greatest Berkshire sires, and originated and developed the Silver Tips and Royal Empress popular strains.

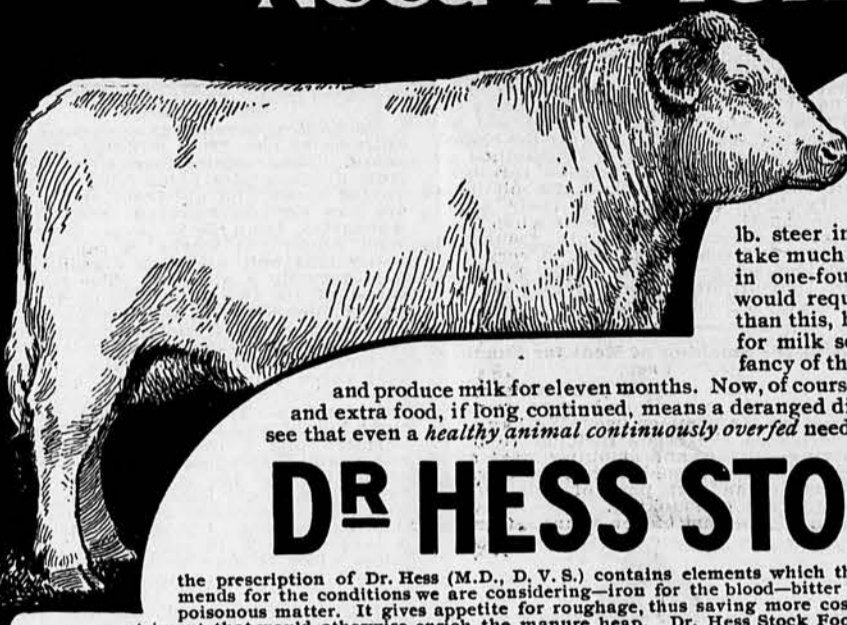
The pigs offered for sale include a number that are great show yard prospects. There are some boars that are exceedingly promising, and they have been handled with the view to their future usefulness.

**Baler's Poland-Chinas.**

Jos. M. Baler, of Elmo, Kans., who is a regular advertiser in THE KANSAS FARMER is offering for sale at bargain prices some high-class spring males. Three of these are by his herd boar the \$1,000 Tom Lipton, two are by Meddler 2d, one by Corrector 2d, and one by Prince Darkness. These boars are all out of high-class dams of the best breeding, are well-grown and are good individuals.

Mr. Baler says that they are fit to head good herds, but as it is getting

# Do Healthy Animals Need A Tonic?



Probably not, if always permitted at liberty to secure such diet as Nature intended. We must remember, however, that the animal domesticated is subject to unnatural conditions. The feeder is striving to make a 1000 lb. steer in a year's time when Nature would take much longer. He is making a 200 lb. hog in one-fourth the period unassisted growth would require for the same operation. More than this, he is asking the cow, whose capacity for milk secretion was limited to the brief infancy of the calf, to do violence to Nature's plan and produce milk for eleven months. Now, of course, extra production means extra food, and extra food, if long continued, means a deranged digestive system. Hence it is easy to see that even a healthy animal continuously overfed needs the assistance of a corrective tonic.

## DR HESS STOCK FOOD

the prescription of Dr. Hess (M.D., D. V. S.) contains elements which the most advanced medical science recommends for the conditions we are considering—iron for the blood—bitter tonics for digestion and nitrates to expel poisonous matter. It gives appetite for roughage, thus saving more costly foods and by increasing assimilation saves nutriment that would otherwise enrich the manure heap. Dr. Hess Stock Food makes more milk, hastens the fattening of a steer or hog and is the best known tonic preparation for horses. Sold on a written guarantee.

**100 lbs. \$5.00; 25 lb. pail \$1.60** Except in Canada and Extreme West and South

Smaller quantities at a slight advance

Where Dr. Hess Stock Food differs in particular is in the dose—it's small and fed but twice a day, which proves it has the most digestive strength to the pound. Our Government recognizes Dr. Hess Stock Food as a medicinal compound and this paper is back of the guarantee. Free from the 1st to the 10th of each month—Dr. Hess, (M. D., D. V. S.) will prescribe for your ailing animals. You can have his 96-page Veterinary Book any time for the asking. Mention this paper.

**DR. HESS & CLARK, Ashland, Ohio.**  
Also Manufacturers of Dr. Hess Poultry Pan-a-c-a and Instant Louse Killer.

Instant Louse Killer Kills Lice.

## The Stone Produce Co.,

524-526 N. Kansas Ave., Topeka, Kans.

**late and he is anxious to move them he will price them at \$20 each if taken soon. Here is an opportunity to get a high-class young male at a reasonable figure.**

Better write Mr. Baler at once about these fellows for they won't last long at these prices. He also will sell at private treaty a few choice sows of the best breeding. These have been bred to Tom Lipton or a male equally good for early farrow, these will be priced right if taken soon. If you are interested write Mr. Baler at once about these or call and inspect his herd. He has claimed February 24 as the date of his bred-sow sale.

**Has SEED POTATOES**  
of all kinds for sale.  
Write for prices. Reference,  
Merchants National Bank.

**Buck's Poland-Chinas.**

R. M. Buck of Eskridge, Kans., writes that he still has some fancy gilts, and extra good young boars for sale at way down prices.

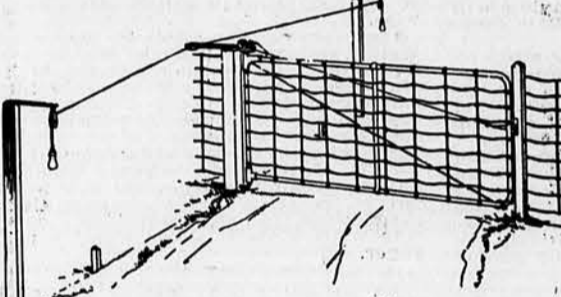
The young males that he is offering for sale are out of high-class dams of the richest breedings and by his herd boars Advance and On and On 2d.

Advance is by Chief Perfection 2d; he was bred by J. V. Cotta, and is a brother to Grand Sweepstakes the boar that created such a stir in Indiana. He is the type of Mischief Maker, 56 inches from ear to tail, heart 59, loin 61 and 10 inch bone, with the strongest of backs without a wrinkle.

On and On 2d is a good son of the great On and On, and a strong breeding animal. The gilts that he will sell, are full of quality, they are out of dams of good individuality and of the best breeding and are by such sires as Advance, On and On 2d, Anchor, and U. C. Perfection. These are all of early farrow and most of them are bred.

Mr. Buck is pricing these gilts at

### Adams' Automatic Ball-bearing Gate



Always swings from the team. Can be operated by a child 3 years old. Hinges malleable. Cheap, durable and slightly. Guaranteed satisfactory. All kinds of farm and self-closing yard gates. Ask for advertising matter. Agents wanted.

**E. W. ADAMS,**  
Sta. A. Topeka, Kans

### "Sixty Day" Oats

Pure Bred Stock

For a sure crop of oats next year, sow my hardy and vigorous pedigree "Sixty Day" grown from selected stock, in South Dakota. Only a limited amount for sale; price, 2 bushels, \$2.50; 5 bushels, \$6; 10 bushels, \$11; 25 bushels or more; \$1 per bu.; bags, 10c each; samples free.

**L. C. Brown, La Grange, Ill.**

from \$20 to \$40 and the males at \$20 and \$25. Write him about these, or go and see this stuff, it will pay you to do so. When writing please mention this paper.

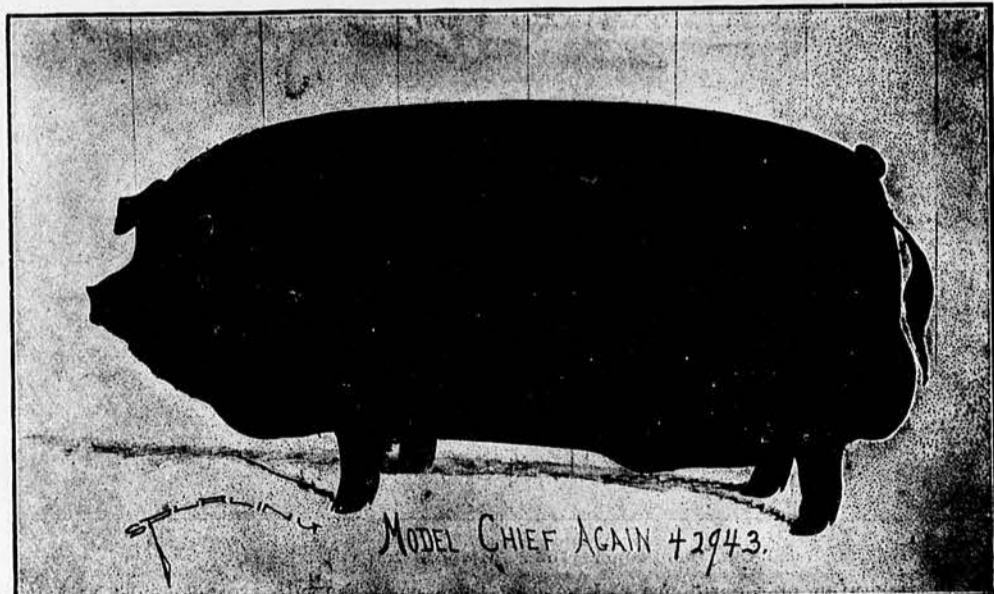
**R. W. Brown Now Secretary.**

Robert W. Brown of Carrollton, Mo., is the new secretary of the American Galloway Breeders' Association. He will take charge of the office January 1. President J. C. Ewing of Youngstown, Ohio, has just notified Retiring Secretary Gray of the election of Mr. Brown by the executive committee.

Mr. Brown is well fitted for his new

work. He is a breeder of Galloways, has served as superintendent of cattle at the Missouri State Fair for several years and is a member of the executive board of the American Royal Show as a representative of the Galloway breed. He is aggressive and conscientious and has a wide acquaintance among not only Galloway breeders, but those of other breeds as well. He was educated at the University of Missouri and held a prominent position in the United States army during the Spanish-American war.

Due to his close association and friendship with Secretary Gray Mr. Brown is thoroughly familiar with the



Model Chief Again was one of the great sires in Mr. Grant Chapin's herd of Duroc-Jerseys at Green, Kans., and which Mr. Chapin had the misfortune to lose recently. He was bred by Chas. E. Speaks, of Willow Springs, Ohio, and had attained quite a reputation in the East before Mr. Chapin bought him and

brought him West. He was a grand son of Ohio Chief and his dam was Dew Drop Maid. In Mr. Chapin's October 30 sale, at Manhattan, it was Model Chief Again spring gilts that made things lively when they came in the ring. In Mr. Chapin's bred-sow sale of January 28, at the Agricultural College

at Manhattan he will sell twenty-five fall yearlings sired by old Model and every one of them selected and reserved for this particular sale. Watch THE KANSAS FARMER for further information concerning Mr. Chapin's coming sale and in the meantime drop him a card at Green, Kans., for a catalogue.



policy of the office and can continue the good work. Galloway men feel they have made a wise choice in Mr. Brown for secretary and that the association will continue to prosper under the new leadership as it has under the old.

#### The Robison Percheron Dispersion.

J. W. & J. C. Robison, owners of the famous Whitewater Falls Percherons at Towanda, Kans., announce that their regular annual sale which will be held at Wichita on February 18 will be a dissolution sale as well. Col. J. W. Robison will retire from the business and Mr. J. C. Robison will continue to handle as many and as high quality of Percherons as has ever been on the place.

Just lately the Whitewater Falls farm has added a new feather to its cap. They have just shipped a fine team of two-year-old mares to the Texas Agricultural College. This makes four State agricultural colleges that they have supplied with Percheron teams. Kansas, Colorado, Oklahoma, and Texas colleges all own these famous products of the big alfalfa farm. Note the picture of the two mares in this issue and you will want some like them. Write to J. C. Robison for a catalogue.

#### Attractions at Stryker Brothers' Poland-China Sale.

Among the attractions to be offered in Stryker Brothers' Poland-China sale which will be held at Fredonia, Kans., on January 20, 1908, are:

Louise Mist, the first-prize under a year gilt at the Kansas State Fair, is sired by Minstrel and out of Mischief-Maker's Pet. She is safe with pig by Chief Sunshine 2d. Colonel Snyder says that this is one of the best gilts that he has ever seen, Louise of Oakwood not excepted.

Coquette, by Corrector 2d, has been pronounced by competent judges to be one of the best, if not the best, of this great hog's production. It is not too much to say that she is outclassed by any of them.

Split Silk won first at the Wilson County Fair and was placed fourth at the Kansas State Fair; was a member of the young herd that took second, also in the herd that took second for get of sire, but at Wichita she was placed in the young herd that won first, also in the one that won like honors for get of sire. She is now bred to the great Chief Sunshine 2d.

Ebony Queen and Midnight Maid are two fine show gilts by Meddler 2d. Ebony Queen was the third prize show gilt at the Kansas State Fair and Midnight Maid was the first prize gilt at the Wilson County Fair in the same class. These handsome gilts are the same breeding as Torpedo, the \$2,000 hog that the prophets are saying will be the great 1908 champion. Both these gilts will be sold open.

Charity, a superb gilt, was sired by Corrector. She took second place at the Kansas State Fair and was a member of the herd that took first for get of sire. This is a phenomenal gilt and is bred to the great Perfect Challenger.

Evangeline is by Meddler's Medal and out of Corrector's Beauty. She is an exceptionally fine gilt and is bred to Imp's Likeness.

Avalanche, by Meddler 2d, dam Needful by Lamplighter 2d, is positively the greatest Meddler 2d boar to be offered in the Southwest this year.

The sires to which the sows are bred are: Fourteen head to Meddler's Medal; 15 head to Imp's Likeness; 4 head to Chief Sunshine 2d; 1 head to Perfect Challenger; 1 head to Success; 6 head sell open.

#### Ferry's Free Seed Book.

For half a century thousands and thousands of farmers and gardeners have regarded "Ferry's Seed Annual" as the best guide not only for the buying of seeds, but for their planting and care. Daily reference to its text and illustrations proves it to be the actual beginning of a successful season. The new edition for 1908 is now ready for free mailing to all who write to the publishers for a copy.

It is a high tribute to the house of D. M. Ferry & Co. that two generations have planted Ferry's Seeds, each succeeding year adding to the confidence that "seed trouble" will never arise when Ferry's seeds are planted as "Ferry's Seed Annual" says they should be.

Another remarkable feature developed by the house of Ferry is the method of distributing seeds to dealers throughout the country so that the planters everywhere can secure a their home store exactly what they want when they want it, with the absolute assurance that it is fresh and fertile. Every one should send at once to D. M. Ferry & Co., Detroit, Mich., for the 1908 edition of "Ferry's Seed Annual."

#### About the Smoking of Meat for Summer Use.

At this season of the year it becomes a matter of anxiety how best to prepare our meat for summer use. We have all experienced the trials incident to butchering, curing, and smoking meat and it is with apprehension that we always approach the last part of this work, the process of smoking.

During the last eleven years a firm in



Kansas City, Mo., has been exploiting a new way of smoking meat and where their method has been adopted all the work and worry attending the old way of smoking meat has been done away with.

They manufacture what is known as Wright's Condensed Smoke which is a liquid made by burning selected hickory wood, condensing the smoke into a liquid, which is then put up in quart bottles, one of which is sufficient to smoke a barrel of meat.

By referring to the advertisement of The E. H. Wright Company, Limited, on page 14 of this issue you will learn how to procure a small package of their preparation free of charge.

In writing them, please mention this paper. An old darky who said he was glad he had two boils instead of one gave as his reason: "You see de first one hurts so it makes me forget de secon' and de secon' hurts so I forgets de first." That is why, no doubt, men who use

laundry soap for shaving, shave when they have a toothache. But there is no reason why a man should pray for sustaining grace when he starts to shave. He could answer his own prayers and get better help if he would use the right kind of soap—and we mean by the "right" kind (taking his own grandfather's word for it), Williams' Shaving Soap.

It softens the beard and cools and soothes the irritated skin. By sending a 2c stamp to the manufacturers, The J. B. Williams Co., Glastonbury, Conn., to pay postage, you can obtain a free sample.

#### Easy Digging.

Mechanical inventions each year save millions of men from millions of backaches. Tired, aching backs and bodies from digging post holes with the antiquated spade and old-fashioned augers are now entirely relieved by using the wonderful Iwan Bros. Post Hole and Well Auger. It works so rapidly and easily that hole and well digging with it is actually a pleasure. The peculiar shape of its two interlocking crucible steel blades attached to a strong malleable arch seem to virtually dig themselves into any condition of soil almost without any pressure from the operator. Just three turns sink them, and they pull out without the slightest resistance from suction. The handles are just the right height and they come in all sizes. Farmers find 8 inch augers the best size, while telephone and telegraph companies find the larger sizes of the Iwan Bros. auger invaluable. It is undoubtedly matchless as a labor and time economizer. One day's work with it saves enough to more than pay its price, while it may be used ideally as a rapid, well auger. Iwan Bros., Streator, Ill., supply extra pipe for handle when it is used for well digging. Write today, and mention THE KANSAS FARMER.

#### Now is the Time to Get a Cream Separator.

The farmer who keeps his eye on the bargain counter is the man who gets the good things now-a-days. Hardly an issue of this paper comes out that does not offer you an opportunity to buy some needed article at a big saving. For instance, any man who is thinking of getting a cream separator, is just now given a chance to buy the reliable Monarch way below any price ever made by a retailer or mail order house.

Many of our readers who now use the Monarch Cream Separator are urging friends to buy this durable, easy-running, close-skimming machine right away while the price is down where it is. Certainly no man will ever have a better chance to get a first-class cream separator like the Monarch 1907 which the Lisle Manufacturing Company at Clarinda, Iowa, are selling at manufacturers' cost price.

The Lawrence Business College was dismissed Friday for a two weeks' vacation. The new term will open January 6.

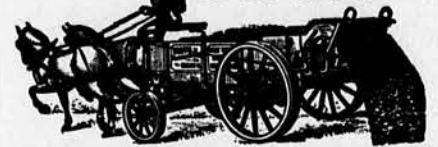
The Lawrence Business College basketball team left Friday on their annual holiday trip. They have arranged a schedule of 10 games for the trip and will be out two weeks. The first game was played at Glasco, Kans., with the Athletic Association there.

The team is the best ever put out by the college and play a fast, clean game. The boys have won every game played this season by a margin of from 20 to 40 points, and as they are now in fine trim, expect to win every game on the trip.

## \$4.00 to \$8.00 Gain Per Acre

That's What a Spreader Will Do If Used As It Should Be

Write Us And Let Us Tell You How



If you have 125 loads of manure to spread we will tell you how you can increase the value of your crop this year more than enough to pay for a spreader. We issue a book that will tell you when, how and where to spread manure; how to make from \$4.00 to \$8.00 more per acre from your farm than ever before. THE

## Great Western Spreader

Is Made for the Man Who Wants the Best

It Has—Oak Sills—not pine, elm or maple; Oak Tongue—not pine; Hickory Double-trees and Single-trees—not elm or maple; Mammoth Double Oak Bolster—not a frail, single bolster; Big, Heavy 16-inch Malleable Fifth Wheel—not small, light cast iron; Big, Heavy Front Axle, set well back under the load—not a light skeleton axle, set away out ahead of machine; Big, Heavy Rear Axle; Heaviest and Strongest Wheels found on any spreader; Wind Shield and Rake that make the work of the Great Western away in the lead; Endless Apron that is always ready to load; No complicated device needed to put it out of gear at the right moment to prevent serious breakage. It does not throw a bunch at starting and another at the finish, but spreads uniformly from start to finish. Wheels track, making easy draft and just the machine for top-dressing or in corn fields. No worm gears, no bevel gears, no breaking, no trouble—a spreader that everyone swears by, but not a word. Write just these words on a postal card or in a letter, "Send me your book, Practical Experience with Barnyard Manure, and Catalogue No. 221." They will be mailed free. Do it now. Smith Manufacturing Co., 158 Harrison St., Chicago, Ill.

## HEIDER

2, 3, 4 and 5-Horse Eveners  
For SULKY, GANG and DISC PLOWS

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**HEIDER MFG. CO.,**  
Mfrs. of all kinds of Eveners, Ladders, Etc.  
Dept. 6. CARROLL, IOWA.

## If It's Neuralgia

and those sharp, shooting, agonizing pains drive you almost crazy, take Dr. Miles' Anti-Pain Pills, and get relief. They drive out the pain by their soothing effect upon the nerves. When taken as directed they are harmless, and leave no bad after-effects. That's the reason they are so popular with all who use them. Your druggist can tell you what others in your locality think of them.

"I do positively think that Dr. Miles' Anti-Pain Pills are the best medicine ever put upon the market. I find them so restful and soothing, and without any bad after-effects. I have suffered with neuralgia so that my system would just ache and quiver, and I cannot take opiates; but I can take these tablets, and they always relieve me. No one that suffers with neuralgia need fear to take them as I know they will not form a habit, for if there was any opiate in them I could not take them. Just one in the morning when I feel bad, and I can do my work all day."

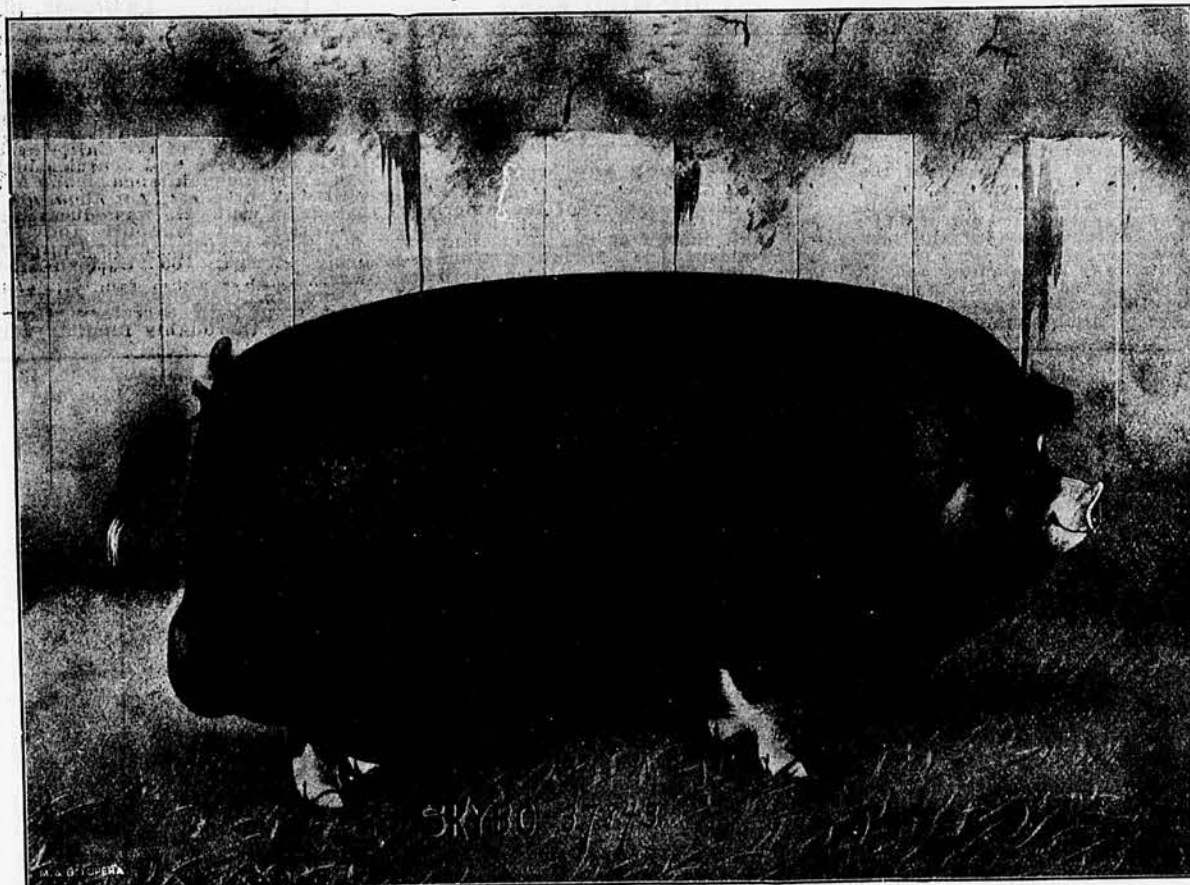
MRS. W. H. BURKETT, Macon, Ga.  
Dr. Miles' Anti-Pain Pills are sold by your druggist, who will guarantee that the first package will benefit. If it fails, he will return your money. 25 doses, 25 cents. Never sold in bulk.  
Miles Medical Co., Elkhart, Ind

## FURS, HIDES, JUNK

To be sure of a Square Deal Ship to  
**B. S. BARNARD, Iola, Kans.**

If prefer selling large lots at home advise accordingly, will call, don't delay. Write today for price lists and shipping tags.

When writing to THE KANSAS FARMER always give your name and address.



Skybo, the Property of J. J. Ward Bellville, Kans.

Skybo not only has a reputation as a show hog but is conceded one of the very best producers in the West. He was sired by Grand Chief, the champion at the Missouri State Fair in 1903. Skybo won at the Illinois State Fair in 1905, and he and fifteen of his brothers and sisters won seventeen State fair

ribbons and none of them were shown at two fairs. His three full sisters won first, second, and third at the Illinois State Fair in 1906. But Skybo's strength is his ability to sire the kind that win and that he does this has been fully demonstrated during the past two years. He is conceded to be one of the

great Poland-China sires of the West. In Mr. Ward's bred-sow sale of January 31 eight or ten sows will be sold bred to him, and a goodly number will be sired by him. Watch THE KANSAS FARMER for further announcements concerning Mr. Ward's coming sale at Bellville, Kans.



**Agriculture**

**Cow-Peas, Emmer, and Artichokes.**

Will you kindly send me information as to the advisability of trying to grow cow-peas, emmer, soy-beans, and artichokes, in western Meade County? We, my brother and I, are trying to run a rented section adjoining Plains, on which there is about 130 acres buffalo-grass pasture. The balance has been cropped with wheat, barley, and Kafir-corn. We wish to keep all the cattle and hogs we can feed without using wheat crop or cash therefrom. What variety of corn would you recommend for this section and what is the price of seed of same, at the college? Any suggestions you will make as to profitable plans will be gratefully received.

We have more than fifty head of stock on the place. How should we dispose of the manure? Would you use it, and how, on a five-acre garden patch, and how much of said patch would it be worth while to put in melons, either stock melons or others? They seem to do well here.

Is Silver King the best barley? What other varieties are good?

Meade County. LEONARD BROWNE.

You should be able to grow crops of cow-peas successfully in your section of the State. Possibly also emmer and artichokes. Emmer has been recommended as a dry-land crop but at the Fort Hays Experiment Station, Hays, Kans., it has not given as good results as barley. Artichokes are well adapted for growing in light, warm soils, but are perhaps not a very good dry-land crop.

I advise that you try the artichokes and emmer in a small way in order to prove their value, but you may plant more largely of the cow-peas, provided you post yourself regarding the culture and handling of the crop. For information on this subject I have mailed you a copy of circular No. 8. Have also sent you circular letter giving general information regarding the culture of artichokes.

You will find some data on the growing of emmer and other small grains in bulletin 144, a copy of which has been mailed you.

I would not advise growing soy-beans. Cow-peas are much more apt to succeed with you and are a more productive and profitable crop to grow.

Rape is a good crop to furnish green feed for your hogs. Perhaps some of your land will grow alfalfa.

I could hardly recommend any of the varieties of corn which succeed at this station for growing in Meade County. You must secure Western-grown seed of the variety adapted for growing in your soil and climate. The varieties which succeed well at the Fort Hays Station in Ellis County are more apt to give good results in Meade County than eastern-grown seed. Such varieties as the Colorado White Dent, Kellogg's Pride of Saline, and Minnesota No. 113 have succeeded well in Ellis County. Write to Supt. C. K. McClelland, Fort Hays Branch Station, Hays, Kans. Seed corn grown in west-central counties of the State will be better adapted for growing in Meade County than seed-corn from central or eastern counties.

I doubt whether the manure from fifty head of stock could be used profitably on five acres of garden patch. You could use considerable amount on this patch, however, provided you are doing some intensive gardening and growing large amounts of vegetables for market. I would give a good dressing of manure in the fall and plow it under, giving another surface dressing during the winter. Manure applied to the garden, however, should be well rotted. Coarse, strawy manure will not give good results. It is often advisable to compost manure which is to be used on a garden patch.

This manure could be very profitably used on your general farming land. The plan should be to haul in the winter on land on which you will plant corn or Kafir-corn although the manure may be very profitably applied to the grass or alfalfa land, if you have

such. For more detailed information regarding use of manure, I have mailed you copy of circular No. 2.

Regarding the advisability of growing melons, you will have to learn by testing the crop; I can not give you any information. The Arkansas Valley, however, produces excellent melons, and if you have soil adapted for melons you may find them a profitable crop.

I am not familiar with the Silver King barley by that name. At this station the Mansury, Bonanza, and common Six-Rowed varieties have given the best results. The Six-Rowed Ellis is one of the best producers at the Fort Hays Station. You will find a report of our work with barley in bulletin 144 referred to above.

A. M. TENEYCK.

**Grasses for Pasture.**

I would like to know what kind of hay and pasture Bromus inermis grass makes. I am thinking of sowing a field of it for pasture and for hay, and would like to know if it is all right before I sow it. I would also like to know if it is hard to kill like Johnson grass. I don't want to sow something that will spread all over the farm and will be hard to get rid of. Is there any other kind of grass better adapted to this climate? I have a rich bottom farm.

O. J. DICKINSON.

**Cowley County.**

It appears that the Bromus inermis does not succeed so well in Southern Kansas as in the central and northern parts of the State. Perhaps you had better sow a combination of English blue-grass, orchard-grass, and alfalfa for pasture. This combination will also make good meadow, although it may be well to sow clover instead of alfalfa for meadow. Sow about fifteen pounds of each of the grasses with six pounds of alfalfa or four pounds of clover per acre. For pasture Alsike clover may be preferred to the red clover.

It is not a difficult matter to kill Bromus inermis grass. Where Johnson grass grows well and does not winter-kill it is almost impossible to kill it out. It would doubtless succeed well on your fertile bottom land but I would not advise you to sow Johnson grass.

I have mailed you a copy of bulletin No. 125 on English blue-grass and also a copy of circular No. 10 on "The Seeding of Alfalfa."

A. M. TENEYCK.

**Kafir-Corn and Sorghum.**

I have some land in Western Kansas, Wallace County, which I expect to improve to some extent this coming spring. I have dairying in view, and would like to know what would be the best to put in the ground in the spring to answer for winter feed for cows, a few hogs and chickens, and further, could we put this same ground to wheat next fall?

Is there any profitable chance of getting a fair stand of alfalfa in that county?

J. P. ERRIKSON.

**Washington County.**

There are no early-maturing crops well adapted for growing in Western Kansas which you could profitably grow to furnish forage and grain for winter feeding of live stock. Perhaps two of the most profitable crops for this purpose which may be grown in Wallace County are Kafir-corn and sorghum. The first may be grown for grain, and also for fodder, while the latter makes the best forage crop. I have mailed you circulars giving information regarding the growing of both Kafir-corn and sorghum for forage and for grain.

There is some danger that Kafir-corn will not mature grain before frost in your section of the State and many farmers prefer to grow Milo maize or Jerusalem corn. The Dwarf Milo maize is an excellent grain producer and the quality and feeding value closely resemble those of Kafir-corn. Dwarf Milo maize matures a couple of weeks earlier than Red Kafir-corn, which is the earliest maturing variety. However, if you grow any of these crops you could hardly sow such land to wheat in the fall.

You could grow barley as a grain crop, sowing early in the spring. Hog millet may also be sown for seed production but this crop should not be plant-

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You can prove this by simply taking my proposition and cleaning your grain—before you sell it—or before you sow it. \$1,000,000 lost by Farmers in Ohio and Michigan alone each season by selling and sowing dirty grain is a low estimate. You won't haul it to be cleaned before you sell your grain, so you are "docked" on the price because of dirt in every bushel. Just take me up on my offer—get a CHATHAM Fanning Mill and save its price easily by using it on your place. Take 30 Days' Free Trial first.

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Cleans all kinds of grain—Separates Oats from Wheat better than any mill you can buy—Cleans Red Clover—Takes out Buckhorn Plantain—Cleans Alsike Clover and all chaff and chaff out of wheat.

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This valuable book tells many other ways than those above that a Chatham Fanning Mill will make and save for you. As a practical man you know that all I've said above is true and you also know that in selling direct from our factory—prepaying freight to you—giving you 30 DAYS' FREE TRIAL—and our wholesale price—we have simply got to give you a CHATHAM Fanning Mill that does all we claim for it. Our business life depends on our mill's making good. Remember that

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I'll send you a CHATHAM Fanning Mill on 30 Days' Trial to prove it will do all we say it will. \$20,000 sold already in U. S. and Canada. Experiment Stations endorse them, and Agricultural Papers recommend them to subscribers. So why take low prices for dirty, mixed grain, or sow seed that grows weeds and mixed crops? Write for full particulars, prices, and New Catalog Free—Address me at nearest city to you—MANSON CAMPBELL, President

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Spend one cent for my Big Manure Spreader book. 55 illustrations; live, interesting reading matter. It tells you how to make more money on the farm. Get the book and ask for my plan by which you may partly or entirely pay for your machine. There could not be a better time than right now. Spend the cent and start 1908 right by making \$50.00 on first cost.

**THE GALLOWAY WAGON BOX MANURE SPREADER**

The Galloway Wagon Box Manure Spreader will make you more money than any implement on the farm. It will save you time and labor and make your manure go three times as far. It fits on the wagon gear you already have. Let me send you one on 30 days' trial with the money in your own pocket. Haul out 900 loads of manure, if you have that much, and decide for yourself that it is the lightest draft, most durable and best working spreader on the market. Try it with your own team. You will find that double feed, and the endless apron force feed feature will give you perfect satisfaction. Why not use the half of the spreader which you now have on your farm and make \$50.00 at the outset on the price of the machine? It is strongly built; it is an assured success. Let me prove it to you on your own farm, on your own wagon gears with your own horses. Made in four styles, from the 50-bushel size up to the entirely new 70-bushel spreader; the only one with wide track wagon running gear. I will ship immediately; no bank deposit; no scheme; no money down.

Wm. Galloway, President,

The Wm. Galloway Co., 339 Jefferson St., Waterloo, Iowa



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**The NEW HERO**

2-hole and 4-hole Custom and 2-hole Farmers' Positive Force-Feed Shellers

They have Chilled Working Parts and other points of strength and convenience. We make Horse Powers, Wood Saws, Huskers, Farm Trucks, Manure Spreaders, etc. We guarantee our Goodhue Wind Mills for five years.

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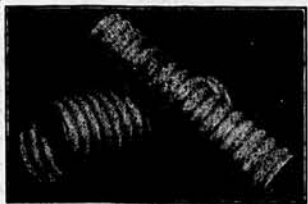


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With the aid of our modern road culvert, made of annealed, corrugated iron, heavily galvanized, roads can be properly and cheaply drained; and consequently, made better. With lumber high in price and getting higher; tile—so very unsatisfactory, and stone costing too much for labor in building, the corrugated, galvanized culvert is the best and cheapest to use. It costs no more than tile, stone or wood and is rustless. Guaranteed to stand up under any and all loads. For further information, address

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**LIGHTNING POWER FEED MILLS**

Small Mill with or without Base for Grinding shelled corn or small grain, 3 H. P. to 8 H. P. Large Mill for Grinding ear corn and small grain, 10 H. P. to 15 H. P. Guaranteed.

KANSAS CITY HAY PRESS CO., 129 Mill St., Kansas City, Mo.



**Stability of Page Fence**

Every Page Fence is woven of large, strong, high-carbon spring-steel wire of our own manufacture. Its power of resistance is greater than any other fence, because every horizontal strand is coiled spring and acts accordingly under strain. This Spring keeps Page Fence always rigid at top and bottom. There are other features you should know about Page Fence—write for catalog and folder.

Page Woven Wire Fence Co., Box 7816, Adrian, Mich.



**FARMERS' CHECKS HONORED**

If you want to put a little money where it is absolutely safe and will yield from 20 to 25 per cent per annum, write for full particulars to

Geo. S. Murray, Formerly Professor Commerce, Kansas State Normal School, Emporia, Kansas



ed before the last of June, and would hardly be removed early enough to put the land into good condition for seeding wheat in the fall.

Of the leguminous crops I would recommend cow-peas. The New Era variety should succeed well with you and this variety is a good grain-producer and also makes good forage. Cow-peas, however, would be planted after the first of June and the crop would hardly be removed early enough for sowing fall wheat, if the crop was left for seed. You may grow Indian corn for forage and also for grain. However, it is not so safe or valuable a crop for your section of the State as the sorghum, Milo maize, or Kafir-corn.

There are some good fields of alfalfa in Wallace County. These fields are usually on well-watered land, and many farmers do not as yet consider alfalfa a safe crop for the ordinary uplands of Western Kansas. However, some farmers are growing it even on the uplands and in my judgment the crop will eventually be a success on a large part of the lands in Western Kansas. I advise to try alfalfa, but perhaps you should not seed too large an area at the start; begin in a small way and learn how to handle the crop under the new conditions under which you will have to grow it. I have mailed you circular No. 8 on cow-peas and No. 10 on the seeding of alfalfa.

I have requested the director of the experiment station to mail you such publications as are available regarding the breeding and feeding of hogs.

A. M. TENEYCK.

A Question of Corn Seeds.

I have improved Boone County White corn (seed secured from Mr. E. Taylor, of Edwardsville, Kans.,) which has produced very well, but I see that you do not include it among your best varieties. If I summed up your data correctly, Kansas Sunflower or Hildreth is your best variety. I want the best variety for all purposes, that is, certainty of maturity ahead of frost, hardiness and feeding quality, and productiveness. Do you think it would pay me to make the change from Boone County White to one of these others? If so, which one? What do you charge per bushel in the ear f. o. b., Manhattan?

I put in forty acres of corn each year. Could I get enough seed for that or do you limit the amount so I would have to start with a small amount and increase my seed from my own raising?

B. M. ELLIOTT.

Franklin County.

It is true that the Boone County White corn has not given such large yields as some of the later maturing varieties. However, it is a good yielder, a sure cropper, and a good feeder and is one of the best varieties of white corn for exhibit, winning most of the prizes in the white corn classes at shows in this and other States. Possibly one of the reasons why it does not give so large yields as the Kansas Sunflower, Hildreth, and McAuley is because the Boone County White is an imported corn brought from Iowa, Illinois, or Indiana and most of the corn of this variety grown in this State has not yet been fully adapted to our climatic and soil conditions. The Hildreth, Kansas Sunflower, and McAuley White Dent are native Kansas varieties, that is, these varieties have been grown in this State for a long period; possibly twenty years or more. We find, at this station, that our Boone County White is improving in yield the longer we grow it.

In your section of the State the Hildreth corn will succeed well, especially on fertile bottom land. The Kansas Sunflower is well adapted for growing on any good corn land in Franklin County and the McAuley White Dent may give a little larger yields than the Boone County White. The McAuley White Dent is very similar to the Boone County White only it is a little later in maturing. However, the Boone County White is an excellent variety of white corn and I doubt whether you are making any mistake in growing this variety either for seed production or feed.

We could sell you enough seed of any of the varieties named to plant

forty acres provided you order at once, but we would not care to sell you all first grade seed or even second grade seed. Would wish you to take at least part third-grade seed. You will observe from circular No. 12 that our third-grade seed is really excellent seed, being well-bred and it will germinate perhaps as well as either of the other grades of seed. We have tested the germination of some of our third-grade seed and the least germination was 95 per cent; the highest 99 per cent. Find prices in circular No. 12, which has been mailed to you.

A. M. TENEYCK.

Horticulture

California Fruit Shipments.

The Southern Pacific Railroad reports that during the season ending October 31, 1906, 5,930 cars of deciduous green fruit were shipped east from California. This season to November 1, 7,048 cars. This has been the banner year in the green fruit business. California has received more money net than during any previous season. Many cars of fruit brought over \$2,000 each, while cherries in a number of cases ranged from \$3,000 to \$5,000 per car.

The total Northern California shipments of vegetables, green deciduous and citrus fruits during the season just closing have been 10,912 cars, nearly a thousand more than last year. From Southern California the shipments via all lines were 27,533 cars of citrus fruit and 3,477 of vegetables.

The prospect for this season is good. Since October 1, more than 450 cars of deciduous fruit and 1,400 cars of oranges and lemons have been shipped from Northern California, a far greater number than during last year's corresponding period. The present outlook for the Southern California citrus fruit crop is 32,000 cars—vegetables 4,000 cars—this season.

Fumigation of Nursery Stock.

Prof. P. J. Parrott, formerly of Kansas, now of the New York Agricultural Experiment Station, Geneva, N. Y., writes as follows:

The fumigation of nursery stock before shipment is now practised by many nurserymen in the Eastern States. The growing demand for treated stock makes the fumigatorium, or "gas house," a necessary adjunct to the modern nursery plant, if one wishes to cater to public demands or to successfully meet competitors practising fumigation. While it is true that the treatment of stock by hydrocyanic acid gas is not an absolute guarantee of the immunity of the trees from insect pests, still it is a commendable practise. The gas is one of the most penetrating and destructive of our insecticides, and all trees that have been carefully treated by it should be free from the insects commonly disseminated by the nursery trade. To obtain the best results the work should be done under the direction of a competent person, who should select the stock to be treated and direct the various details of compounding the chemicals and handling the fumigation.

ESSENTIALS FOR FUMIGATION.

The essentials for fumigating nursery stock with hydrocyanic acid gas are: (1) Chemicals; (2) a suitable vessel in which to mix them; and (3) an air-tight box or chamber to hold the stock while it is being treated.

CHEMICALS AND FORMULA.

The chemicals that are needed are: (1) Fused cyanide of potassium; (2) sulfuric acid and (3) water. The cyanide should be guaranteed 98-99 per cent, while the best grade of sulfuric acid, having a specific gravity of at least 1.83 should be used. These chemicals may be purchased from local druggists or from wholesale dealers in druggists' supplies. Tap, well, or rain water, that is clean, may be used. In handling the chemicals care should be exercised not to spill the acid upon the clothing or the person.

The cyanide is a deadly poison, and should be carefully labelled and stored, when not in use, in a safe place to prevent accidents. Nurserymen should not use the cheaper grade of cyanide.

The following formula is recommended for use in fumigating clean, well-matured dormant stock. For each one hundred cubic feet of space in the room use

- Potassium cyanide. . . . . 1 oz.
Sulfuric acid. . . . . 2 ozs.
Water. . . . . 4 ozs.

DIRECTIONS FOR FUMIGATING.

For combining the chemicals one should use earthenware dishes or jars of about one gallon capacity. There should be one vessel for each pound of cyanide. If more than one jar is used, distribute them at even intervals in the room. Place in each jar the required amount of water, and then gently pour in the acid. When the nursery stock is in place and everything is ready for the final operation, drop in the cyanide which is contained in a paper bag. For the safety of the operator, each bag should be suspended by a string over the jar containing the liquid. The main supporting string may be operated from the outer door, so that all the bags may be lowered at the same time in their respective vessels. The door should then be closed, displaying a danger card. After thirty or forty minutes of fumigation, all doors and windows should be opened and the room should be ventilated for at least ten minutes before any one enters. The gas is most deadly, and one should be very careful not to get a breath of it.

A room or box to be used for the treatment of stock should be air tight. Provision should be made for a quick and thorough ventilation. The fumigatorium should be in a convenient position and should be located so that the escaping gas will not interfere with other operations of the nursery. Descriptions of practical fumigating plants are given in bulletin 174 of the New York Agricultural Experiment Station.

Directions for Spraying.

BY THE HORTICULTURAL DEPARTMENT OF THE KANSAS STATE AGRICULTURAL COLLEGE.

APPLE.

Insects: Canker Worm and Codlin Moth.—Paris green just after falling of blossoms. A second application in two weeks or sooner if rains fall. Tent Caterpillar.—Paris green when first appear. Applications for codlin moth will catch other broods. Borers.—Dig out with knife or wire; wax wound.

Fungous Diseases: Scab, Bitter Rot, Black Rot, Leaf Spot, and Rust.—Copper sulfate solution just before the buds expand. Bordeaux mixture after the blossoms fall and every two weeks after, or after each rain. Blight.—Cut off well below affected parts and burn.

CHERRY.

Insects: Curculio.—Jar insects off in early morning into sheets and destroy. Spray with Paris green in Bordeaux mixture after blossoms fall.

Fungous Diseases: Leaf Spot and Brown Rot.—Copper sulfate solution just before buds swell. Bordeaux mixture after blossoms fall.

GRAPE.

Insects: Leaf Hopper.—Burn trash in winter. Spray with kerosene emulsion. Twig Borer.—Cut away and burn all old canes.

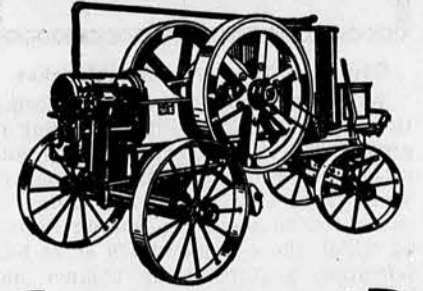
Fungous Diseases: Black Rot, Powdery Mildew, Downy Mildew, Anthracnose.—Copper sulfate solution before buds open. Bordeaux mixture on the appearance of any of the diseases.

PEACH.

Insects: Curculio.—Same as for cherry. Borer.—Mound earth around trees in spring, causing female to lay eggs higher. Destroy cocoons in spring. Dig out borer with knife or wire and wax wound.

Fungous Diseases: Brown Rot and Leaf Curl.—Copper sulfate solution

OLDS ENGINES



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just before buds swell. Bordeaux mixture after blossoms fall.

PEAR.

Insects: Codlin Moth and Borers.—Same as for apple. Fungous Diseases: Same as for apple.

PLUM.

Insects: Curculio.—Same as for cherry. Fungous Diseases: Brown Rot, Leaf Curl, Plum Pockets, and Rust.—Same as under peach.

RASPBERRY AND BLACKBERRY.

Insects: Dig out and destroy badly affected plants. Fungous Diseases: Orange Rust, Leaf Spot and Anthracnose.—Copper sulfate solution just before buds expand. Bordeaux mixture just before blossoms and after old canes are removed. Destroy all affected canes.

STRAWBERRY.

Insects: Leaf Roller.—Paris green when no fruit is on plants. Mow off and burn foliage as soon as crop is off. Fungous Diseases: Leaf Spot.—Bordeaux mixture just as growth is starting and just before bloom. Remove and destroy old leaves in thinning.

CABBAGE.

Insects: Green Worm.—Paris green as soon as worms appear and as often as they appear. Pyrethrum powder after heads form.

CUCUMBER.

Insects: Striped Beetle.—Keep ground free from trash in winter; pick; spray with Paris green. Aphid.—Spray with kerosene emulsion. Dust with lime and caustic potash.

ONION.

Insects: Maggot.—Dig out and destroy all affected plants. If badly affected destroy entire crop. Rot.—Cut out and destroy all affected plants. Mildew.—Bordeaux mixture.

POTATO.

Insects: Beetle.—Paris green as soon as they begin to defoliate plants. Fungous Diseases: Scab.—Soak uncut potatoes used for planting in solution of 1 ounce corrosive sublimate to 15 gallons water for two hours; or two hours in Bordeaux mixture. Blight.—Bordeaux as soon as it appears on leaves.

SQUASH.

Insects: Bug.—Keep ground free from trash, destroy old bugs, pick and destroy eggs, trap nymphs by laying boards in ground, and gather and destroy. Spray nymphs with kerosene emulsion.

TOMATO.

Insects: Worm.—Hand pick insects as fast as they appear. Fungous Diseases: Blight.—Bordeaux mixture. Rot.—If badly affected by rot, grow in better-drained land.

INSECTICIDES.

Paris Green: 1 pound Paris green, 225 gallons water, 2 pounds lime. Mix Paris green with milk and lime which has been strained and add to water. Dry.—1 pound Paris green, 40 pounds lime dust.

London purple, green arsenoid or lead arsenate may be used in place of Paris green. Kerosene Emulsion: Two gallons kerosene, 1 gallon sour milk, or 1/2 pound hard soap, 2 gallons kerosene, 1 gallon boiling soft water. Dissolve soap in water, allow to cool, add kerosene and emulsify.

Both of the above are emulsified by agitating until united. This may be done with a churn. A force-pump is often used. To use, add one part of either of above to fifteen parts water.

COPPER SULFATE SOLUTION.

Fungicides: One pound copper sulfate, 25 gallons water. To be used when trees are not in leaf. To keep the sulfate in stock solution suspend in burlap in water at rate of 1 pound to 1 gallon.

Bordeaux Mixture: Four pounds copper sulfate, 6 pounds lime, 50 gallons water. Strain both the solutions of lime and copper sulfate and add to water. In applying, mixture should be kept well stirred. All parts in contact with copper sulfate must be of brass.

Paris green may be added to the above solution at the same rate as is mentioned under Paris green.

Progress and Advantages of Irrigation Farming.

EDITOR KANSAS FARMER:—It is twenty-seven years since the writer first landed in Minnesota, having moved there when a young man from central Illinois. My first venture was the purchase of a 1,000 acre farm near Halleck, Kittson County. Since then I have had to do with the agricultural advancement of both Minnesota and North Dakota in various ways, but when I determined that I had reached a time of life when I wanted to live in a country having a mild climate; where I could raise plenty of fruit of all kinds, and be in the open air and not be obliged to wear so many clothes in the winter; where I could be able, if I wanted, to go out on my lawn in October or November and gather roses or pansies in full bloom, I decided I would start on a tour of exploration in search of such a country. I have always been passionately fond of fruit-raising and of flowers and I want to be in a country where I can see them in bloom many months of the year. Finally, after years of unavoidable delays in carrying out my resolution, I disposed of my interests in Minnesota and Dakota and started upon the eventful trip.

As I traveled westward, over the railroad, I took a good look at Montana on the way. That State does not show up very well viewed from the cars, but when I left the train and made trips over some of its agricultural valleys, I found a splendid and prosperous country, indeed—wonderful for wheat and oats and barley of enormous yield; a fine stock country and a prosperous land, but still not what I wanted, for I kept steadily in mind my determination to find a place where the finest fruit would grow, fruit that could have no peer anywhere, and a country where I could gather the midwinter rose in full bloom in the open.

I came on west to Spokane and looked over the Palouse and Big Bend countries. They are regions of great extent and have no rival as wheat-growing countries. Farmers by the score have made great fortunes there raising wheat; in fact, they have made so much money on account of the enormous and certain yields that many of them have retired and become bankers and bought big business blocks in the larger cities of the State, like Spokane, Tacoma, and Seattle. Still I did not find there what I wanted, and I came on westward to the central part of the State of Washington, determined to find the very best fruit-raising spot on the Pacific Coast. I looked over the far-framed Wenatchee and Yakima Valleys and found there what I wanted. Both were originally sage-brush deserts, but now they are marvelously prosperous, densely populated fruit-raising communities, oft-times making profits of from \$500 to \$4,000 per acre in a single year from an acre of apples, pears, peaches, apricots, cherries, and other fruits.

But I found that in these developed irrigated countries where profits were so incredibly large the prices of irrigated lands were somewhat beyond my means. Much of that land in the last 10 or 15 years has increased in value from \$125 per acre to \$1,000 to \$2,000 per acre, and even more. Of course this would be natural where such immense profits were known to be possible from the fruit raised on these lands. I therefore decided to look around a little and try to find some new irrigated country possessing the same soil and climate as that of Yakima and Wenatchee.

I went to Kennewick, where the Northern Pacific railway crosses the Columbia River, and found a fine country there; it has been under irrigation for only four years now, but land has quickly risen in value until choice desert land, suitable for fruit raising and that can be irrigated, has gone as high as \$300 and \$500 an acre. It is surprising how quickly land jumps up in

value in these warm, fruit-raising, irrigated countries.

At Kennewick I found that the Great Northern and the Northern Pacific railroads have combined to build a low-grade railroad westward along the Columbia River to Portland and Puget Sound, the railroad being built on the north side of the Columbia River all the way from Kennewick to Portland. This road is being built without regard to expense, in order that it may become the finest low-grade, heavy traffic line anywhere on the Pacific Coast. Thousands of men and teams have been at work on it for 18 months and it is going to be open for traffic on the first of January 1908, only a few weeks from the time I write this letter.

I made up my mind I would explore the country along this road, for I knew I certainly might expect to find a new irrigated country where irrigated land would be of the best quality, in a choice climate, and at a low price. I took a construction train from Kennewick and started westward. After passing along the new road for 50 miles, I came to the new town of Patterson, situated in southern Benton County, 50 miles west of Kennewick and on the north side of the Columbia River, right at a point where a wheat country consisting of hundreds of thousands of acres must find an outlet for its immense crops, for shipment either by railroad or by steamboat on the Columbia River. I believe I have found here what I want, but think this letter is long enough and will tell your readers in another letter about this country and the advantages I have found here. HOMESEKER. Benton County, Wash.

There are still several localities in Kansas and Oklahoma where THE KANSAS FARMER does not have regular resident representatives. The pay is good and sure. The work is pleasant and profitable. Write us about it.

"When a boy has a fight mother says, 'Did you get hurt?' Father says, 'Did you spoil your clothes?' Brother says, 'Did you lick him?'"—From a Cheerful Year Book.

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HIDES, FURS, JUNK A. GOLDBERG, Iola, Kans. References: Allen Co. State Bank, Iola State Bank. If you wish to sell large lots at home, write me and I will call. Write today for price lists and shipping tags.

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## The Jews.

Once verily, O mighty Czar, your crown was justified. When from your place among the thrones your lifted spirit cried: "Let there be no more wars on earth, let weary cannons cease." Well was it, Ruler of the North, that Caesar should say "Peace!" But yet from Russia comes a cry of souls that would be free; A cry from the windy Baltic runs down to the Euxine Sea. It is the cry of a people, of a people old in grief. A people homeless on the earth and shaken as the leaf.

Listen a moment with your heart and you will hear, O Czar, There in your clear gold spaces under the great North Star— There in your Arctic silences swept clean of base desire, Where the unseen watcher reaches up the awful Fan of Fire. Around you is the vastness and the wondrous hush of snow; That you may hear their cry in the night and let the captives go. Have they not kindly lineage, have they not pedigree? Are they not wrapt with wonder, like the darkness of the sea?

They come out of the night of years with Asia in their blood, Out of the mystery of Time that was before the Flood. They saw imperial Egypt shrink and join the ruined lands; They saw the sculptured scarlet East sink under the gray sands; They saw the star of Hellas rise and glimmer into dream. They saw the wolf of Rome draw suck beside the yellow stream, And go with ravenous eyes ablaze and jaws that would not spare. Snarling across the earth, then, toothless, die upon his lair.

And have they not had grief enough, this people shrunk with chains? Must there be more Assyrias, must there be other Spains? They are the tribes of sorrow, and for ages have been fed On brackish desert-wells of hate and exile's bitter bread. They sang the elegies that tell the grief of mortal years; They built the tomb of Pharaohs, mixing the bricks with tears; They builded up fair cities with no threshold for their own; They gave their dust to Nineveh, to Babylon their moan.

After tears by ruined altars, after tolls in alien lands, After wallings by strange waters, after lifting of vain hands, After cords and stripes and burdens, after ages scorched with fire, Shall they not find the way of peace, a land of heart's desire? Shall they not have a place to pray, a place to lay the head? Shall they not have the wild bird's nest, the fox's frugal bed? Men's eyes are on you, mighty Czar; the world awaits the word; The blood-splashed gates are eager, and the rusted bolt has stirred! —Edwin Markham, in The Israelite Alliance Review.

## New Year Resolutions.

The ancients were much given to the observance of times and seasons. They supposed that human ills came as visitations of wrath from some displeased deity, and that this wrath was excited by some of the misdeeds of the objects of the wrath. The sun worshipers of the northern hemisphere may have supposed that this munificent orb fled away to the south periodically on account of his displeasure at the wickedness of the people. That they besought him to return was natural.

What could be more appropriate to their beliefs and their desires than that they should earnestly resolve and sincerely promise to mend their ways as an inducement for the speedy return of the sun with his warmth and revivifying power!

The date of the solstice was long ago worked out. The resumption of the movement of the sun towards the north naturally became a time for rejoicing as well as for the perfection of good resolutions.

Thus it appears that the custom of forming New Year's resolutions is very old. It is grounded in the religious fear of people who lived before histories were written.

But good resolutions are worth while. A "new leaf" is better turned than unturned, even though it is morally certain that in no case will the record inscribed upon it be as perfect as the resolutions would have it. Let the ancient custom live. While it is now known that the course of the sun varies not on account of any human

deeds or misdeeds, yet the benefit derived by the best of us as well as by the worst of us from a resolute turning towards the good, the true, and the beautiful makes it well worth while that we continue and improve upon the hereditary tendency to make new and better resolves at New Years.

## Our Homes and Public Spirit.

The cultivation of the spirit of patriotism in the home is too often neglected and boys are left to gather here and there, anywhere, their knowledge of politics and public affairs, but too often they come to their majority and cast their first vote with very little knowledge. Margaret Sangster speaks wisely on the subject in the Woman's Home Companion:

A chief duty incumbent on American women, in whose hands as mothers and teachers rests the early training of boys, is to cultivate a spirit of patriotism. The schools do what they can, and do it very nobly, to inculcate in boys and girls alike love of country and loyalty to the flag. This training should begin in the nursery and be as vital breath in young lives before children so much as cross the schoolroom threshold. The field of politics should invite our young men, nor should older men be indifferent to their share in molding the destinies and shaping the internal and external policy of this great country. Good men and true, educated men, gentlemen in the highest sense of that fine old term, should not leave politics to demagogues or allow the interests of the State to be at the mercy of those who are greedy of gain and are in search of spoils. Both fathers and mothers must share the task of leading the young, and particularly the growing boys to know and care about the politics that control the country. Each home should stand on a strong foundation of principle, and parents having convictions should impress them on their children. The power of the unit, the strength of the personal equation, is the determining factor in the stand the country makes for righteousness.

In a family where the affairs of the world are discussed at the table, where the children are familiar with the problems that confront the Nation, where something bigger than the chance gossip of the town, something more important than the flavoring in the dessert, the filling in the cake and the plumes on Emily's hat are the topics of dinner-table talk, the young people will grow up with views, political favorites, and a consciousness that in this country it must be each for all and all for each.

A young man reaching his majority should eagerly anticipate his first vote, and his father should set him the example of strong partisanship based not on prejudice, but on principle. We women ought to look to it that our children early begin to widen the horizon and care for things beyond the garden gate and the railway station that leads from the little borough to the greater world. Our homes should stand for integrity, for unstained honor, for purity, for generosity to the alien, kindness to the poor, and cordial fellowship with the good in every land.

## A Mother's Influence.

"Y-yes, I know it's God, but mothers help a lot!"

The little boy who said this (in answer to somebody's statement that it is God who makes people good) had the right idea of a mother's influence. It is one of the blessed arrangements in God's plan that he lets the mothers help.

There are mothers who hinder. That seems a hard thing to say, but it is true. They usually do it by trying to help too much, and too obviously. It is a very little while that babies ought to go in leading-strings. Or, at least,

the strings ought to be so fine as to be almost invisible. Early in the game of life the little people ought to be allowed to find their own places in the playground, to begin to fight their own battles, to bear their falls and bruises and to learn from them.

Did you ever see a little fellow try to help his father carry a big basket of apples from the orchard? How proud he is to strain and tug! He was told that he might help, but he wants to do the whole. Gradually he spreads his little fingers over the handle, and very likely gets in front of the basket, then comes disaster. He moves it a foot or two, then pitches over and the apples all go rolling.

This is a parable of the way some people try to help God in his plan of bringing children up to noble manhood and womanhood. They want to do it all. Not one woman in a hundred can realize that God is bringing up her children. All he is permitting her to do is to help. When she nags them constantly, worries continually because they outgrow the kilts and baby-dresses of goodness, tries to be too intimate a providence in their daily lives, she has begun to hinder. Give the boys and girls a long rope. Keep one end in your own hand, to be sure, but always give them a sense of freedom. Nothing so makes for growing manliness and womanliness.

There are beautiful ways of helping, and the children soon come to look to you for these, if you are not too officious with offers and out-reachings. Teach them to use all their little wisdom in the settlement of daily problems; they will soon come to the end of their small store, and ask you to help.

"I never say 'I would' or 'I wouldn't' to my children," says one wise mother, "until they come and ask me, and then I don't, if I can help it. I try to help them to use their own judgment."

"Why didn't you knock on the window or something, so's to remind me, mother?" said a boy half reproachfully, one day when he had forgotten some errand and gone off skating. "You saw me going."

"I won't be either memory or conscience for you, my boy," was her serene answer. The boy was silent, but afterward he did not so easily forget.

A mother's influence must always be on the side of goodness. Her children must know where to find her. But it should be an influence, not an obviously controlling force. All efforts at character-building are futile which interfere with a child's personality or rob it of self-activity. "Just see how tame it is!" said a child who had caught a fly and pulled off all its legs and wings. It is not in such ways that we are to try to tame the wild, free impulses of childhood.—Congregationalist and Christian World.

## Things a Mother Should Know.

That eating between meals is destructive to the digestion and the health of children.

That when giving a bath to a young child, the cold water should be put in first and then the hot. Doing the reverse has led to many cases of scalding.

That permanent injury to the feet often results from allowing children to wear too tight or ill-fitting boots and shoes.

That the neglect of thorough drying after washing, especially in frosty weather, often causes little children to be badly chafed.

That children should never be allowed to read, write, or work in a bad light, as this practise is ruinous to their eyesight.

That very long walks are injurious to young children.

That a frequent cause of neuralgia in the head, sore throat and sore eyes, is from washing the hair at bedtime, and neglecting to dry it thoroughly before the children are put to bed.

That babies often contract bronchitis from being kept out when chill mists are falling after sunset in autumn and winter.

That it is a very dangerous thing to allow strong sunlight to shine on the

## The Modesty of Women

Naturally makes them shrink from the delicate questions, the obnoxious examinations, and unpleasant local treatments, which some physicians consider essential in the treatment of diseases of women. Yet, if help can be had, it is better to submit to this ordeal than let the disease grow and spread. The trouble is that so often the woman undergoes all the annoyance and shame for nothing. Thousands of women who have been cured by Dr. Pierce's Favorite Prescription write in appreciation of the cure which dispenses with the examinations and local treatments. There is no other medicine so sure and safe for delicate women as "Favorite Prescription." It cures debilitating drains, irregularity and female weakness. It always helps. It almost always cures. It is strictly non-alcoholic, non-secret, all its ingredients being printed on its bottle-wrapper; contains no deleterious or habit-forming drugs, and every native medicinal root entering into its composition has the full endorsement of these most eminent in the several schools of medical practice. Some of these numerous and strongest of professional endorsements of its ingredients, will be found in a pamphlet wrapped around the bottle, also in a booklet mailed free on request, by Dr. R. V. Pierce, of Buffalo, N. Y. These professional endorsements should have far more weight than any amount of the ordinary lay, or non-professional testimonials.

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bare head of a baby or little child, as they easily fall victims to sunstroke. Their heads should be protected carefully from the sun in summer.

That it is very injurious to a baby's eyes to allow a glare of light to shine on them.

That impure air—as in unventilated rooms, for instance—is even more injurious to babies than to grown people.

That a cat or dog should never be left alone in a room where a baby is, cats having been known to suffocate infants by lying upon them.—New Zealand Dairyman.

How to Help the School-Teacher.

See to it that in so far as possible the home conditions and life of the child be such as will tend to make him most efficient in his school life and interested in his work.

As to particulars, encourage him to always speak respectfully of his teacher; inquire into his daily life and the tasks which are assigned at school; insist on punctuality and regularity of attendance, as one session away from his class may seriously impede his progress for many days thereafter, and can never be fully made up; discourage all outside interests and entertainments which tend to impair his vitality or the interest in his school duties.

If he has home lessons assigned, provide such assistance and encouragement as will insure their proper preparation; require him to go to bed early and to arise in season, eat his breakfast properly and start for school clean and with all the equipment required for the day's work.

Give him good, nourishing food, instead of fancy pastry, candy, and pickles, which ruin his digestion and retard his mental activity; insist on his having a good amount of vigorous exercise in the open air each day and a proper amount of sleep in well-ventilated, airy rooms; make it a point to know who his companions are and how he spends his time while out of your sight.—Boston Schoolmaster in The Herald.

The Footpath to Peace.

To be glad of life because it gives you the chance to love and to work and to play and to look up at the stars; to be satisfied with your possessions, but not contented with yourself until you have made the best of them; to despise nothing in the world except falsehood and meanness, and to fear nothing except cowardice; to be governed by your admirations rather than by your disgusts; to covert nothing that is your neighbor's except his kindness of heart and gentleness of manners; to think seldom of your enemies, often of your friends, and every day of Christ; and to spend as much time as you can, with body and with soul, in God's out-of-doors—these are little guide-posts on the foot-path to peace.—Henry Van Dyke.

Keeping in Love.

Remember that keeping in love is as much the profession for a man as it is the art for a woman, and that love feeds on little delicacies rather than on meat and drink. Don't forget the little things, dear, and the big ones will take care of themselves. I have seen much of men and manners in my life, and they have taught me that it is the small failings, not the big faults, which are deadliest to love. Why I've seen a romantic passion survive shame, and treachery, and even blows, and another wither out of existence before the first touch of bad breeding.—From the Deliverance, by Ellen Glasgow.

Do you want to make a nice bunch of money without interfering with your regular business? If so, it may be that there is an opportunity waiting you as special representative of THE KANSAS FARMER in your locality. We pay cash. Just write us about this matter.

Rats are overrunning Berlin. A society with the title "Rattenvertilgungszwerkverband" has been formed for their destruction. The name should be enough!

The Young Folks

A Song of New Year's Vows.

Make your New Year's resolutions. Any little contributions To the sum of human virtue Will please others and won't hurt you. Start the new year as you ought to: Don't say, "These will come to naught too."

With your spiritual ablutions Make your New Year's resolutions.

Swear off drinking, swearing, smoking; Never heed the threadbare joking. Now's the time, if you're intending, As you should, to be amending, Shake off habit's galling fetter And resolve you will do better. You won't find the executioner's Easy—but make resolutions.

Make your New Year's resolutions. Things that wreck your constitutions And create your ills internal Leave alone. Yes, keep a journal, If you like, and still endeavor From all habits bad to sever. Virtue's bounds, do not o'erleap 'em; Make your New Year's vows—and keep 'em. —Chicago News.

Lost.

O harken to what we have to tell! They say that he went at the stroke of a bell—

Our good Old Year! That never a soul hath seen him go, Out through the sparkle of stars and snow

He passed, ere the sound of that bell was spent, And we know not even the way he went—

Our good Old Year!

So now we are looking and search well To find the Ringer who rang the knell Of our good Old Year. For what have we done to be treated so? He was our friend; ay, well we know By what beautiful ways in the summer day,

With what wonderful tales in the twilight gray, He hath made him dear!

And what we may do we will not tell Should we find that Ringer with rope and bell!

But this is clear, He shall send one peal as a warning to you:

"Hear, all good folk! Make the most of the New! Guard the hours while yours! Now heed us well, For we lost at the very last stroke of a bell

Our good Old Year!" —Selected.

Opportunity Everywhere.

Supt. H. G. Russell, of the Greenfield schools, who has been very successful in attracting and inspiring young men, gave the following encouragement in talking to the boys of the Groust Farm Encampment near Winchester. He said that it is false that it "knocks at the door of every man but once."

America is but another name for opportunity. France has eight persons to our one per square mile, Europe has nearly four to our one. The United States has 12 per cent better land than Europe. Haven't you better opportunities than the boys of France and Europe? Our danger is that of becoming extravagant, of failing to learn the lessons of systematic saving and certain economy so necessary for the European boy to earn, learn, and practise.

DO MORE THAN YOUR FATHERS.

Greater responsibility goes with greater opportunity. You should do more than your fathers have done. Each generation should do more than the preceding one, else there can be no progress. The world's work is not done; it is getting bigger all the time. There is still as much more to do as there is to learn. Get ready for the world's work.

THE FINEST OPPORTUNITIES NOW.

There were never before as many and as fine opportunities as now. Everyone can work at wages that will enable him to live and save something, but the greater demand is near the top. The bullder of a railroad showed me three vacant chairs in his office and told me he would pay \$2,500 per year to persons who could fill them and do the work. They had been vacant for three months. He also said that he had advertised for common laborers and got a train load.

BIG DIFFERENCE IN WAGES.

I watched with great interest the building of a church in our little city. The workmen who excavated the earth received \$1.50 per day. The stone masons who followed, received \$4 per day, the brick masons \$6, the man who

Advertisement for Simpson-Eddystone Solid Blacks. Includes text: 'Three generations of Simpsons have made', 'Ask your dealer for Simpson-Eddystone Solid Blacks', 'The economical quality-fabric; durable cloth and fast color.', and an illustration of a woman in a dress.

Advertisement for Topeka Business College. Includes text: 'The School that always gets you a good position in', 'BOOKKEEPING SHORTHAND TELEGRAPHY CIVIC SERVICE or PENMANSHIP', and a signature 'J. H. Strickler'.

Advertisement for Central Business College. Includes text: 'YOU CAN SAVE \$15, and secure home instruction in Penmanship or Shorthand free until you enter college by writing at once. Central Business College, 122-14 Grand Ave., Kansas City, Mo. 50-page catalog free.'

did the frescoing \$15 per day and the architect \$25 per day. The man who put on the finishing touches of beauty and the man who carried that building in his head before a stroke was made toward its erection received the highest prices for their services. ITS WHAT WE DO WITH OPPORTUNITY. By diligent inquiry I learned that all these different workmen had about the same opportunity in early life. Then why were some reaping so much better rewards than others? Boys; the reason is plain. Some made good use of their opportunities and others did not. The opportunities come to all alike.

RENOUNCES THE OLD MAXIM. It is said that opportunity knocks once at the door of every man, and that the one who was out knocks ever afterward. The first part of the statement is not true unless you make the "once" read "all the time." Opportunity is with you all the time. Great corporations are constantly looking for men of brains and character; men who can do something that is needed in the world's work. Learn to do something that is useful and do it well and your fortune is made if you will keep at it.

LEARN TO DO AND TO THINK. This is an age of doing. Be able to "deliver the goods" and you will be wanted. The test is doing. Learn how to think and you will soon know what to think. A man is of little value until he can take care of himself. Learn to take care of yourself and help others to the same high standard.

An honorable calling is any calling that makes a man stronger for the world's work; anything that needs to be done for the advancement of our civilization. Do not all try to get into professions. Do not let your parents kill themselves trying to make and save for you. Make and save for yourselves.

SOME THINGS TO DO. The man who will find a cure for hog cholera will do the world more good than the man who can repeat Homer in the original. The man who can destroy the chinch bug is worth more than the man who can exhume a Troy or uncover a Pompell. Direct your talents along lines that you fit, and add something to the sum total of human knowledge. Give more than you receive, it wont hurt you, but will help instead.

THE FOUNDATION FOR DOING. Be clean and strong to stand in the face of temptation any time anywhere and remain clean. Be strong enough to go anywhere and remain untainted.

Advertisement for Spalding's Commercial College. Includes text: '10th & Oak Sts., KANSAS CITY, MO. BOOK-KEEPING, SHORTHAND, TYPEWRITING, TELEGRAPHY and ENGLISH BRANCHES. Gymnasium and Auditorium. 10 TEACHERS and Lecturers. Free Employment Bureau. New Building with elegantly equipped rooms. CATALOGUE "E" Free. 42nd Year. J. F. Spalding, A. M., Pres't.'

Advertisement for Salt City Business College. Includes text: 'SALT CITY BUSINESS COLLEGE HUTCHINSON, KANSAS' and a small illustration of a building.

Advertisement for Lawrence Business College. Includes text: 'Lawrence Business College, Lawrence, Kansas. Address Lock Box F.' and a small illustration of a man.

Advertisement for Preparatory School for Business Whitmore Business College. Includes text: 'Book-keeping, Shorthand, and Business Courses. 100's of positions, big wages, pleasant work for young men and women. Don't delay—Start now. Special Rates. Write A. R. Whitmore, Prop., St. Joseph For Particulars & Catalogue.'

Advertisement for Iola Business College. Includes text: 'THE BEST BUSINESS EDUCATION IS NONE TOO GOOD FOR YOU. OUT OUT AND MAIL TO Iola Business College IOLA, KANSAS.' and a small illustration of a man.

Advertisement for 'WANTED' section. Includes text: '50 young men to learn telegraphy and station accounting and earn from \$8 to \$125 per month. We have railroad wires giving actual experience, making it a practical school. Indorsed by A. T. & S. F. Ry., Write for illustrated catalogue. Santa Fe Railway and Telegraph School, 501 Kansas Ave., Topeka, Kans.'



every hour of the day; truth and falsehood look one another in the face all the time; sin and hate lurk in the dark corners everywhere, but be strong enough to look ahead, go your way, and be clean. The world is asking for men who do not have to shun temptation, but who can face it and be clean. Choose your course, stick to it, do not complain, and be a man. Move out of Grumbleville, turn your face toward the noonday sun, sing the song of good cheer, be honest, truthful, and upright, and the gates of opportunity will swing open to you, and remain open as long as you live.

**Brother and Sister.**

The love of a sister for a brother stands apart from every other love in the world, if but for this cause—that it is the only affection which can truly survive and withstand the administration of home truths.

The most tender of parents are well aware that such must be sparingly administered indeed, if they are to retain the love and the confidence of their offspring; whilst if not nature, at least civilization forbids a child to communicate his opinion of their merits or demerits to the authors of his being.

The most romantically attached husbands and wives know that, if the mirror of truth be held up too often to the weaknesses of human nature, the illusion on which all romance is primarily based must vanish. The lover dare not blame his mistress overmuch, lest love should be drowned in resentment; nor must the friend treat his friend's feelings roughly lest he lose his friendship.

But the brother may say what he will to his sister; may deride her absurdities, label her faults, repel her caresses, scatter her prejudices; and if she loves him, she but clings the closer.

The relationship, at its best, is the perfection of human comradeship; with all life's earliest memories to sanctify it, and every hope and ambition for the future to lend it an interest which can only increase with years.—Mrs. Henry de la Pasture, in *The Lonely Lady of Grosvenor Square.*

**They Sleep Hanging Up.**

There is one animal which lives entirely in trees, but is able to maintain its position during slumber without the least exercise of muscular force. This is the sloth, common in the forests of tropical America. Its long claws are so bent that they hook over the branches and allow the creature to hang upside down like an animated hammock. Curiously enough, the hammock appears to be a South American invention and is universally employed by all the Indian tribes of the Amazons. Perhaps the primitive human dwellers in this region took to sleeping in hammocks after observing the habits of the sloth.

The great ant eater, which is both a kinsman and fellow countryman of the sloth, has an enormous tail, which it uses in a very remarkable manner. I recently saw two of these strange animals lying together asleep, and they had arranged their tails so cleverly their whole bodies were hidden from view. Moreover, it was evident that this caudal covering would afford excellent protection from the weather, for the central solid part of the tails acted as a kind of ridge pole over the highest part of the sleepers' bodies, so that the long fringes of hair sloped downward on each side like the thatch upon a roof.

Like the sloths, many kinds of bats sleep suspended by their hooked claws without any muscular exertion whatever. Some of the large fruit-eating bats of the tropics, which do not sleep in holes like the species common in southern latitudes, but which hang suspended to the branches of trees in the open air, adopt a position which it would be difficult to beat for economy and comfort. Gould's fruit-eating bat, common in the warmer parts of Australia, suspends itself upside down by one hind foot and wraps its body in the tentlike folds of its wing membranes, which extend right down to the

ankles. Its shoulders, to which the membrane is attached, are humped up so as to act as eaves to shoot off the rain, and when asleep it draws its head under their shelter and nestles its nose among the warm fur of its chest.—Baltimore Telegram.

**The Earth's Motion.**

A LITTLE EXPERIMENT BY WHICH IT MAY BE DEMONSTRATED.

Take a good sized bowl, fill it nearly full of water and place it upon the floor of the room which is not exposed to shaking or jarring from the street. Sprinkle over the surface of the water a coating of lycopodium powder, a white substance which is sometimes used by ladies in making their toilet and which can be purchased from any druggist. Next upon the surface of this coating of white powder make with powdered charcoal a straight black line, say an inch or two in length. Having made this little black mark on the surface of the contents of the bowl, lay down upon the floor close to the bowl a stick or some other straight object, so that it will lie exactly parallel with the charcoal mark. If the line happens to be parallel with a crack in the floor or with any stationary object in the room, this will serve as well.

Leave the bowl undisturbed for a few hours, and then observe the position of the black mark with reference to the object it was parallel with. It will be found to have moved about and to have shifted its position from east to west—that is to say, in the direction opposite to that of the movement of the earth upon its axis. The earth in simply revolving has carried the water and everything else in the bowl around with it, but the powder upon the surface has been left behind a little. The line will always be found to have moved from east to west, which is perfectly good proof that everything else contained in the bowl has moved the other way.—Selected.

**The Little Ones**

**The New Year.**

The wind blew there and the wind blew here,  
And brought from Somewhere the small New Year.  
It tapped for him at each door and pane  
And never once was a knock in vain!  
All good folks waited the coming child,  
Their doors they opened and on him smiled.  
Inside he stepped, with a happy face,  
And softly slipped in the Old Year's place.  
Said he: "I bring you a Box of Days,  
Tied round with tissue of rainbow rays;  
I give it joyfully, for I know,  
Though all days may not with gladness glow,  
Each gift holds some precious bit of cheer  
To win your thanks," said the sweet Child Year.  
—Kindergarten Review.

**A Happy New Year.**

From Oregon to Texas, from Florida to Maine,  
The pleasant New Year's greetings are flying like the birds;  
And if we can remember  
All their meaning till December,  
We shall fill the days with kindly deeds  
and loving, thoughtful words.  
—By Anna M. Pratt, in *The Youth's Companion.*

**Julia.**

My Julia was a sweet dolly. I had spent many happy hours sewing her dresses and playing with her. One time her husband got killed in the war, so I had to make a new set of clothes, all black, and a black crepe bonnet and veil, for her; but mostly she wore white and had a happy expression on her face.

I was absent from the house, jumping rope on the pavement, one day, when a lady and her little daughter came to call on my mama. During the call some one gave the child my Julia to play with. That was all right, of course; but when they were going away the girl cried to take my dolly along! My sister came out and found me, and asked if I would give the little visitor my Julia.

Of course I said, "No, indeed!"  
But my sister coaxed me a great deal and told me that the little vis-



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**Leading Lady**

"LEADING LADY" shoes are everything that their name implies. They are leaders in women's fine shoes. These three words describe them best—STYLE, COMFORT, SERVICE. You rarely find ALL these qualities combined in one shoe. In character and quality, they meet the requirements of the most exacting.


*Mayer* **Leading Lady**  
**SHOES**

are neat and dressy. They are made to gratify the demands of those who desire the correct thing in ladies' foot-wear. Perfect fit and extreme comfort from the beginning. Better values are not obtainable anywhere.

If you don't find Leading Lady Shoes at your dealer's, write to us. The MAYER trade mark on the sole, identifies them and guarantees the value.

We also make the "MARTHA WASHINGTON" COMFORT SHOES, "SPECIAL MERIT" SCHOOL SHOES, and "HONORBILT" FINE SHOES FOR MEN.

**F. Mayer Boot & Shoe Co.,**  
MILWAUKEE, WIS.



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A liquid made from hickory wood. Imparts the delicate flavor that is peculiar to meats smoked with hickory wood. USED BY APPLYING THE CONDENSED SMOKE WITH A BRUSH. Send 10c and names of five who cure meat and we will mail you sample free. Sold only in square quart bottles with metal cap. Never in bulk. At druggists, 75c per bottle. Bottle smokes a barrel.


**FREE BOOKLET** on curing meats **Be Sure You Get "Wright's Condensed Smoke."**

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**A FLAG FOR EVERY SCHOOL HOUSE**

The last Kansas Legislature enacted a law (Chapter 319, Laws of 1907), requiring school officers to provide and display an American flag on each school house in Kansas.

The publishers of *The Kansas Farmer*, Topeka, Kans., have procured a supply of standard American flags sufficient to supply each school district in Kansas. These flags are to be given as premiums and the patrons of each district can, by clubbing their subscriptions together, secure a flag of suitable size and quality with no expense to the district. Flags of standard wool or cotton bunting—any size desired.

Very many districts have already been supplied. Flags can be shipped on short notice. Order at once and send the subscriptions later. Have a new flag for the new year. Every teacher should urge his patrons to have the flag and have it now.

For sizes of flags and other particulars, address

**THE KANSAS FARMER CO., Topeka, Kans.**



The Handy Doctor in Your Vest Pocket

IT'S a thin, round-cornered little Enamel Box- When carried in your vest pocket it means Health-Insurance.

It contains Six Candy Tablets of pleasant taste, almost as pleasant as Chocolate.

Each tablet is a working dose of Cascarets, which acts like Exercise on the Bowels and Liver.

It will not purge, sicken, nor upset the stomach.

Because it is not a "Bile-driver," like Salts, Sodium, Calomel, Jalap, Senna, nor Apert Waters.

It is like Castor Oil, Glycerine, or other Laxatives that simply lubricate the Intestines for transit of the food stopped up in them at that particular time.

The chief cause of Constipation and Indigestion is a weakness of the Muscles that contract the Intestines and Bowels.

Cascarets are practically to the Bowel Muscles what a Massage and Cold Bath are to the Athletic Muscles.

They stimulate the Bowel Muscles to contract, expand, and squeeze the Digestive Juices out of food eaten.

They don't help the Bowels and Liver in such a way as to make them lean upon similar assistance for the future.

This is why, with Cascarets, the dose may be lessened each succeeding time instead of increased, as it must be with all other Cathartics and Laxatives.

Cascarets act like exercise.

If carried in your vest pocket, (or carried in My Lady's Purse,) and eaten just when you suspect you need one, you will never know a sick day from the ordinary ills of life.

Because these ills begin in the Bowels, and pave the way for all other diseases.

"Vest Pocket" box 10 cents.

Be sure you get the genuine, made only by the Sterling Remedy Company, and never sold in bulk. Every tablet stamped "CCC."

tor was crying very hard, and could not be comforted, and would not give the dolly up. She told me beside that I was almost too big to play with dolls any longer.

So at last I consented to give my dear Julia to the spoiled child, who cried for what was not hers! When I went in, by and by, she was gone. None of the big people ever knew how lonely and unhappy I was without my precious doll.

It was a whole year before I saw the visitor again, for she did not live in the same city. When I saw her—it was in a shop—I walked up to her and said, "How is Julia? Where is Julia?"

Will you believe it? She did not remember my Julia that she had cried to take away from me!

I went home very sad and indignant. I thought a girl who could take my Julia, and then lose her and forget all about her, must have a heart of stone. —Faith Webster, in Little Folks.

Club Department

Officers of the State Federation of Women's Clubs.

- President.....Mrs. Eustace H. Brown, Olathe
Vice-President.....Mrs. C. H. Trotter, Junction City
Rec. Secretary.....Mrs. F. B. Wheeler, Pittsburg
Cor. Secretary.....Mrs. Charles C. Shoales, Olathe
Treasurer.....Mrs. C. W. Landis, Osborne
Auditor.....Mrs. M. S. Munson, Eldorado
General Secretary.....Mrs. C. C. Goddard, Leavenworth
General Director.....Mrs. W. A. Johnson, Topeka

Our Club Roll

- Excelsior Club (1902).....Potwin, Butler Co.
Women's Literary Club (1902) Osborne, Osborne Co.
Women's Club (1902).....Logan, Phillips Co.
Domestic Science Club (1888).....Osage, Osage Co.
Ladies' Social Society No. 1, (1888).....Minneapolis, Ottawa Co.
Challiso Club (1902).....Highland Park, Shawnee Co.
Cultus Club (1902).....Phillipsburg, Phillips Co.
Literateur Club (1902).....Ford, Ford Co.
Star Valley Women's Club (1902).....Tola, Allen Co.
West Side Forestry Club (1902).....Topeka, Shawnee Co.
Fortnight Club (1902).....Grant Township, Reno Co.
Progressive Society (1902).....Rosalia, Butler Co.
Pleasant Hour Club (1890).....Wakarusa Township, Douglas Co.
The Lady Farmer's Institute (1902).....Marysville, Marshall Co.
Women's Country Club.....Anthony, Harper Co.
Richardson Embroidery Club (1902).....Madison, Greenwood Co.
Prentiss Reading Club (1902) Cawker City, Mitchell Co.
Cosmos Club.....Russell, Kans.
The Sunflower Club (1906).....Ferry, Jefferson Co.
Chaldean Club (1904).....Sterling, Rice Co.
Jewell Reading Club.....Osage Co.
The Mutual Helpers (1906).....Madison, Kans.
West Side Study Club (1906).....Delphos, Ottawa Co.
Domestic Science Club (1906) Berryton, Shawnee Co.
Mutual Improvement Club (1903).....Vermillion, Marshall Co.
Clilo Club (1897).....Columbus, Kans.
Centralia Reading Circle.....Nemaha Co.
White Rose Branch (1907).....Syracuse, Kans.
Cedar Branch (1907).....Lookeba, Okla.
(All communications for the Club Department should be directed to the Club Department, Kansas Farmer, Topeka, Kans.)

From the Youngest.

The youngest club on the roll sends this encouraging report, I hope all the other clubs will follow its example and write something about themselves.

Our club was organized August 14, with nine charter members. We now have twenty-two names on roll. We have missed two meetings. All the members take such an active part in our meetings, and we have great encouragement for success the coming year.

We have some very interesting subjects for discussion, in our new year book, such as keeping our boys on the farm, training the children, sending our girls away to school, and cooking a husband.

We gave an oyster supper Thanksgiving eve, clearing \$11.90, and all of us had a jolly good time. Our club would be pleased to receive letters from any other club, giving us new ideas.

We are glad that Mary Storey Whittitt, in her letter to THE KANSAS FARMER did not forget there was such a club as Cedar Branch. Lookeba, Okla. LOLA MAYBERRY.

The Woman's Kansas Day Club will hold its annual meeting this year on January 29, in the auditorium of the Manual Training High School. The meeting in the afternoon will be followed by a reception in the evening. The program will be announced next week.

The Kansas Traveling Library, in which the club women are always interested, has entered about four hundred new books, three hundred of them for the juvenile department.

THE FARMER'S WIFE

Is very careful about her churn. She scalds it thoroughly after using, and gives it a sun bath to sweeten it. She knows that if her churn is sour it will taint the butter that is made in it. The stomach is a churn. In the stomach and digestive and nutritive tracts are performed processes which are almost exactly like the churning of butter. Is it not apparent then that if this stomach-churn is foul it makes foul all which is put into it?

The evil of a foul stomach is not alone the bad taste in the mouth and the foul breath caused by it, but the corruption of the pure current of blood and the dissemination of disease throughout the body. Dr. Pierce's Golden Medical Discovery makes the sour and foul stomach sweet. It does for the stomach what the washing and sun bath do for the churn—absolutely removes every tainting or corrupting element. In this way it cures blotches, pimples, eruptions, scrofulous swellings, sores, or open eating ulcers and all humors or diseases arising from bad blood.

To aid in healing old sores, or ulcers, apply Dr. Pierce's All-Healing Salve to them while taking the "Golden Medical Discovery" to purify and enrich the blood.

Dr. Pierce's All-Healing Salve is cleansing and pain relieving. It destroys the bad odors arising from suppurating, or running, sores and puts them in the best possible condition for healing.

The "All-Healing Salve" is a superior dressing for all open, running, or suppurating, Sores or Ulcers. For healing open wounds, cuts and scratches it is unsurpassed.

If your medicine dealer does not have the "All-Healing Salve" in stock mail 50 cents in postage stamps to Dr. R. V. Pierce, Buffalo, N. Y., and you will receive it by return post.

In treating all open sores, or ulcers, boils carbuncles and other swellings, it is important that Dr. Pierce's Golden Medical Discovery be taken persistently to purify the blood and thereby remove the cause of the trouble. It is in the blood that the great battle of health has to be fought. The ulcer and the sore are simply the scarlet flowers of disease, with roots running down into the blood. These roots must be eradicated or the disease will break out afresh. "Golden Medical Discovery" cleanses the blood of all foul and poisonous accumulations, pushes out the dead and waste matter, and thus purifies the entire life current. Disease in the flesh must die out when it is no longer fed by foul blood. "Golden Medical Discovery" effectively cures disease in the flesh by curing its cause in the blood.

If you have bitter, nasty, foul taste in your mouth, coated tongue, foul breath, are weak and easily tired, feel depressed and despondent, have frequent headaches, dizzy attacks, gnawing or distress in stomach, constipated or irregular bowels, sour or bitter rising after eating and poor appetite, these symptoms, or any considerable number of them, indicate that you are suffering from biliousness, torpid, or lazy liver with the usual accompanying indigestion, or dyspepsia and its attendant derangements.

The best agents known to medical science for the cure of the above symptoms and conditions, as attested by the writings of leading teachers and practitioners of all the schools of medical practice, have been skillfully and harmoniously combined in Dr. Pierce's

Golden Medical Discovery. That this is absolutely true will be readily proven to your satisfaction if you will but mail a postal card request to Dr. R. V. Pierce, Buffalo, N. Y., for a free copy of his booklet of extracts from the standard medical authorities, giving the names of all the ingredients entering into his world-famed medicines and showing what the most eminent medical men of the age say of them.

Cures Woman's Weaknesses.

We refer to that boon to weak, nervous, suffering women known as Dr. Pierce's Favorite Prescription.

Dr. John Fyfe one of the Editorial staff of THE ECLECTIC MEDICAL REVIEW says of Unicorn root (Helonias Dioica) which is one of the chief ingredients of the "Favorite Prescription":

"A remedy which invariably acts as a uterine invigorator... makes for normal activity of the entire reproductive system." He continues "in Helonias we have a medication which more fully answers the above purposes than any other drug with which I am acquainted. In the treatment of diseases peculiar to women it is seldom that a case is seen which does not present some indication for this remedial agent." Dr. Fyfe further says: "The following are among the leading indications for Helonias (Unicorn root). Pain or aching in the back, with leucorrhoea; atonic (weak) conditions of the reproductive organs of women, mental depression and irritability, associated with chronic diseases of the reproductive organs of women; constant sensation of heat in the region of the kidneys; menorrhagia (flooding), due to a weakened condition of the reproductive system; amenorrhoea (suppressed or absent monthly periods), arising from or accompanying an abnormal condition of the digestive organs and anemic (thin blood) habit; dragging sensations in the extreme lower part of the abdomen."

If more or less of the above symptoms are present, no invalid woman can do better than take Dr. Pierce's Favorite Prescription, one of the leading ingredients of which is Unicorn root, or Helonias, and the medical properties of which it most faithfully represents.

Of Golden Seal root another prominent ingredient of "Favorite Prescription," Prof. Finley Ellingwood, M. D., of Bennett Medical College, Chicago, says:

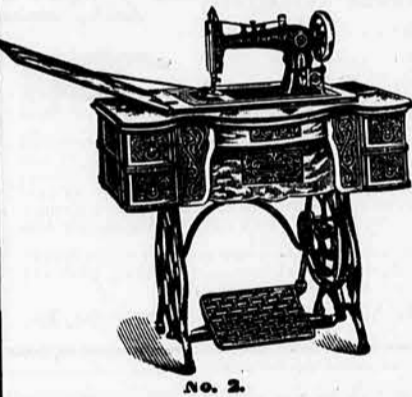
"It is an important remedy in disorders of the womb. In all catarrhal conditions and general enfeeblement, it is useful."

Dr. Pierce's Favorite Prescription faithfully represents the above named ingredients and cures the diseases for which they are recommended.

Dr. Pierce's Pleasant Pellets are the original Little Liver Pills, first put up by old Dr. Pierce over 40 years ago. Much imitated, but never equaled. Easy to take as candy.

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**Dairy Interests**

**Cottonseed-Meal for Dairy Cows.**

EDITOR KANSAS FARMER:—In answering to an inquiry of your subscriber about feeding cottonseed-meal to dairy cows, will say that when properly fed, cottonseed-meal is one of the cheapest and best concentrates for feeding dairy cows, since it is so rich in protein, the kind of food required by the dairy animal in the production of milk. We have fed large quantities of cottonseed-meal, even as high as five pounds a day, for four months, with apparently no ill effects.

We have at hand Bulletin No. 131, of the South Carolina Agricultural Experiment Station, on cottonseed-meal and corn silage, as a ration for dairy cows, and we note among other conclusions of the author, that "Cottonseed-meal when fed in conjunction with good corn silage, may be fed to the extent of from five to six pounds per cow, daily, without affecting the health of the animals. Indeed, such a ration appears to keep cows in an unusually good state of health."

We find at the prices quoted, that a pound of the digestible nutrients, would cost in chop, 1.77 cents, bran 2.21 cents, cottonseed-meal 2.07 cents. The total of the nutrients, however, does not represent the true feeding value of these foods, since some of them are much richer in protein, than others. Every farmer should raise all of the roughage necessary, for feeding his stock, and buy only small amounts of protein, to balance up the ration. Under such circumstances, the comparative value of these feeding stuffs, based on their protein content, would be as follows: a pound of protein in chop, would cost 18.77 cents, in bran 9.84 cents, and in cottonseed-meal 3.69 cents.

With plenty of good prairie hay and corn stalks, the dairy cow should receive six to eight pounds of grain mixture, bran and meal a day, depending upon the size of the animal and the yield of milk, up to three gallons of milk per day. Animals giving a larger yield of milk the grain ration would have to be increased.

The feeding value of skim milk for pigs depends upon the amount fed at one time. It is more valuable when fed in limited quantities and in connection with corn or some other concentrate. When corn is worth 50 cents a

bushel the average value of skim milk is about 20 cents a hundred.

Cottonseed-meal has been fed to work horses successfully, and is found to be a very valuable and cheap food for balancing their ration. All horses do not eat the meal at first, and care should be taken to feed it only sparingly when being fed to them for the first time. While as high as four pounds of cottonseed-meal has been fed to work horses, we would not recommend more than two pounds for a day's feeding. We would not advise feeding cottonseed-meal to brood mares.

It is dangerous to feed cottonseed-meal to calves and pigs. We have a great many experiments, which go to show that it would not be safe to feed these animals cottonseed-meal.

The calf should be fed oil-meal or corn, with plenty of roughage always at hand where he can nibble at it.

J. C. KENDALL,

Dairy Department, Kansas State Agricultural College.

**A Talk on Bacteria in Milk.**

VALANCEY E. FULLER IN PRACTICAL DAIRY-MAN.

If every dairyman had a more complete knowledge of the origin and habits of bacteria, it would be money in his pockets if he were to apply such knowledge. The purpose of this talk is to explain the origin of the germs found in milk.

Milk, as elaborated in the cow's udder, is free from bacteria; but unless precautions are taken (which are often too expensive for the ordinary farmer) it always contains bacteria.

**NATURE AND GROWTH OF BACTERIA.**

These germs are always grouped in "colonies;" and in referring to them it is usual to say that there are so many bacteria in so many cubic centimeters (c. c.). A cubic centimeter is about 15 drops of milk.

The number in each cubic centimeter will depend on the cleanliness of the cow; the cleanliness of the air of the stable in which she is milked; the cleanliness of the utensils, and of the milker himself.

There are over 200 kinds of bacteria in milk, but those we most often have to deal with are known as the lactic acid, or souring bacteria, the putrefactive and the butyric bacteria.

When the milk is first drawn from the udder, there are a greater number of bacteria present than when it is two or three hours old, provided the milk has been reduced to a temperature that will retard their growth. This is due to the fact that some of the bacteria do not find it a good medium in which to grow, and so die.

**THE LACTIC ACID BACTERIA.**

Lactic acid bacteria, which form lactose, from their action on the sugar of milk, are not harmful except to the milk itself, when, after multiplying by hundreds of thousands and up to a million per c. c., they cause it to sour. The butyric and putrefactive bacteria, on the contrary, which come from such substance as manure, which find their way into the milk, are harmful, causing infantile diarrhoea and ptomaine poisoning.

**COOLING RETARDS THEIR GROWTH.**

Bacteria are the smallest forms of organic life, and are vegetable in their nature, not animal, as many suppose. They are so tiny that if 30,000 of them were laid side by side, they would not reach over an inch in space. They multiply very rapidly, usually breaking in two at intervals of twenty minutes, so that at the end of an hour, where there was one, there are eight.

We do not need to be told that if we plant corn in ground that is only 50 degrees in temperature, it would not grow. Bacteria in milk, being vegetable in their nature, can not grow if we keep the milk at a temperature of 50 degrees or lower; hence the necessity of keeping it cold to retard their growth.

A number of carefully conducted experiments have shown that the original number of bacteria in fresh milk, per c. c. averages 7,377. When fresh milk was cooled immediately after being drawn from the udder into a sterile



**NEW 1908 DE LAVAL CREAM SEPARATORS**

struction, ease of cleaning and replacement of parts; less cost of repairs when necessary; easier hand operation; more complete separation under hard condition, greater capacity, and a material reduction of prices in proportion to capacity.

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separators—skim twice as clean. Prof. J. L. Thomas, instructor in dairying at the agricultural college of one of the greatest states in the Union, says: "I have just completed a test of your separator. The skimming is the closest I have ever seen—just a trace of fat. I believe the loss to be no greater than one thousandth of one per cent." That is one reason why you should insist upon having the Tubular. Tubulars are different, in every way, from other separators, and every difference is to your advantage. Write for catalog S-165 and valuable free book, "Business Dairying."  
**The Sharples Separator Co.,**  
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receptacle and was held at 50 degrees for five hours, the number of bacteria was then found to be 48,000 per c. c.; when 12 hours old, 45,000; when 24 hours old, 33,000; but at the end of 36 hours they had multiplied to 692,000. When the milk was cooled immediately to 68 degrees and held there for six hours, the bacteria had multiplied to 47,000; at 12 hours to 360,000; at 18 hours to 7,200,000.

**THE BEST WAY TO COOL MILK.**

Dairymen will see at a glance how important it is that milk should be cooled immediately when drawn from the udder of the cow, to 50 degrees, and retained at that temperature until delivered at the shipping station or the creamery.

The best way to cool it is to use running water, if that is as low as 50 degrees; if not, to have a tank filled with water and ice in a clean, sweet place, wholly disconnected with the milking stables.

All cans should be thoroughly sterilized before using; that is, cleansed with scalding water and allowed to



The World's Most Famous Cream Separator  
**Empire Cream Separator Co.,**  
Bloomfield, N. J.

dry, upside down. If the water is hot enough, they will dry thoroughly.

Before milking begins, place these cans, with tops on, in iced water, or in running water, if cold enough—not over 50 degrees. Just as soon as the milk is drawn from the udder, pour into the cans; and so on with each cow until the can is filled. Each time you pour in the fresh milk, stir it around well, so that the whole contents of the can will come in contact with the outer chilled surface. If this is not done, it will take a much greater time to chill the milk, and in the meantime the bacteria will increase. Many peo-



ple believe that the stirring is to remove the animal odor from the milk; that is an exploded theory. If one were to say it was supposed to remove the odors caused by dirt and filth, it would come nearer the mark, as what it called the "animal odor" is not natural to the milk. If milk has been drawn under perfectly cleanly conditions, there is no odor in it, and such milk does not need aeration.

**A CERTIFIED MILK METHOD.**

Last year I visited a farm where certified milk was made for the New York market, and where the bacterial count was as low as 500 and rarely exceeded 1,500 per c. c. The practise adopted there was to pour the milk while warm from the cow into sterilized bottles, cap them with paraffined caps and then throw them into tanks of water of a temperature of 35 degrees—iced. This milk certainly had no animal odor; otherwise it never would have been passed by the Milk Commission of the Medical Society of the County of New York, under whose certification it was sold.

It should be the object of every farmer to make as clean milk as he possibly can. There are many ways by which bacteria get into the milk. The object of this talk is to show how we can retard their growth by rapid cooling, and keeping a low temperature. The process is so simple that any person who desires to produce clean milk can, if he wishes, deliver it to the creamery or shipping station so cool that the growth of bacteria has practically been brought to a standstill.

**SANITARY MILK PAYS.**

There has been an ever increasing demand for clean milk; as the consuming public learns its value, this demand will continue to increase. Some firms buy what they call "Selected" milk, and at a higher price than that paid for ordinary milk, based on the bacterial contents. This will grow too, and the farmer who makes clean milk can secure a higher price for his produce than he who is content to make only the ordinary market milk in the old, careless, profitless manner.

**The Grange**

**The National Grange for Good Roads.**

EDITOR KANSAS FARMER:—The National Grange, with nearly one million members, representing the agricultural interests of the Nation, has undertaken to secure recognition of the urgent necessity for a broad, comprehensive policy of public road improvement. It believes that the time has arrived when the problem of the deplorable condition of our roads in general must be seriously considered by the various township, county, and State authorities, and prompt action taken to remedy existing conditions; and that the National Government should lend its assistance to a movement having for its objective point the establishment of a complete system of properly constructed highways.

The farmers in all sections of the country are convinced that they are not receiving their fair share of the benefits from Federal expenditures, and that the improvement of the public roads is as equally deserving of a share in the annual appropriations as is the improvement of our rivers and harbors.

Many hundred millions of dollars, in the form of cash subsidies or land grants, have in the past been given to private railway companies to assist in the construction of railroads, and there is no good reason why a portion of the money taken by taxes from the people of the whole country should not now be appropriated in aid of better public roads.

The agricultural papers of the country can be of great assistance in this movement, by advising their readers as to its importance, and urging them to use their influence with their Senators and Representatives in Congress to secure the enactment of legislation for this purpose. I will be indebted to you if you will take occasion to editorially refer to the subject, and suggest that the farmers should bring all

possible influence to bear on Congress, with a view to securing favorable action at the present session.

N. J. BACHELDER,  
Master National Grange.  
Concord, New Hampshire.

**The Grange for Tariff Revision.**

At its annual meeting recently held at Hartford, Conn., the National Grange Patrons of Husbandry adopted the following resolutions concerning the tariff:

Whereas, for the protection of our American manufactures it has been deemed necessary to place a tariff upon various articles of import, and

Whereas, the tariff upon many articles has resulted in the building up of gigantic monopolies, by stifling foreign competition and enabling large American manufacturers to sell their goods cheaper in foreign countries than at home, at the expense of American agriculture and many lesser industries, therefore be

Resolved, by the National Grange in Hartford, Conn., assembled November 13, 1907, that we believe that the general welfare of the country demands an exhaustive and thorough tariff revision, and that the tariff be removed from every article that is continuously being sold in foreign markets cheaper than at home.

Resolved, That we urge upon the members of the grange throughout the United States to take speedy actions and use every influence at their command to secure the carrying out of the sentiments of these resolutions.

There are still several localities in Kansas and Oklahoma where THE KANSAS FARMER does not have regular resident representatives. The pay is good and sure. The work is pleasant and profitable. Write us about it.

Face the "lion in the way" and find it a liar. It is only dangerous when you run away from it.

Better raise something to sell than grumble about the market.

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**T**HE dairy farmers of Kansas have prospered in 1907 as never before. This is true, not only through the sale of a larger amount of dairy products than in any preceding year, but also in the production of corn, wheat, cattle and hogs. This is the proof that dairying does not interfere with other lines of agricultural activity.

The cows will pay the taxes, buy the groceries and dry goods and pay the running expenses of the farm if given a chance. Every farmer should milk all the cows his help will permit—this is the rule generally conceded as a safe guide in dairy operations.

Cream these days returns the farmer cash and in all other respects the creamery business is conducted on strictly commercial basis. The entire dairy industry of Kansas is on a substantial and thoroughly business-like basis and while we are proud of the achievement to date we are confident that the possibilities of the future have only begun to be realized.

The Continental Creamery Company has been the leader in every advance movement connected with Kansas dairying. From the beginning we have educated, improved and extended not only the farm end of the dairy, but in the marketing of dairy products and the present development is very largely attributive to our efforts. We assure the dairy farmers of Kansas that we will lead in the future as in the past.

To our patrons of the eleven years past we express our appreciation of your patronage and assistance. We solicit your continued patronage and also solicit the patronage of your neighbors. We buy cream at nearly 500 points in Kansas and have facilities for handling double the business we have at each point. We have a big business now but it is one of our missions to extend this business until every cream producer in Kansas can avail himself of our market. If you are not within reach of one of our stations drop us a line and we can give you a market.

The following table shows the annual and aggregate production and value of butter made in Kansas for the eleven years ending with 1907, as compiled from the official records of the State Board of Agriculture:

	Pounds.	Value.
1897...	37,213,928	\$4,585,271
1898...	41,450,981	5,230,144
1899...	43,082,767	5,775,523
1900...	41,745,759	6,641,692
1901...	43,771,076	6,380,143
1902...	44,350,829	7,517,331
1903...	46,222,022	7,876,227
1904...	42,862,366	7,021,220
1905...	42,423,814	7,741,717
1906...	43,378,171	8,183,665
1907...	43,940,531	9,705,423
	470,442,244	\$77,248,356

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If you want a fine cockerel from my prize-winning strain write me at once. I have a fine lot and they won't last long. Prices \$1.50 up. Satisfaction guaranteed. A. H. Miller, Bern, Kans.

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W. P. Recks hold the record for egg-laying over every other variety of fowls; eight pullets averaging 289 eggs each in one year. I have bred them exclusively for twelve years and have them scoring 94 to 96%, and as good as can be found anywhere. Eggs only \$2 per 15; \$5 per 45, and I prepay expressage to any express office in the United States. Yards at residence, adjoining Washburn College. Address

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FOR SALE—A limited number of cockerels for sale of the Brown Leghorns, Model Anconas and Rhode Island Reds, all single combed. These are pure-bred and from prize winners. Prices reasonable. A. J. Vaughn, Oak Street Poultry Yards, Garnett, Kans.

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50 FINE COCKERELS, S. C. B. Leghorns. Suitable for farm flock; \$1 each. S. McHarg, Wakita, Ok.

FOR SALE—White Leghorn cockerels, very fine birds. Price \$1 and \$1.50. Eggs in season. Mrs. Lena Osborn, R. 3, Emporia, Kans.

R. C. B. LEGHORN cockerels and pullets; also Mammoth Pekin ducks, \$1 each. Eggs in season. Mrs. J. E. Wright, Wilmore, Kans.

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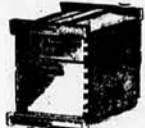
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CONDUCTED BY THOMAS OWEN.

**How They Score a Chicken.**

EDITOR POULTRY DEPARTMENT:—Your article on "How They Score a Chicken" is very instructive and of great value to poultry-breeders wishing knowledge upon judging of fowls, and many want just such information. Your scale of value of sections making the 100 points or perfection on Barred Plymouth Rocks is not our present standard. Your scale of value is the scale of the American, Asiatic, and English classes in prior standards. Our present standard was built for specialty judges, and specialty breeders and bears the earmarks of specialty clubs throughout. Every class has a different scale of value in our present standard, the American, Asiatic, Mediterranean, English, Hamburgs, and Polish all having different value to different sections, making the all-variety judges much study and work.

For Barred Plymouth Rocks and all American varieties the following is the scale of 100: Symmetry 8, weight 6, condition 4, head 6, comb 8, wattles and earlobes 6, neck 9, back 12, breast 10, body and fluff 6, wings 10, tail 9, legs and toes 6—total 100.

By this scale of value we now have 6 points each for color, for neck, back, and wings, 18 points for color on the three hard sections to get upon the Barred Rocks, and by the previous standards 12 was given to color upon these three sections, so now judges who have themselves posted must cut 1/2 more in these sections, and is there any wonder that Barred Rocks and Silver Wyandottes score so low, by our up-to-date judges? We can see much of value in I. K. Felche's decimal score card and far more uniform judging than can be done by the most studious, painstaking judge with our present jumbled-up scales of value.

Articles to set fanciers to studying and posting themselves are valuable to all alike, and we hope more such articles in your department in THE KANSAS FARMER will help to enlighten and profit your army of readers. Much of value must come from a study of our present standard to all true fanciers. They must study the breed, their shape and value in different sections to understand a score card after receiving them from our judges.

Carthage, Mo. C. A. EMERY.

**Poultry Notes.**

Next week, January 6 to 11, is Farmers' Week in Topeka. This is the time of the annual meeting of the State Board of Agriculture, also of the Kansas Improved Stock-Breeders' Association, and the Kansas State Poultry Association. In connection with the latter the State Poultry Show will be held during the whole week at the auditorium. The leading agriculturists and stock-breeders will be at these meetings and it will be a treat for the farmers to meet with them and profit by their instruction and teaching. It will pay any farmer to take a week off and attend these conventions.

While in attendance at a poultry show it is a good plan to be on the lookout for something to improve the quality of your fowls next breeding season. If you have only common barnyard fowls, a pure-bred cockerel of most any breed will improve them wonderfully. If you already have pure-bred fowls and wish new blood in your flock, there is no chance like the present, and you should take advantage of it. Fanciers will sell stock much cheaper now than in the rush of the breeding season and the chances are against them having any stock for sale when you want it most. Buy at the poultry show where you can see what you are getting and be prepared for an early start in poultry-raising in the spring.

The mild weather we have been having is conducive to active egg-lay-



MANSON CAMPBELL, President, The Manson Campbell Company, Ltd.

**Let My 50 Years Success Start You Right for Poultry Profits**

Whether you are an expert Poultry Raiser, or a Beginner, it will pay you, especially this year, to write me a postal for my New Free 1908 Chatham Incubator and Brooder Book on Poultry Science. My 50 years of practical experience in building Chatham Incubators and Brooders is told fully in this book. I tell you how you can start in the poultry business with a small amount of money and offer to prove to you on 5 years' guarantee that my machines are the best made. My 1908 book is so full of the latest improvements in chicken raising methods and practical information that no Expert or Beginner can afford to overlook it.

**Take 84 Days Free Trial of My Chatham Incubator**

If you are an Expert set a Chatham beside any other incubator in the world and prove at my risk for 84 days on 3 hatches that Chathams beat the rest.

If you are a Beginner, just hold off a day or two until you get my low factory prices direct to you—freight prepaid—and read my 1908 Book before you buy. Write a postal to me personally, now, to get it.

Learn all about our two immense factories—our new improvements and our ways of testing every machine at our own experimental station.

When a Chatham Incubator or Brooder leaves our factory to go to you it carries 50 years of successful experience with it and is an assurance of your success.

**New, Free Chatham Poultry Book**

It tells you how our \$500,000 invested in the incubator manufacturing business is really an investment back of every one of our thousands of customers to make them Successful Poultry Raisers from the time they start with Chathams.

Write me personally, today, for my New Book. Manson Campbell, Pres., The Manson Campbell Co., Ltd. 143 Wesson Ave., Detroit, Mich. Dept. 38 Kansas City, St. Paul, Portland, Ore., Nashville, Tenn., Harrisburg, Pa. We have 24 Branch Houses and Make Prompt Shipments.



Freight Prepaid

Direct From Factory Price

**Send Your Name to Johnson INCUBATOR MAN**

Right now and get a copy of his new, big, free Incubator Book, describing in detail Johnson's Famous

**"Old Trusty" Incubators & Brooders**

"Old Trusty" has been successful in the hands of more inexperienced beginners than any other incubator ever made. Absolutely automatic—takes less oil, and Johnson guarantees you will get 75 per cent hatches, or better.

**Johnson Pays the Freight and Gives 40, 60 or 90 Days' Trial**

Write today for his guaranty and low prices, and get his big book—a poultry book by a man who knows. 176 pages and every page a poultry sermon. More than 300 pictures and more good chicken sense than you ever saw before in any book. Send your name to



Johnson Pays the Freight

M. M. Johnson, Clay Center, Neb.

**Anybody Can Make Money WITH A QUEEN \$50.00 a Month made by Some**

There's good money in raising chickens if you get started right. If you get the right advice and help, and above all, if you get the right incubators and brooders. We've been in the chicken-raising business a good many years. That's what got us into the incubator business. We couldn't get machines that would give us the results we wanted, so we made our own after our own practical ideas. Since then we've sold over 50,000 successful machines. Queen Incubators are successful because

they are practical—run themselves—hatch vigorous chicks and lots of 'em—pay for themselves with one hatch. That's why their users are making from \$30 to \$50 from each machine they operate. Just send for our big, 100-page Free Queen Book—tells all about our 3 months' trial plan with 5 Years' guarantee. You can't fail with the Queen. We help you get started right and help you, as long as you want help. Write for book today. QUEEN INCUBATOR CO., Box 28, Lincoln, Neb.



**WALLACE INCUBATOR**



Invented by an experienced poultryman. Guaranteed to please. We give you a whole season to try it. So simple it can't get out of order. Perfect ventilation. Accurate self-regulator. No moisture needed. Sold direct

**FROM FACTORY TO USER**

The WALLACE BROODER is just as well made as the incubator. Sold on the same kind of guarantee. No trouble to raise chicks in it. Two compartments. Fresh air supplied constantly. Send for free catalog. Wallace Incubator Co., Box 36, St. Joseph, Mo.



**The Townsend Automatic Trap Nest**

Awarded first premium Kansas State Fair, 1906-07. Invaluable to poultry raisers. The hen, on going in, closes the gate behind her, shutting out all other fowls. At any time she wants out for food or exercise, she can easily release herself. By simply lowering a latch, it is converted into a "Trap Nest" that is absolutely reliable. These nests are manufactured under our own patent. Write us for information and testimonials from users. AGENTS WANTED. Address P. G. TOWNSEND & CO., 629 E. 6th, Hutchinson, Kans.



Profits from poultry-hints and helps that will mean dollars to you—all about Victor Incubators and Brooders—our guarantee—our payment of freight—why our machines produce 90 per cent hatches or better—all told in our new book "Incubator Whys." Write for free copy and let us know whether interested in large or small machines. Geo. Eriel Co. Quincy, Ill.

**125 Egg Incubator and Brooder Both \$10**

If ordered together we send both for \$10 and pay freight. Hot water, copper tanks, double walls, double glass doors. Our free catalog describes them. Wisconsin Incubator Co., Box 17, Racine, Wis.

**FAIRFIELD INCUBATOR**

Bids for your order on the strength of what it will do for you. You want the machine that won't take an expert to operate—that hatches every hatchable egg—a simple, durable, well-built incubator—that's the Fairfield. Our guarantee says: You must be satisfied, or no sale. Get new catalog and read the guarantee—the broadest ever put out by any incubator builder. Catalog's free—write, Nebraska Incubator Co., Box 1, Fairfield, Nebraska



**VARICOCELE**

A Safe, Painless, Permanent Cure GUARANTEED. 30 years' experience. No money accepted until patient is well. CONSULTATION and valuable BOOK FREE, by mail or at office. DR. C. M. COE, 913 Webster St. Kansas City, Mo.



**BIG POULTRY BOOK FREE**  
No matter how many poultry books you now have, send for ours too. Contains 128 pages of 15 years' rich experience in poultry raising—also tells all about the famous **Successful and Brooders** and shows you how to hatch and raise chicks for profit. CATALOG FREE. Book on "Proper Care of Chicks, Ducks, Turkeys & Geese"—10c. 50c Poultry paper, one year, 10 cents.  
Des Moines Incubator Co., 156 Second St., Des Moines, Ia.

**Prove This Incubator Yourself**  
While others are making all kinds of claims about incubators, and asking you to take them on faith, we give you an opportunity to try **The Favorite Sixty Days Free!** We pay the freight to and from your station for a real free trial. You know for yourself just what it is and what it will do.  
**FAVORITE INCUBATORS & BROODERS**  
are built of the very highest quality of materials, by the very best workmen, at the very lowest prices. They never fail. We don't let one go out of the shop that could fail. That's why we can afford to make this remarkable offer. Write today for our Free Incubator Book that tells all about them and gives sizes. Begin your trial at once.  
**Leahy Mfg. Co., 12 Talmage St., Higginsville Mo.**

**Hatch Chickens by Steam with the EXCELSIOR INCUBATOR OF WOODEN HEN**  
Simple, perfect, self-regulating. Hatch every fertile egg. Lowest priced first-class hatchers made.  
**GEO. H. STAHL, Quincy, Ill.**

**WYANDOTTES.**  
SILVER LACED WYANDOTTES from my prize-winners at reasonable prices. Cockerels scored by Atherton. J. H. Becker, Route 7, Newton, Kans.

WHITE WYANDOTTE hens and pullets 75 cents each. White Holland toms \$2.50, hens \$2. Cockerels all sold. Mrs. E. F. Ney, Bonner Springs, Kans.

FOR SALE—Golden Wyandotte cockerels; also a few M. B. turkeys. Cockerels \$1 and \$1.50. Eggs in season. A. B. Grant, R. 9, Emporia, Kans.

BROWN'S WHITE WYANDOTTES—Ahead of everything; stock for sale; eggs in season. I have the singular Fox Terrier dogs. Write me for prices and particulars. J. H. Brown, Clay Center, Kans.

AT PANIC PRICES—50 white Wyandotte cockerels, 10 pairs white Guineas, 1 pair W. H. Turkeys, 1 yearling Tom, 10 Indian Runner Drakes, 50 Poland-China hogs. Mrs. L. D. Arnold, Enterprise, Kans.

**BUFF COCHINS.**  
BUFF COCHIN cockerels, hens, pullets. Good enough for the show room. \$2 to \$5. Good Bros., Cimarron, Kans.

**BLACK SPANISH.**  
FOR SALE—Whitefaced Blank Spanish. Hens \$2 each. Cockerels \$2 each. pullets \$1.50 each. Chas Hobbie, Tipton, Kans.

**BUFF ORPINGTONS.**  
LARGE BUFF ORPINGTONS—The great winter layers. Cockerels for sale, eggs in season, prices reasonable. Mrs. Frank Henning, Route 1, Garnett, Ka.

ORPINGTONS—1,000 to sell to make room. Catalogue free. W. H. Maxwell, 1996 McVicar Avenue, Topeka, Kans.

CHOICE—Buff Orpington and B. P. Rock cockerels. Collie pups and bred bitches. Send for circular. W. B. Williams, Stella, Neb.

**RHODE ISLANDREDS.**  
PURE-BRED R. C. Rhode Island Red cockerels at reasonable prices. A. L. Scott, R. 1, Larned, Kans.

FOR SALE—Rose Comb Rhode Island Red cockerels; Duroc-Jersey boars; one registered Red Polled bull. I. W. Poulton, Medora, Kans.

**BLACK LANGSHANS.**  
BLACK LANGSHANS exclusively for 14 years. None better. Mrs. D. A. Swank, Blue Mound, Kans. R. B. 3.

BLACK LANGSHANS—Extra fine. Cockerels \$1.50, pullets \$1. Mrs. Geo. W. King, Solomon, Kans.

PURE-BRED WHITE LANGSHANS for sale. Hens \$1.25, pullets \$1 each; also a few silver Spangled Hamburg cockerels. Mrs. John Cooke, Greeley, Kans.

**BRAHMAS.**  
FOR SALE—Light Brahma and B. P. Rock cockerels; also Pekin ducks. Eggs in season. Miss Ella Burdick, Route 8, Emporia, Kans.

LIGHT BRAHMAS—None better east or west. Pairs of 4 hens, 1 cockerel, average better than 90 points. \$10 per. Cockerels to head your flocks. Write J. T. Edson, Schaller, Iowa.

**Light Brahma Chickens**  
Choice pure-bred cockerels for sale. Write or call on  
**Chas. Foster & Son, Eldorado, Kans. Route 4**

**MINORCAS.**  
COCKERELS FOR SALE—R. C. Black Minorcas White Wyandottes and W. P. Rocks. R. F. Meek Hutchinson, Kans.

**INDIAN GAMES.**  
FOR SALE—Jumbo strain Cornish Indian. A few cockerels. Eggs in season. L. C. Harst, Newton, Ka.

FOR SALE—A lot of high-scoring Cornish Indian Games. Apply to J. S. Sexton, Rochepot, Boone County, Mo.

**HAMBURGS.**  
SILVER SPANGLED HAMBURGS, B. P. Rocks. Fine cockerels. Good Bros., Cimarron, Kans.

**BROTHER!**  
On a camping trip in the mountains of North Carolina, I accidentally discovered a root that will cure both tobacco habit and indigestion. If you are a slave to either, let me send you particulars of this wonderful root.  
**C. H. Stokes, Mohawk, Florida.**

ing among the hens, and when a cold snap comes, as surely it will, it behooves us to take good care of the fowls so that the egg-laying may not be retarded. This consists of a warm, roomy house with the best of feed. Having these things, there is no reason why the hens should not keep on laying all through the winter.

**Poultry Pointers.**  
N. J. SHEPHERD, ELDON, MO.  
For winter feeding to fowls cottonseed-meal is an excellent substitute for meat, although the latter is still to be preferred when it can be cheaply obtained. Feed a little of the meal mixed in with the chopped food each day.

Poultry manure mixed with dry earth and shoveled over a few times to secure pulverization makes an excellent dressing for the lawn. It promotes a remarkable growth of grass, making it thick and giving it deep, nice color.

If your stock of fowls is pure-bred do not breed to some other kind, for whatever benefit may be derived from the first cross will be lost in the second, for the second generation will only be mongrels and usually lose the valuable points of their ancestors.

A dozen selected hens, mated with a choice cock, and the eggs from them used only for hatching purposes, is a sure mode of gradually increasing the quality of the stock, and by so doing the poultryman can make a selection of particular breeds at small cost.

While everybody can not readily obtain the same kind of food, nor quite the same kind of care, each one can produce a variety of food and give good care. The better the care and the more varied the food the better the result.

If the breeder wants to keep up the vigor of his stock he should never make a practise of breeding from pullets. The best breeders are hens in their second or third year mated to a cockerel or a cock one year younger than the hen.

Equal parts of bran and cornmeal mixed with water and baked hard is an excellent food for young chicks, especially if soaked in sweet milk before feeding.

**Farm Gates.**  
One of the best farm gates that has come to the notice of the writer is made in Kansas by E. W. Adams, Station A, Topeka, Kans., announcement of which appears regularly in our advertising columns. As shown by the illustration it is made of inch pipe, inside measure, and No. 13 stay wires, and what is better for our readers is that it is sold at a very reasonable price. Visitors who expect to be in Topeka during Farmers' Week are cordially invited to examine the same at the factory.

**Kansas City Live-Stock Market.**  
Kansas City, Mo., December 30, 1907. Light Monday receipts of cattle at all the markets, following a small supply last week, brought an advance of 10¢ to 15¢ on all classes to-day. Steers gained 15¢ to 30¢ early last week, but lost nearly all of it before the close Saturday. Cows and heifers advanced along with steers last week, and held the gain, closing strong, and 25¢ to 50¢ above the low time two weeks ago. Stockers and feeders were quiet all last week, with a small supply, and light attendance of country buyers. The advance to-day covers all kinds, as the supply of 6,000 head is not enough to go round, and the influence of light supplies elsewhere is also advantageous to sellers. Bulk of the supply is plain short-fed steers, top to-day only \$5.30, bulk of sales \$4.50 to \$5.25, best price last week \$5.55. The general market will likely be strong and healthy after the first of the year, if the receipts remain at the moderate volume anticipated. Cows, heifers, and butcher stuff are beginning to show their customary winter strength, cows a \$2.75 to \$4.25, heifers \$3.25 to \$4.50, a few sales of both cows and heifers up to \$5. Calves have sold strong right along, account of small supplies this month, market 25¢ higher to-day, top \$7, bulk of calves \$4 to \$6.50. Few range stockers and feeders have been here lately, although there will still be a considerable number marketed in the next few weeks. Stockers have been selling at \$2.80 to \$3.75, feeders \$3.50 to \$4.20.

Hogs were slightly less flighty last week, and the week closed with a net gain of about 10¢ per cwt. Run was 39,000 head last week, a few more than same week last year. Supply is 11,000 head to-day, market steady to 5¢ higher, top \$4.70, bulk \$4.50 to \$4.65. Heavy weights still lead in price, although a good fresh meat demand, and numerous shipping orders have improved the position of light weights during the past week. Pretty liberal marketing is expected in January, but present strength is expected to hold good by most dealers. The mutton market is showing some of its old-time strength in the last week, prices up 40¢ to 50¢ on both sheep and lambs in the last week. The run has been very light, and local condi-

**Special Want Column**

"Wanted," "For Sale," "For Exchange," and small want or special advertisement for short time will be inserted in this column without display for 10 cents per line of seven words or less per week. Initials or a number counted as one word. No order accepted for less than \$1.00.

**SEEDS AND PLANTS.**  
FREE—Our big illustrated Farm and Garden Seed catalog is now ready. It's mailed free to all who are interested in the crops they grow. Address, Ratin's Seed House, Shenandoah, Iowa.

FOR SALE—Alfalfa, clover, timothy, blue-grass, garden seeds, seed corn, etc. Everything of best quality. 1908 catalogue now ready, send for it. T. Lee Adams, 417 Walnut St., Kansas City, Mo.

WANTED—Seed sweet corn. Barteldes Seed Co. Lawrence, Kans.

**CATTLE**  
FOR SALE—Jersey bulls ready for service, \$40 to \$65, sired by Financial Count 6186, by imported sire and dam (his dam winner in class two years over land of Jersey). Five dams milked 20 to 25 quarts daily, and each a show ring and butter test (2 to 3 lbs. daily) winner. 15 Financial Count heifers for sale at \$50 to \$75. Sada Polo Jersey Farm, Parsons, Kans.

REGISTERED Holstein-Friesian bull for sale; 3 years old. J. E. Huey, R. 6, Sta. A, Topeka, Kans.

FOR SALE—28 head of registered Aberdeen-Angus cattle. These are the good kind, and are mostly cows and heifers. I am changing my business and these cattle will be sold at bargain prices. Call on or write Frank Wasson, Clearwater, Kans.

WHO WANTS this richly-bred Holstein-Friesian bull? De Gerben Shady Josephine 47583, calved July 19, 1906. The sire of this richly-bred bull is a grandson of the old 12-year-old cow, Gerben, which made more butter at the St. Louis Exposition than any cow in the test. The dam of this young bull made 17½ pounds of butter in seven days as a 3-year-old on common feed. I also have for sale a few Poland-China boars sired by On The Spot 429655, his dam by Chief Perfection 2d. H. N. Holdeman, Meade, Kans.

FOR BE Polled bulls or heifers, write to Otto Young, Uteca, Ness County, Kansas.

SPECIAL SALE—5 straight Cruickshank Short-horn bulls for sale at bargain prices for quality. H. W. McAfee, Topeka, Kans.

ABERDEEN-ANGUS CATTLE and Percheron horses, Stock for sale, Garret Hurst, breeder, Peck, Sedgwick County, Kans.

**HORSES AND MULES.**  
FOR SALE—My stallions, Jacks, brood mares and colts. R. E. Cowdrey, 112 Quincy St., Topeka, Kans.

PERCHERON STALLION FOR SALE—Owing to circumstances I am forced to sell my 7-year-old registered Percheron stallion. He is sound, kind, big, has a fine action and is a perfect show horse. Will fully guarantee him. Terms: Cash, approved notes, or will trade for cattle. J. B. Weldon, Eureka, Kans.

TWO JACKS FOR SALE—3 and 4 years old, Missouri bred. Address S. C. Hedrick, Tecumseh, Kans.

FOR SALE—One black team, 6 and 7 years old, weight 2600 pounds. Mr. and Mrs. Henry Schrader, Wauneta, Kans.

**SWINE.**  
10 PEDIGREED Duroc-Jersey boars and 40 bred gilts cheap. Chas. Dorr, Osage City, Kans.

FOR SALE—The great Poland-China herd boar Duke Ellington 117658, sired by Connector, dam by Chief Son 2d. Farrowed April 27, 1906. A splendid individual, no better breeding anywhere. Price \$75. J. H. Brown, Bassettville, Kans.

FOR SALE—Duroc-Jersey pigs, both sexes, March and April farrow, by Financier 46301. Raised for usefulness. Farmers prices; pedigree furnished. Also R. I. Red cockerels. Ben Warren, Maple Hill, Kans.

TWO HERD BOARS FOR SALE—Joe Cannon by Red Raven and out of Faust's Pride, a Kant-Be-Beat sow, and Colossal by Golden Rule, the boar at the head of Watt & Faust herd. Grant Chapin, Green, Kans.

**MISCELLANEOUS.**  
EVERLASTING FENCE POSTS, any soft wood; receipt 25c. M. Trego, Woodward, Okla.

FOR SALE—80 head of Shropshire ewes, bred to registered ram. Have rented farm; must sell. J. B. Kelley, Sterling, Kans.

SELL TOBACCO AND CIGARS locally or traveling; salary or commission; full time or sideline; good pay; promotion; experience unnecessary. Address Morotock Tobacco Works, Box B 49, Danville, Va.

EQUIPMENT for the manufacture of Concrete Fence Posts. Territory assigned. Agents wanted. Address The Paragon Concrete Fence Post Co., 622 Minnesota Ave., Kansas City, Kans.

WANTED—By experienced agricultural college graduate, a position as manager of an up-to-date dairy farm. Preferably in Kansas or Colorado. E. E. Greenough, Manhattan, Kans.

WANTED—A second-hand traction engine, not less than 16 horse power. Dr. W. D. Barker, Chanute, Kans.

RURAL BOOKS—Send for descriptive list of books for farmers, gardeners, florists, architects, stock raisers, fruit growers, artisans, housekeepers and sportsmen. Sent free. Address The Kansas Farmer Company, Topeka, Kans.

**LEGAL.**

First published in Kansas Farmer December 12, 1907  
**Publication Notice.**  
In the District Court in and for Shawnee County, State of Kansas.  
Ansel M. Eldson, Plaintiff vs. Callista W. Eldson, Defendant. Case No. 24735.  
The State of Kansas, to Callista W. Eldson, Defendant, greeting: You are hereby notified that you have been sued in the District Court of Shawnee County, Kansas, by said plaintiff, Ansel M. Eldson, for a divorce, and that unless you answer or plead to the petition in said action filed in the office of the clerk of said court on or before the 25th day of January, 1908, the allegations contained in said petition will be taken as true and judgment rendered accordingly.  
ANSEL M. ELSDON,  
By FRED C. SLATER, his attorney.  
Attest: R. L. THOMAS, Clerk.

**Notice of Final Settlement.**  
The State of Kansas, Shawnee County, ss. In the Probate Court in and for said County. In the matter of the estate of Edward Zuercher. Creditors and all other persons interested in the aforesaid estate, are hereby notified that I shall apply to the Probate Court in and for said County, sitting at the Court House in the City of Topeka, Shawnee County, Kansas, on the 8th day of February, A. D. 1908, for a full and final settlement of said estate.  
Dated December 19, A. D. 1907.  
S. J. CRUMBINE, Administrator,  
of the estate of Edward Zuercher, deceased.

(First published in Kansas Farmer, December 26, 1907.)  
**Sheriff's Sale.**  
Case No. 24687.

In the District Court of Shawnee County, State of Kansas. James Durkin, Plaintiff, vs. J. E. Tierney and Alice Bates, Defendants.  
By virtue of an Order of Sale issued to me, out of said District Court, in the above-entitled action, I will, on Monday, the 27th day of January, A. D. 1908, at 10 o'clock a. m., of said day, at the east front door of the Court House in the City of Topeka, in the County of Shawnee, in the State of Kansas, offer at public sale, and sell to the highest and best bidder, for cash in hand, all the following described real estate, to wit: Lots numbered 1, 3, 5, 7, 9, 11, 13, and 15 on Third Street in Block 21, also Lots numbered 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29 and 31 on Third Street in Block 22. Also Lots numbered 2, 4, 6, 8, 10, 12, 14 and 16 on Gordon Street in Block 21. Also Lots numbered 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30 and 32 on Gordon Street in Block 22. All of the aforesaid lots are recorded in plat of Blocks 21 and 22, North Park Addition to the City of Topeka, lying and situate in the County of Shawnee in the State of Kansas.  
The above-described real estate is taken as the property of said defendants, and is directed by said order of sale to be sold, and will be sold without appraisal, to satisfy said order of sale.  
J. M. WILKERSON,  
Sheriff of Shawnee County, Kansas.  
By JONATHAN D. NORTON,  
Under Sheriff.  
M. T. CAMPBELL, Attorney.

First published in Kansas Farmer December 12, 1907.

**NOTICE.**

Notice is hereby given that we, the undersigned commissioners hereunto duly appointed by the Honorable A. W. Dana, Judge of the District Court of Shawnee County, Kansas, will on the 16th day of January, 1908, proceed to lay off according to law, for The Topeka-Southwestern Railway Company, along its route as now located from a point on said line, to wit: 55.1 feet north of the southeast corner of the southeast quarter of section two (2), in township twelve (12), south of range fifteen (15), east of the sixth p. m. to the west line of Shawnee County, Kansas, all lands, necessary for the route for said railroad and all such land as may be deemed necessary for side-tracks, depots, work-shops, water stations, material for construction, except timber, the right-of-way over adjacent lands sufficient to enable said Company to construct and repair its road and stations and a right to conduct water by aqueducts and the right of making proper drains and apraise the value of that portion of any quarter section or other lot of land so taken and assess the damages thereto, which said lands desired by said railway company are particularly shown by the map and profile of said Company's line of railroad in said county, filed in the office of the county clerk of said county. We will commence to lay off said route as aforesaid on the line of said Company's railroad, as located at said point on its line, to wit: 55.1 feet north of the southeast corner of the southeast quarter of section two (2), in township twelve (12), south of range fifteen (15), east of the sixth p. m. in Shawnee County, Kansas, on said day and will adjourn from time to time until our labors in this behalf are completed.  
Dated the 12th day of December, A. D. 1907.  
C. E. JEWELL,  
Ed. SUGGMAN,  
Wm. HENNINGSON,  
Commissioners.

**Stray List**

**For Week Ending December 19.**  
Kearny County—F. L. Pierce, Clerk.  
COLT—Taken up, November 14, 1907, by J. C. Elston in Hibbard tp. (P. O. Kendall), one black mare colt, white spot in forehead; valued at \$20.  
Nemaha County—E. S. Randel, Clerk.  
COW—Taken up, November 27, 1907, by Joel Overmyer in Richmond tp. (P. O. Seneca), one red cow; some white on face and belly, one horn droops down, branded H. on left hip, crop off left ear.  
Anderson County—M. J. Keeton, Clerk.  
HEIFER—Taken up by Thomas Mulkey, in Lincoln tp., one yearling or short 2-year-old red heifer, bush of tail white, some white in flanks, small horns; no marks or brands; valued at \$18.  
**Week Ending December 26.**  
Wabaunsee County—C. C. Stotler, Clerk.  
MARE PONY—Taken up by Ernest Roush in Plumb tp., August 7, 1907, one mare pony, about 10 years old, 4 feet 10 inches high, weight about 700 lbs., star in forehead, branded LX on left hip.  
Cherokee County—R. G. Holmes, Clerk.  
HORSE—Taken up by Nancy Doss in Pleasant View tp. (P. O. Ashbury, Mo.), November 28, 1907, one bay horse, star in forehead; valued at \$35.  
COW—Taken up by L. H. Gandy in Garden tp., December 13, 1907, one white and red spotted cow, smooth crop on left ear and spear brand on left hip; valued at \$20.  
**For Week Ending January 2.**  
Lyon County—Jno. E. Martin, Clerk.  
STEER—Taken up by Sarah J. Weaver in Emporia tp., one 3-year-old dark red steer, square crop on left ear; valued at \$35.

**Live stock advertising in The Kansas Farmer brings results to the advertiser.**



REAL ESTATE

REAL ESTATE

SPECIAL

Six quarter sections 20 miles from Topeka, 1/4 mile from good railroad town. All in wild meadow. This is the last of a large ranch. It can be had for \$25.00 per acre.

Ind. Telephone 1847. L. E. ANDERSON & CO, Topeka, Kans. 800 N. Kansas Ave.

Marshall County Farms

240 acres, 1 1/2 miles to shipping point, 7 1/2 miles to good town, fine 7-room house, with cellar and cistern, large barn, cribs, granaries, etc., all in first-class condition; 100 acres in cultivation, all good soil; 80 acres in wheat; 50 acres creek bottom; 40 acres in pasture, well-watered well and windmill, some timber, large orchard. \$90 per acre. One of the best farms in the county.

F. NEWSON, Blue Rapids, Kansas.

80 acres, 55 cultivated, 10 meadow, balance pasture. Good 6-room frame house, stable for 8 horses, orchard and all kinds of fruit. 2 good wells, one mile to school, 4 to Emporia. \$4000. Hurley & Jennings, Emporia, Kans.

TWO GOOD FARMS—Two 40-acre farms near Topeka, and a 100-acre and a 400-acre farm, each 7 miles of Topeka. A number of houses for sale. Come and see me. Denton Burton, 106 East Sixth Street, Topeka, Kans.

Eighty acres, Anderson County, three-fourths of a mile from Amlot. Four-room house, barn for ten head of stock, good soil, location and water. Price, \$5,500. B. F. Fridley, Amlot, Kans.

\$250 WILL BUY 80 acres; Christian County, Southeast Missouri. Perfect title; terms \$10 monthly. W. M. B. Williams, Mt. Vernon, Ill.

Farm Bargains in East Kansas

Write for new land list describing farms that are offered at bargain prices. Corn, wheat, clover and alfalfa land. MANSFIELD BROS., Garnett, Kans.

MISSOURI FARMS FOR SALE

Everman has a farm for every man. Write for description and price list.

John W. Everman, Gallatin, Mo.

This tract of land contains 4,826 acres, and lays nine miles north of Dodge City, in the north part of Ford, and the south part of Hodgeman Counties. It is all fenced and cross-fenced; two good sets of improvements, consisting of dwellings, horse barns, cattle-sheds, granaries, etc., etc.; 175 acres now in wheat and rye; 45 acres ready for spring crop; the remainder of the land all in natural grass. Three school houses adjacent to this land. This ranch is watered by several of the finest springs to be found in Western Kansas. Sawlog Creek runs through the land, and has in it pools of clear standing water the year round. All of this ranch is the very best of wheat land, and about 500 acres is splendid alfalfa land. We will sell this entire tract for \$10 per acre and carry \$4 per acre of the purchase price five years at 6 per cent, or will sell it in quarters, halves or sections, at a reasonable price and on same terms. This is one of the finest tracts of land in this part of the state, being surrounded by well improved wheat and alfalfa farms. Your last chance to buy this tract of land.

FRIZELL & ELY, Larned, Kans.

tions largely independent of outside influences, which have been adverse as a rule. Run is 4,000 to-day, market 15@25c higher, highest in two months, top lambs \$6.55, light weight yearlings \$5.75, medium class ewes \$4.20, wethers worth up to \$4.75. J. A. RICKART.

Grain in Kansas City.

Kansas City, Mo., December 30, 1907. Receipts of wheat in Kansas City to-day were 100 cars; Saturday's inspections were 49 cars. Shipment, 54 cars; a year ago, 114 cars. Prices were 1/2@1c lower. The sales were: Hard Wheat—No. 2, 1 car \$1.00 1/2, 1 car \$1, 2 cars 99c, 1 car 98 1/2c, 5 cars 98c, 2 cars 97 1/2c, 10 cars 97c, 2 cars 96 1/2c, 1 car 96c; No. 3, 2 cars 97c, 1 car 96 1/2c, 1 car 96c, nominally 95@98 1/2c; No. 4, 1 car 97c, 8 cars 96 1/2c, 3 cars 95 1/2c, 3 cars 95c, 3 cars 94 1/2c, 1 car 93 1/2c, 3 cars 90c, 1 car 11c sample 88c; rejected, 4 cars 84c, 1 car 83c; no grade, 1 car live weevil 97 1/2c. Soft Wheat—No. 2 red, 1 car \$1, 1 car 99c, nominally 97c@98c; No. 3 red, 1 car 97 1/2c, nominally 96@98c; No. 4 red, 1 car 93c, nominally 93@96c; rejected red, 1 car 88c. Mixed Wheat—No. 3, 1 car 96c, Durum Wheat—No. 2, 1 car 84c; No. 3, 1 car 83c.

Receipts of corn were 117 cars; Saturday's inspections were 52 cars. Shipments, 132 cars; a year ago, 42 cars. Prices were 1/4@3/4c lower. The sales were: No. 2 white, 1 car 52 1/2c, 1 car 51 1/2c; No. 3 white, 5 cars 52 1/2c, 1 car 52c, 27 cars 51 1/2c; No. 2 mixed, 1 car 52 1/2c, 1 car 51 1/2c; No. 3 mixed, 8 cars 52 1/2c, 9 cars 52c, 62 cars 51 1/2c; No. 3 yellow, 1 car 52 1/2c, 2 cars 52 1/2c, 6 cars 52c.

Receipts of oats were 13 cars; Saturday's inspections were 11 cars. Shipments, 8 cars; a year ago, 11 cars. Prices were in the main unchanged. The sales were: No. 2 white, 1 car 49 1/2c, 1 car 49c, nominally 48 1/2@50c; No. 3 white, 1 car 49c, 3 cars 48 1/2c, 4 cars color 48 1/2c; No. 4 white, 1 car 48c; No. 2 mixed, 1 car 48 1/2c, nominally 48@48 1/2c; No. 3 mixed, 1 car 47c, nominally 47@48c.

The range of prices for grain in Kansas City for future delivery and the close to-day, together with the close Saturday, were as follows:

Table with columns: Open, High, Low, Closed to-day, Closed Sat. Rows for WHEAT (May, July) and CORN (Dec, May, July).

200-BARREL FLOUR MILL

Located in Eastern Kansas. Cost over \$30,000. Equipped with modern machinery, in perfect order. This property is clear. Will exchange for good land, assume encumbrance, or pay cash difference. —Address—

S. B. Rohrer, Shawnee Fire Bldg., Topeka, Kans.

A GREAT OPPORTUNITY.

Texas has recently passed new School Land Laws. Settlement no longer required in most counties. Ten million acres to be sold by the State, \$1.00 to \$5.00 per acre; only one-fortieth cash, and 40 years' time on the balance; low interest rate. Land equal to Oklahoma. Only \$12.00 cash to pay to the State on 160 acres at \$3.00 per acre. Greatest opportunity for homeseekers or investors. Send 50 cents for Book of instructions and new State Law.

J. J. SNYDER, School Land Locator, 105 E. 9th St., Austin, Texas. Reference, Austin Nat'l Bank.

FOR SALE

Two good residences, well located in Topeka, worth \$4,500, to exchange for an 80 acre farm. Good store building, grocery stock, etc., worth \$4,500, to exchange for a farm. We sell and trade all kinds of Topeka properties; also farms and ranches. Send us full description of farm you want to sell or trade. GARLINGHOUSE REALTY CO. Both Phones. 608 Kansas Ave. Topeka Kans.

A Cheap Wheat Farm in Stanton Co., Kans.

160 acres level as a floor. Deep, black soil, ready for the plow. In German settlement south part of the county. Price only \$800.

ALBERT E. KING, MoPherson, Kans.

Norton County Alfalfa and Corn Farms.

We sell Norton County lands where wheat, corn and alfalfa grow in abundance. Write us for list of farms, and full particulars.

LOWE & BOWERS, Almena, Kans.

NOW IS THE TIME TO GET A HOME IN SUNNY COLORADO

They are coming here by the hundreds for health, happiness, homesteads and low priced lands. I locate homesteaders and sell land, in this the most healthful climate in the United States. Elevation 3500 feet; better for lung troubles than higher altitudes. This is the coming wheat producing country of the middle west; one crop pays for the land twice over. Come over the Mo. Pac. Ry. and get off at Sheridan Lake, 14 miles west of the Kansas line and let me show you. S. R. Smith, Sheridan Lake, Colo.

(LOOK)



A good 480 improved, Butler, Co. Kans. \$20 acre. A first class rental, free and clear, rents quick at \$6,000 per year; only \$40,000; will exchange for ranch. A \$13,000 livery, nets \$600 per month, will exchange for land. \$10,000 Shorthorn cattle and cash for farm. 1000 acre ranch central Kansas, for smaller or rental. A dandy 240 F. Kansas for smaller or rental. A good 640 wheat land, W. Kansas, \$10 per acre, for smaller or rental. Let me send you my list of farms and ranches, etc., for sale. Some will exchange.

FRANK GEE, Lawrence, Kans.

HOME IN MANHATTAN.

480 acres, farm land, wild meadow, and pasture; improved, watered; 12 miles out, 8 miles to shipping station; price \$20 per acre. 160 acres—90 acres best river bottom, balance pasture; improved; \$7,000. 240-acre finely improved prairie farm for \$10,000. 320 acres best natural pasture for \$5,000. Over 40 farms in this vicinity. Lists in more than twenty Kansas counties. Best large stock farm and ranch list in the west. Over 75 city properties. Large suburban and rooming-house list. Good exchange list. Manhattan city properties, including livery and harness business and hotel, for land. Write today. New state map for 10 cents in stamps. MANHATTAN REALTY CO., 304 Poyntz Ave., Manhattan, Kans.

A Fine Kaw Bottom Farm

FOR SALE—A fine Kaw bottom farm with good improvements, about 40 acres of alfalfa, only five miles from Topeka, for \$90 per acre.

W. M. FORBES & CO.

107 West 7th St., Topeka, Kans

OAT NUTRIMENT

An Invaluable Feed in the Developing of Young Stock.

A Bone Maker, A Muscle Developer, A Flesh Producer, Prevents Scouring in All Kinds of Young Stock.

Oat Nutriment is a cooked product of our cereal mill and is guaranteed to contain no drugs. It contains 20 per cent of Protein and 8 per cent of Fat. Stock breeders will find its use invaluable in fitting their show herds. Price \$1.90 per hundred, F. O. B. Atchison. Special prices on car lots.

Atchison Oat Meal & Cereal Co.,

ATCHISON, KANS.

FOURTH PUBLIC SALE



HIGH CLASS



Hereford Cattle

Blue Rapids, Kans., Thursday, Jan. 8, '08

41 Females—64 HEAD—23 Bulls. The females of breeding age are either carrying calves or with calf at foot by either Onward 18th or Soldier Creek Columbus 4th. Seven of them are imported. Of the 23 bulls, 20 are by Onward 18th. By far the best lot I have yet offered. My entire show herd included in this sale. Sale commences at 12:30 P. M.; to be held at the farm adjoining town.

E. R. MORGAN.

Auctioneers: Colonels Edmonson, Brady, Gordon, Albright, Trospen.

LEADER by Meddler 2d, TROUBLE MAKER 2d by Trouble Maker (full brother to Meddler), and MASTER MECHANIC by Contractor, head my heard and are included, with the sows bred to them, in my

BROOD SOW SALE

Harrisonville, Mo., Thursday, January 16, '08

These three boars are fancy and none is better bred. LEADER was sired by Meddler 2d out of Emergency by Corrector 2d, second dam Perfection Alto by Chief Perfection 2d. TROUBLE MAKER 2d was sired by Trouble Maker (a full brother, litter younger) to old Meddler) out of H's Black Bess 3d by Chief Perfection Jr. (by old Chief Perfection); next dam H's Black Bess 2d by a full brother in blood to Keep On. MASTER MECHANIC is out of the best litter I saw in 1907 and is the best son of Contractor. His dam is Edith U. S. 4th by Chief Perfection 2d. PERFECT MEDDLER (by Meddler 2d and out of a Trouble Maker dam from my best brood sow family) is a June boar to be sold in this sale. He is one of the heaviest-boned Meddler 2d boars I've seen and is a show prospect.

57 SOWS AND GILTS 57 All Bred Except 10 Head 57

There are 13 mature brood sows, including one by Proud Perfection, two by Trouble Maker, one by Majestic U. S. and 9 by Chief Perfection Jr. (State fair winner) and Ideal Tecumseh (first in class at Iowa and Illinois State Fairs) by Chief Tecumseh 3d. There are 19 fall yearlings sows including Sunbeam by Mischief Maker and Crocus by Corrector 2d.

These two are as fancy and valuable sows as will be sold anywhere this winter. Crocus is out of a Meddler dam. Eight of these fall yearlings are by Chief Perfection 3d (full brother to G's Perfection) and nine are by Trouble Maker (full brother to Meddler). Twenty-five elegant spring gilts, fancy as they can be and with lots of size, are included, 15 of which are bred. These include two by Royal Perfection (by Chief Perfection 3d), 8 by Perfect Corrector (by Corrector 2d), 12 by Trouble Maker, 1 by Chief Perfection 3d and two by Meddler 2d. Will also sell Suda Bell by Illinois Special out of a Keep On dam, bred to Next In Line.

Send bids to Frank Howard. Send your name now for catalogue. Auctioneers: Sparks, Burger, Snyder, Johnston and Page.

C. E. HEDGES, Garden City, Mo.



**DUROC-JERSEYS**

**DUROC-JERSEYS**

**DUROC-JERSEYS**

**POLAND-CHINAS**

**Woodlawn Durocs**  
25 head of fancy and spring boars for sale. They have good size, fine finish, and are sired by Shorty Orion, first at Illinois State Fair; Fancy Top Notcher, first at Kansas State Fair; Woodlawn Prince W. L. A.'s, Choice Goods; and are from large, mature dams. Write us.  
**J. W. JONES & SON, Concordia, Kansas.**

**Capital Herd Duroc-Jerseys.**  
Young boars and gilts for sale from such sires as Missouri Goldfinch, Long Wonder and Parker Boy, with excellent breeding on dam's side. All are good thrifty pigs. Call or write.  
**J. S. White & Son, R. S., Topeka, Kans.**

**CRIMSON WONDER HERD**  
Our Durocs are in fine shape. 300 head to pick from. Happy Hogan 64571 by Crimson Wonder 32785 and winner in 6 months class, Crimson Lad I Am 62653, winner of 3d prize at Kansas State Fair, are both now for sale. Mr. and Mrs. Henry Shrader, Wauneta, Kans.

**THE KANSAS HERD OF POLAND-CHINAS.**  
Has some fine spring males and gilts. Also a Missouri Keep On Boar for sale. F. P. Maguire, Hutchinson, Kans.

**BLUE VALLEY HERD REGISTERED DUROC-JERSEYS**  
Breeder of high-class, pure-bred Durocs. Leading strains of Duroc families represented in our herd. All correspondence given immediate attention; and young stock for sale at all times. See us at "American Royal."  
**WATTS & DUNLAP, Martin City, Mo.**

**CHOICE REGISTERED Durocs.** P. C. and O. I. C. hogs; Shorthorn, Jersey and Galloway cattle; 40 varieties poultry and pet stock at farmers' prices; stamps for catalog. A. Madsen & Sons, Atwood, Ks.

**Deer Creek Durocs**  
100 pigs of March and April farrow by sons of Ohio Chief, Tip Notcher and Kant Be Beat. Ready for shipment after July 1.  
**Bert Plack, Prairie View, Kans.**

**PLEASANT VIEW DUROCS**  
70 early pigs by Quality King 59681, Orion Boy 42127, and W's Top Notcher 59833. Also some choice tried sows at farmers prices. Thos. Watkinson, Blaine, Kans.

**Peacock's POLAND-CHINAS.** 12 BOARS, either spring or fall yearlings, Mischief Maker, Corrector or On and On strains. If you are looking for the right kind, with sale expenses deducted, call, or write your wants. Annual bred sow sale Jan. 31. Farm adjoins town. W. R. Peacock, Sedgwick, Kans.

**MADURA DUROCS.**  
The home of Miller's Model by Hunt's Model, and Major Rosefelt, a grandson of Ohio Chief; 100 fancy, growthy pigs; also bred sows and gilts for sale.  
**FRED J. MILLER, Wakefield, Kans.**

**Fairview Herds Durocs and Red Polled**  
Some good young boars by Crimson Challenger 43877 for sale. No females or Red Polled cattle for sale now.  
**J. B. Davis, Fairview, Brown County, Kans.**

**PRAIRIE QUEEN DUROCS**  
70 early springs that are tops, by the great Kant Be Beat, Alex Heir, and Wilkes Echo, out of daughters of Ohio Chief and Village Pride, and other good ones. G. H. Ramaker, Prairie View, Kans.

**SUNNY SLOPE POLANDS**  
A number of spring pigs, either sex, the farmers' kind, at bottom prices. Gilts will be sold bred or open. Also a litter of Scotch Collie pups, the great watch and cattle dog.  
**W. T. HAMMOND, Fortis, Kans.**

**OAK GROVE HERD OF DUROCS**  
Herd headed by Choice Goods H. 36471 by Hunt's Model and Corrector's Model 34381. I have for sale a few choice males of spring and fall farrow that will be priced worth the money.  
**SHERMAN REEDY, Hanover, Kans.**

**CRIMSON HERD OF DUROCS.**  
Herd boars, Red Perfection by Leona's Chief, All-lean Gold Dust by Parker Mc., and Red Pathfinder by American Royal. Iowa Girl still farrowing good litters. The best blood lines of the breed with size and quality combined. Spring pigs for sale. J. W. Beld, Fortis, Kans.

**GOLD DUST HERD DUROCS**  
Twenty tippy spring boars sired by Kant-Be-Beat, Improver II, Hogate's Model, Lincoln Wonder, and our herd boars, Crimson Russell 52463 and Kant's Model 52471, out of our best sows. They are strictly first-class and we are pricing them very low for quick sale. Write your wants.

**Becker's POLAND-CHINAS;** 40 choice pigs; the easy feeding, "early maturing kind; by Dandy Rex; first in class at Kansas and Colorado State Fairs 1905-06. Prices reasonable.  
**J. H. BECKER, Newton, Kans.**

**HILLSIDE DUROCS AND HEREFORDS**  
Choice boars ready for service. Bred gilts and fall pigs, both sexes. Mc's Pride III, Oom Paul V, and Crimson Knight 62579 in service. 6 good Anxley bred Hereford bull calves. Prices to correspond with the times. W. A. Wood, Elm Dale, Kans.

**ATTENTION**  
Hog raisers of every kind. Had you forgotten that this is just the time to buy that male pig to head your herd? Well it is a fact and you had better get in line and come to the Rosebud and get something fine. Rosebud Stock Farm, Rathbun & Rathbun, Prop., Downs, Kans.

**Miner & Aitken, Tecumseh, Neb.**

**A. M. Jordan** POLAND-CHINAS of modern breeding, "Advance" (by Chief Perfection 2d) and "Grand Mischief" in service.  
**Alma, Kans.**

**PEERLESS STOCK FARM**  
**DUROC-JERSEY HOGS FOR SALE.**  
R. G. Sollenberger, Woodston, Kans.

**WESTLAWN DUROCS**  
Herd headed by Bobby S., a son of 2d Climax, 1st prize boar at Missouri State Fair 1903. Stock always for sale. Choice fall boars and gilts. Also young Shorthorn bulls from heavy milking dams. Prices reasonable. E. B. Grant, R. 9., Emporia, Kans.

**FOUR-MILE HERD DUROCS**  
Choice fall boars by Orion Jr. 31497, and Ohio Chief 2d 41197. 50 spring boars, growthy, heavy bone, good feet, nice color; sired by the above named males, and E's Kan't Be Beat 57563, Crimson Chief 31265, Rose Top Notcher 54059, You Bet 31111, Tip Top Notcher 20729, and other noted sires. Sows of the best and leading families. Write or visit herd. Visitors met at trains.  
**E. H. Erickson, R. 1, Olsburg, Kans.**

**SIGLER'S** Our Poland-Chinas are rich in breeding and individuality. Our prices are right and we respectfully invite correspondence with prospective buyers.  
**A. E. SIGLER, Pickrell, Neb.**

**PIGS SHIPPED ON APPROVAL**  
200 head of Durocs, all ages, representing the blood of Combination, Valley Chief, and a son of Kant-Be-Beat.  
**T. L. Livingston, Burchard, Neb.**

**Elk Valley Durocs**  
Herd headed by Doty Boy 29279, a son of the champion Goldfinch and Dotie. My sows are by prize-winning boars. Choice pigs of both sexes for sale.  
**M. Wesley, Bancroft, Kans.**

**Otatop Herd Duroc-Jersey Swine**  
Composed of nothing but prize-winning blood. Pigs for sale of either sex.  
**JOHN W. TAYLOR, Edwardsville, Kansas**

**The Useful Type of Poland-Chinas**  
Herd headed by Filate Chief 43565 by Johnson's Chief 35774, and Major King 43564 by Major M. 21537, a 1000-pound hog.  
**E. D. Morris, Bern, Kansas**

**Silver Lake Durocs.**  
Fifty fall pigs will be priced right, either sex. Bred gilts will be priced right on mail orders. Bred sow sale Feb. 19. Boars in service, Lone Jack 30291, Jaul Jumbo 42299.  
**W. C. Whitney, Agra, Kans.**

**CHASE COUNTY HERD OF DUROCS.**  
Golden Chieftain, a grandson of Ohio Chief 5727-A, Harter's Choice, a granddaughter of Crimson Wonder and first and grand champion sow at St. Joseph, 1907, and others of the best breeding. Young stock for sale at all times. J. H. Gayer, Route 1, Cottonwood Falls, Kans.

**Haith's DUROCS**  
Herd headed by Lincoln Top, sweepstakes boar at Nebraska State Fair, 1907, assisted by Haith's Kan't Be Beat, Haith's Hanley, Jim's Wonder, Wonder Again. A few good sows bred to these boars for spring farrow. Will breed a few sows to Lincoln Top, \$100 service fee. Sale date, January 29.  
**W. H. HAITH, Route No. 1, Vesta, Neb.**

**CEDAR GROVE HERD**  
Of pure-bred POLAND-CHINA HOGS  
We will have some bargains this season to offer the public. J. A. HEBREW, Stockton, Kans. Mention Kansas Farmer when you write.

**Orchard Hill Herd Duroc-Jerseys.**  
All stock for sale including tried sows bred to Norton's Top Notcher 45116, Gold Dust Top Notcher 62325 and Kanhlo Chief 37491. Also spring gilts sired by and bred to these herd headers, properly mated. Also spring males. Dispersion sale February 13. E. F. NORTON, Clay Center, Kans.

**CUMMINGS & SONS DUROCS**  
100 tippy pigs of early March farrow, by Lincoln Top, Junior Jim, Tip Top Notcher Jr., Kants Model, Beautiful Joe and our herd boar OH HOW GOOD, second prize-winner at Nebraska State Fair. Sale in October; write or visit.  
**W. H. Cummings & Son, Tecumseh Neb.**

**W. H. HAITH,**  
Route No. 1, Vesta, Neb.

**ESBON HERD OF POLAND-CHINAS**  
I am pricing spring pigs at \$15 to \$25, either sex. Bred gilts \$20 to \$25. Tried sows bred \$40, sows bred to Speculator 43625, or Tedy Expansion sent for record. W. C. TOPLIFF, Eabon, Kans.

**B. N. WELCH,**  
Breeder of DUROC-JERSEYS, Crimson Chief 49698 heads my herd. Young stock for sale.  
**Waterville, Kansas.**

**Vick's DUROCS** are bred for usefulness. Choice young stock for sale by such great boars as Vick's Improver 47385, Red Top 32241, Fancy Chief 24923 and other noted sires. Correspondence invited. Visitors coming to Junction City and phoning me will be called for. W. L. VICK, Junction City, Kans.

**EUREKA MANOR HERD OF DUROC-JERSEYS.**  
Choice breeding stock; the best I ever raised. Fall and spring boars, fall and spring gilts, and tried sows, bred or open. Prices the lowest quality and breeding the best. Herd headed by Eureka Tip Top 43641 sired by the great World's Fair grand champion Tip Top Notcher 20729 and Olathe Chief 61629 by Ohio Chief 8727, the world's champion. Write your wants or call and inspect my herd.  
**J. F. ENSOR, Olathe, Kans.**

**POLAND-CHINAS. SHORTHORNS.**  
A few thrifty young bulls and boars of the best breeding from champion and prize-winning families. Prices reasonable for quick sales.  
**R. M. BUCK, Route 2, Eskridge, Kansas**

**Howe's DUROCS;** 100 early spring pigs, the best I ever raised. Improver, Top Notcher, Sensation and Gold Finch blood lines. Call or write.  
**J. U. HOWE, Route S, Wichita, Kans.**

**CHASE COUNTY HERD OF DUROCS.**  
Golden Chieftain, a grandson of Ohio Chief 5727-A, Harter's Choice, a granddaughter of Crimson Wonder and first and grand champion sow at St. Joseph, 1907, and others of the best breeding. Young stock for sale at all times. J. H. Gayer, Route 1, Cottonwood Falls, Kans.

**Stalder's Poland-Chinas**  
I have pigs for sale from the leading strains of the country. Prices reasonable. Write for full particulars.  
**O. W. Stalder, Salem, Neb.**

**Somerheim Farm and Holsteins**  
For ready sale at a bargain, the herd boar, Capital Prince 45129, by Prince Darkness. Can use him no longer. Also several early spring boars that will make lusty herd-headers and a number of richly-bred gilts. James B. Zinn, Box 348, Topeka, Kans.

**Grant Chapin's Durocs**  
FOR SALE—Some very choice young boars of April and May farrow sired by Model Chief Again and out of my best producing sows. Some of them herd headers.  
Bred sow sale January 28, at the Agricultural College, Manhattan, Kans.  
**Grant Chapin, Green, Kans.**

**Staad's Durocs**  
First-class spring 1907 BOARS sired by Long Wonder and Nelson's Model at prices that will move them.  
**J. F. STAADT, Ottawa, Kans.**

**POLAND-CHINAS**

**Maple Valley Herd Poland-Chinas**  
60 fine spring pigs sired by On The Line, Col. Mills by Chief Perfection 2d, Pince Darkness, Dispatcher, Grand Perfection, On Time, and other great sires. Write me for prices and breeding. C. F. BROWN, Whiting, Kans.

**Wall Street**  
Might have taken you in had I not come to your rescue with a few sows carrying the blood lines of Kruger, Buddy K., Tip Top Notcher, Crimson Wonder and Ohio Chief, bred for early farrow to Secret Prince 68211, A. B. Top Notcher 47323, Big Chief's Special 68213, Top Notcher Model and Billy K., Jr. Write me your wants.  
**G. W. COLWELL, R. 2, Summerfield, Kans.**

**Lamb's HERD OF DUROCS** is built along the most fashionable blood lines and is noted for the individuality of its make-up. 50 fine pigs sired by the great Hanley, Lincoln Top, Buddy L by Buddy K IV, Crimson Jim, Ambition and other great sires. We invite correspondence with prospective buyers.  
**Elmer Lamb, Tecumseh, Nebr.**

**FAIR VIEW STOCK FARM**  
Show yard type Poland-Chinas, headed by Corrector Sunshine 101835. A few choice pigs for sale.  
**A. K. Sell, Fredonia, Kans.**

**Young Boars For Sale**  
Chief Enterprise at head of herd.  
Am offering 35 head of spring boars sired by Chief Enterprise. Heavy boned, growthy, thick fleshed, and in splendid condition. THIS STUFF WILL BE PRICED RIGHT. Write me for further information.  
**Isaac Tyson, Mound City, Mo.**

**Klondyke Durocs**  
100 choice spring pigs, sired by Chief Model 47935, a 700 pound, 2-year-old son of Hunt's Model 20177; Prover 63589, one of Improver 2d 13385 best sons; Sam Advance 63587, a fine grandson of Proud Advance 23549. Prices \$12.50 to \$18.50, either sex. Write me now.  
**G. E. Newton, Whiting, Kans.**

**Timber City Durocs**  
Fall and spring boars by You Bet 31111, Doty Wonder 41889, Geneva Chief 8049, Rose Top Notcher 54059, and others. Sows bred to the above boars for sale. Over 400 head in herd, write your wants.  
**SAMUELSON BROS., Bala, Kans. and Cleburn, Kans.**

**BOARS, BOARS.**  
Choice spring males at right prices, by Grand Chief, Masterpiece, Nonpareil, Choice Chief, E. L. 2d, and other noted sires. Call on or write.  
**THOS. COLEINS, R. 4, Lincoln, Kans.**

**WELCOME HERD POLAND CHINAS**  
Headed by the \$1,000 TOM LIPTON. Sows in herd—Springtide by Meddler 2d, a \$710 gilt bred to Perfect Challenger; Cherry Blossom by Perfection E. L., a \$310 gilt bred to B. P.'s Perfection; Eloquent by Corrector, a \$190 sow bred to Meddler 2d; Maxie by Chief Perfection 2d, a \$385 gilt bred to Meddler 2d. Stock for sale at all times. Write us or come and visit herd. JOSEPH M. BAIER, Elmo, Kans.  
**E. L. Keep On Poland-Chinas.**

**30 Duroc-Jersey Boars**  
For Sale—30 head of February, March and April farrow, sired by Improver 32357, Pearl Wonder 31393, and Wichita Prince 2d 57671.  
Also Shorthorns for sale, two 2-year-olds and 26 young last spring's calves, sired by Baron Ury 2d 124970, Scottish Ruler 265500, Royal Herd 246747, Headlight 2d 248305 and Bold Knight 179054.  
For further information and bargain prices call on or address U. V TAYLOR, R. 2, Enterprise, Kans.

**Elk Creek Durocs**  
One 2-year-old boar by Improver 2d and out of Nebraska Bell. Also one yearling boar by Old Surprise, (a son of prize-winners) at living prices. 160 pigs of early spring farrow by Kant Be Beats Best, and Bell's Chief 2d, ready for shipment after July 1.  
**J. E. JOINES, Clyde, Kans.**

**ERIE GAS LIGHT HERD POLAND-CHINAS.**  
Headed by Sunshine Chief 2d by Chief Sunshine 2d, dam Queen Perfection, Margarette C. Mayflower, Ideal Sunshine 2d and other great sows in herd. Stock for sale. J. K. MAHAFFEY, Erie, Kans.

**Home of Indiana 2d.**  
You all know the record of this great young boar. Come and see him and the many other sons and daughters of world and State Fair champions in our herd. PLACE TO GET HERD-HEADERS. TRY US. They have size, finish, easy feeding qualities with hot pedigrees, the kind sought after by the farmer, breeder and showman. We price them right. Come or write us.  
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**Ralph Harris Farm Duroc-Jersey Herd**  
Kansas Advancer 67427 and Crimson Advancer 67425 at head. At the American Royal, 1907, with 3 enplan sow under 12 months; 1st and 2d sows under 12 months, and 2d in Junior yearling sows. We look for excellent pigs by our new herd boars.  
**RALPH HARRIS, Prop. B. W. WHITE, Mgr. WILLIAMSTOWN, KANS. Farm station, Buck Creek, on the U. P. 45 miles west of Kansas City.**

**ROSE LAWN Duroc-Jerseys**  
I have several high-grade Lincoln names for sale.  
**L. L. Freeman, Rose Lawn Place, TOPEKA, KANSAS.**

**JOHN BOLLIN,**  
Route 5, Leavenworth, Kans.  
Breeds and Sells Poland-Chinas Popular . . .  
The State and World's Fair winning boars Name L's Dude and The Picquet in service. Bred sows and serviceable boars for sale.

**A. B. GARRISON** Summerfield Kansas  
Breeder of Poland-Chinas That Win  
where size, bone and quality are the chief requirements. 119 early pigs by Prince Yon Tall, my 1000-pound show bear, and Gold Metal, a grandson of Expansion. Write for description and prices.

**K. & N. Herd Royally Bred Duroc-Jersey Swine**  
Have a few gilts that I will sell at reasonable prices, bred for April farrow. Also a few fall boars of September, 1906, farrow. Write for prices and descriptions.  
**R. L. WILSON, Chester, Neb.**

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Of both sexes for sale. Herd headed by Imported Baron Compton 85196.  
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**Ridgeview Berkshires**

**FOR SALE**  
One aged and one yearling boar and spring pigs of both sexes.  
MANWARING BROS.,  
Route 1, Lawrence, Kansas

**GEO. W. BERRY,**  
High-Class Berkshires

R. F. D. No. 4, Lawrence, Kansas  
Breeder of MASTERSPIECE, head of the superb Masterpiece family; also BLACK ROBINHOOD, head of the great Black Robinhood family.  
For sale—Show pigs and herd headers, fall of 1907 farrow. Choice boars and gilts at moderate prices.

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Headed by Pacific Duke 56691, dam Marjorie 37491 by Baron Duke 284 50000 a son of Baron Lee 4th, the sire of Lord Premier and Duchess 120th 28875, grand dam of Premier Longfellow. Stock of all ages for sale. All stock guaranteed as represented.

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Special price on 150 to 200 pound boars for 15 days only. One-fifth off the regular price. These pigs are by Master's Longfellow 90854 and Legal 86271.

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**Berkshires, Percherons, Aberdeen-Angus.**  
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The Guthrie Ranch Berkshire herd, headed by Berrington Duke, assisted by his prize-winning son, Revelation, and his half-brother, Baron Duke. Size, bone and quality for the farmer; style and finish for the breeder. A few extra good boars and over one hundred fall pigs to choose from.

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Stock from the best families known to the breed. Breeding second to no herd in America. Stock of all ages and both sexes. Pigs not akin.

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Have weight, quality and constitution developed by rustling for the best pork producing food on earth, alfalfa and blue-grass, supplemented with a light ration of grain and mill-feed. They are bred right and best of all are priced right. Write for anything in Berkshires to

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Proven sows bred for fall farrow. Also 50 early pigs ready for shipment after July 15. Prices reasonable.

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**Barnes' I. O. C.'s**

A nice lot of spring gilts and a few choice boars of spring farrow, for sale at living prices. Write me for full particulars.

W. D. BARNES,  
Barneston, Nebr.

On Union Pacific Railroad.

**O. I. C. The World's Best Swine**

Spring pigs for sale, singly, in pairs or trios; properly mated and sired by Norway Chief, our first and sweepstakes, and other good boars. Write for our free booklet. Some snaps for first orders. Address  
**THE FISHER LIVE-STOCK COMPANY**  
Hastings, Nebraska

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**New York Valley Herds of Shorthorn Cattle and Berkshire Hogs.**

No hogs for sale at present but will sell some extra fine Scotch-topped bulls and heifers from 8 to 18 months old. Come and see my stock and be convinced. J. T. Bayer, Yates Center Kans.

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FOR SALE OR TRADE—My 4-year-old herd bull, Mauds Duke of Wildwood 218428; has scale and quality, is a good individual and a sure breeder. Also choice Duroc spring gilts for sale.

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Scotch and Scotch-topped Shorthorns from such families as Young Mary, White Rose, Secrete, Arabella, Lady of Athol, Dulcibella, Young Phillis, Wiley, etc. Young stock of both sexes for sale. Prices reasonable. HOADLEY & SIGMUND, Selden, Kans.

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I have a number of as good young bulls ready for service as the Shorthorn breed affords. Ranging in age from 6 months to 2 years. Can sell a carload. Priced for Quick Sale. Write or come. I'll meet you.

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**Shorthorns and Poland-Chinas**

FOR SALE—7 bulls from 8 to 18 months old (6 of these are straight Scotch), a few pure Scotch and Scotch-topped heifers from 6 months to 2 years old. These are by our pure Scotch bull, Cruickshank Clipper, and out of our best cows. Also some toppy spring boars, and a few choice gilts bred for spring farrow. Prices reasonable. Farm adjoins depot. Call on or write

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**Prospect Farm Shorthorns**

The oldest Shorthorn breeders in Kansas. The largest herd of Cruickshanks in Kansas. Herd headed by Violet Prince 145647 and Orange Commander 220690. Young stock of both sexes and some cows for sale. Quality and prices right.

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The great 2,400 pound Dale Duplicate 2d, Chief herd bull, son of the great Columbus. High-class stock for sale.

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E. E. WOODMAN, Vermilion, Ks.

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Herefords and Durocs.

Judge Spencer 97224, a prize-winner at the American Royal in 1906, heads Hereford herd. Hanley Lad 4823 by Hanley 42845, heads Durocs. For sale, choice stock of both breeds, any age or either sex, at rock bottom prices.

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Hazford Place,  
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**Polled Durhams FOR SALE**

Double Standard Polled Durhams. Choice young bulls sired by Kansas Boy X 2885, brother to first prize winners last two years. Write or come and see stock.

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**THE LILAC FARM.**  
We have a fine lot of bull calves sired by Lilac Preterje Sir De Kol, 1st prize bull Topeka State Fair, 1905, which we are offering for sale at a very reasonable price. The Lilac Farm, Hughes & Jones, Proprietors, Route 2, Topeka, Kans.

**HOLSTEIN BULL CALVES**  
from large producing dams. You can increase your profits 50 per cent with this class of stock. Address  
H. B. COWLES, 625 Kansas Ave., Topeka, Kas.

**Somerheim Farm**  
Holsteins and Poland-Chinas  
For Sale—30 yearling Holstein heifers, just ready for work. Make heavy, rich milkers. Prices will be reasonable. I have the best herd of dairy cattle in Kansas. James B. Zinn, Box 248, Topeka, Kans.

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**COBURN HERD OF RED POLLED CATTLE**

Herd now numbers 118 head. Young bulls for sale.  
GEO. GROENMILLER & SON,  
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**Beulah-Land Red Polls.**

World's prize winners. Serviceable bulls, herd headers, at reasonable prices.  
WILKIE BLAIR, Route 5, Girard, Kans.

**Foster's Red Polls.**

Some choice young bulls and heifers, also a few good cows for sale. Prices reasonable.  
Chas. Foster & Son, Eldorado, Kans.

**RED POLLED CATTLE AND POLAND-CHINA SWINE**

Best of breeding. Write or come and see.  
CHAS. MORRISON & SON, Route 2, Phillipsburg, Kans.

**Fort Larned Stock Breeders Association Red Polled and Galloway Cattle**

Young animals, either sex, for sale, of the choicest strains and good individuals. Imp. Galloway bull, Nugel, in service. Prices reasonable and inspection invited. Address.

E. E. FRIZELL,  
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**CAPITAL VIEW GALLOWAYS**

Over 200 head. Extra lot of young bulls by Imp Bull of Lockside 23524, Lost Boy of Platte 12633, and Tip Top 22260.

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**Linscott's Jerseys**

Established 1878. Registered in A. J. C. C. Butter Records, 3 Generations, 14 lbs. 3 oz.; 15 lbs. 2 oz.; 22 lbs. 7 oz. L's Coomassie, bred and owned in this herd, holds the Champion Milk record of the United States for 1906, 369 lbs. in 7 days, 1491 lbs. milk, 30 days, 91 lbs. 8 oz. butter. Young stuff both sexes for sale at all times. Correspondence and inspection invited. R. J. Linscott, Holton, Kans.

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Pure-bred stock sales a specialty. Best of references. Write, wire or phone for terms and dates at my expense.

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Fine stock a specialty. Large acquaintance among stock breeders. Sales made anywhere. Working and booked for best breeders in the State. Write or wire for dates.

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I have the natural qualifications for an auctioneer and have had the benefit of a term of training in the American Auction School located at Chillicothe, Mo., which school provides a thorough course not only in practical auctioneering but also stock judging and other things that very successful auctioneers should know. My terms are reasonable for good service.  
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**THOS. E. DEEM Live-Stock Auctioneer**  
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Am now booked for sales of the leading breeds of pure-bred live-stock. Write me before arranging a date.  
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**L. M. PENWELL, Funeral Director and Licensed Embalmer.**  
511 Quincy St. Topeka, Kansas

**HORSES AND MULES**

**Percheron Horses**

Stock for sale. Come and see us or write your wants.

F. H. Schrepel, Ellinwood, Kas.

**Jacks, Jennets, Stallions**

30 black jacks of good ages, heavy boned and up to 16 hands high; 38 jennets; stock nearly all of my own raising and acclimated. Also several draft stallions and one saddle stallion for sale. Prices reasonable.

PHILLIP WALKER, Moline, Elk Co., Kans.

**JACKS.**

I have the largest line of big, first-class, imported and home bred Jacks in the world. Mules are getting higher and in greater demand than ever. If horses get higher, mules will get higher still. Just the same. Raise MULES. If you do not like mules, remember I stand in the front rank with the finest line of extra big imported Percherons, Belgians and American-bred ton stallions, at lower prices than you can find them any where. All stock guaranteed 85 per cent breeders. W. L. DeCLOW, Cedar Rapids Jack Farm, Cedar Rapids, Iowa.

**FOR SALE**



12 Jacks, all black and all my own raising and breaking. Also five stallions. Barns three blocks north of depot. For particulars see or write

F. W. POOS, Potter, Kans.

**JACKS, JENNETS, SADDLE HORSES, TROTTER AND PACING STALLIONS,**

Poland-China and Tamworth Hogs  
We are the largest breeders and importers of Jacks in America and have large stock of saddle stallions and mares, trotting and pacing stallions. Our catalogue is the finest ever issued by any Jack breeder.

J. F. COOK & CO., Lexington, Ky.  
Branch Barn, Greenville, Texas.

**Limestone Valley Farm**

Smithton, Mo.  
Headquarters for high-class registered Mammoth Jacks and jennets. Prices reasonable.

L. M. Monsees & Sons, Smithton, Mo.

**PIKE COUNTY JACK FARM.**

Largest importer and breeder of Mammoth Jacks in the United States. Every stall in my barn has a big Mammoth Jack, 15 to 17 hands high, 1,000 to 1,300 lbs., that I will sell on one and two years time to responsible parties. If my Jacks are not just as I represent them I will pay all railroad expenses.

LUKE M. EMERSON, Bowling Green, Mo.

**THE BROWN FARM**

Horses—Cattle—Swine—Poultry.  
Silkwood 12326, in stud, race record 2:07; Guideless, record 2:07 1/4; sire of two in 2:10 and of eleven with records better than 2:25. Fee, \$25 to insure. Pasture and feed reasonable. Registered Shorthorns and Jerseys. Large strains. Several Jersey bulls for sale. O. I. C. Swine. Choice boars and gilts for sale. R. I. Red chickens, both rose and single comb. Eggs \$1 per 14, \$5 per 100. Correspondence, inspection and patronage solicited.

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Sales of pedigreed stock a specialty. Sixteen years selling for America's best breeders.



**HORSES AND MULES**

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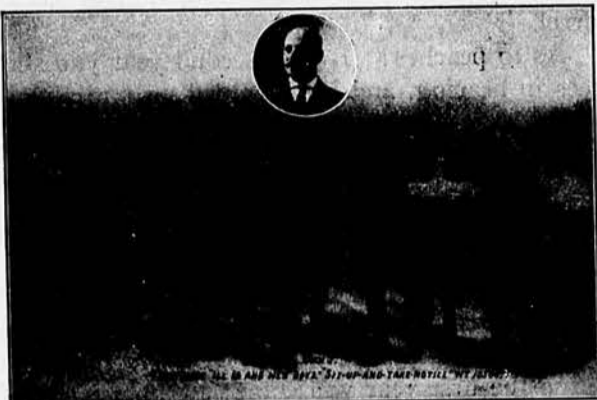
**HORSES AND MULES**

# FRANK IAM'S

"Peaches and Cream" stallion and mares are best investments for deposits. you have in "banks" and can't draw out. Wait me around again Willie," then buy a stallion and two mares of Iams. They will make us 40 per cent and we will know where our money is. Iams will accept our certificate of deposit drafts, certified checks or bankable notes. Iams and his winners and sons of winners "stirs up the animals." He hypnotizes the buyers with a "horse show" of bargains. Owing to bad crops, Iams' cash, his 26 years experience, he is selling more and better horses than ever. "Willie," buy an "Iams stallion" this fall, save \$300 and get choice of

## 200 Percherons, Belgians and Coachers 200

Two to six years old, wt. 1700 to 2560 lbs., 90 per cent black boys, 50 per cent ton stallions. All registered and approved. Mamma, Iams is a hot advertiser, but he has "the goods." He sells "toppers" at \$1000 and \$1,500, so good they need not be "peddled" or put on the "auction block" to be sold. He has on his selling clothes, they fit all buyers. No men with money or bankable notes get away from Iams. He buys, owns and sells more stallions than any man in the U. S., saves thousands of dollars to stallion buyers. He is not in the stallion trust. Iams places 1,000 or \$1,500 insurance.



**\$1,000 — SAVED AT IAM'S — \$1,000**

Ikey, what a rich graft these "slick stallion salesman" are working on the honest farmer, selling fourth-rate stallions at \$2,000 and \$5,000! Iams sells "top-notchers" so good, big and cheap that they do not need to be peddled to be sold. Mr. Buyer, see Iams' stallion yourself. Take no "gold brick stallion salesman's word." Iams has "the goods" you read about. His establishment is worth going 2,000 miles to see. Iams makes competitors "holler." He is knocking "high prices out of Xmas tree, Iams saws woods, "butts in," sells more stallions each year. He makes every statement good. George, dear, buy a stallion of Iams. His \$1,300 stallions are much better than our neighbors paid those Ohio men \$4,000 for. Then I can wear diamonds. Iams speaks the languages, buys direct from breeders, pays no buyers, salesmen or interpreters, has not two to ten men as partners to divide profits with. Iams guarantees to sell a better stallion at \$1,000 to \$1,500 than are sold to stock companies for \$2,500 to \$5,000 by slick salesmen, or pay you \$500 for your trouble, you the judge. Iams pays horses freight and buyer's fare; gives 60 per cent breeding guarantee. Write for eye-opener and greatest horse catalogue on earth.

References—St. Paul State bank and Citizen's National bank.

**ST. PAUL, NEB.**



## Robison's Percheron Sale

Seventh annual sale, Wichita, Kas., February 18, 1908.—40 mares, 20 stallions. Catalogs ready January 15.

**J. W. & J. C. ROBISON, Towanda, Kans.**



**FRANK WASSON,**  
Importer and Breeder of  
**Percheron and Shire Horses**  
Stallions of good ages or sale at my barns at all times.  
**FRANK WASSON, Clearwater, Kansas**



Just returned home with a grand lot of European stallions—Percherons, Belgians, Shires and German Coach. In all of our 21 years importing we have never landed a better lot; big, strong, massive fellows, heavy bone, good actors and sound as gold dollars; ages, 2, 3, and 4 years old. As to prices, there is no concern; in the United States can sell an honest, all sound and all right stallion for less money than we can. Come and see us and examine our stallions. When you arrive in Lincoln, take the State Farm or Interurban street car. Inquire for Sullivan's barns. If impossible to come at once, write us for further information concerning our stallions.

**THE LINCOLN IMPORTING HORSE COMPANY,**  
A. L. SULLIVAN, Mgr. LINCOLN, NEB.

### 20 KENTUCKY AND SPANISH JACKS

from 14 1/2 to 16 hands high, from 2 to 5 years and as good as grow.

### 10 PERCHERON, FRENCH DRAFT AND GLYDE STALLIONS

from 2 to 5 years old weighing from 1,800 to 2,000 pounds, sound and of the right type, absolutely sound.

Every animal I sell will be fully guaranteed just as represented. If you are in the market for anything I have it will pay you to visit my barns. Must sell this stock within the next thirty days. Come quick.

**O. P. HENDERSHOT — HEBRON, NEBRASKA**

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Solomon, Kans.  
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BOTH PHONES  
1249, West.

B. R. BEALL, Sec'y & Mgr.  
Kansas City, Kansas.  
P. W. GOEBEL, Treas.,  
Kansas City, Kansas.

CAPITAL STOCK, \$50,000

## The Farmers Terminal Grain Co.

Receivers and Shippers of  
Grain and Mill Products

Board of Trade Building.

KANSAS CITY, KANSAS.

## JACK AND JENNET SALE

At my farm 1 mile south of Blackburn, Okla., January 10, '08.

5 head of Mammoth Jacks and 13 head of Mammoth Jennets, 10 of which are bred to Mammoth Jacks. 6 of the above jennets are bred to James Jefferson, 6 years old, a Mammoth Jack, 16 hands high, black, with white points, weight 1,100 pounds.

4 are bred to Bismark, 3 years old, black with white points, 15 hands high, weight 1,000 pounds.

Cronje is a brown jack, coming 3 years and is 15 hands high.

1 fine yearling jack, black in color, and one jack colt, just weaned.

The above jacks and jennets are all genuine Mammoth stock, extra large and good colors.

Write and come to the great sale.

**HENRY D. C. POOS, Owner,**

**Blackburn, Okla.**

Jno. W. Teter, Clerk, Eli Tatro, Auctioneer.

When writing Advertisers please mention this paper

## ALL ABOARD

For the Great K. Garnett O. I. C. Brood Sow Sale at BEATRICE, NEB., JANUARY 8.

40 Brood Sows and about 10 Spring Boars.

Every one a hot one and every one a good one. There will be about six tried sows, some 10 fall yearlings sired by Climax 12567 and K. Kenneth and bred to K. Garnett. The rest will be early March gilts sired by J. Garnett bred to Choice Goods 14767 and Expansion 16773. This bunch is especially reserved for this sale and I am offering as richly bred and well grown out lot of hogs as seldom go through a sale ring, and if you are looking for something fancy and practical it will pay you to attend this sale.

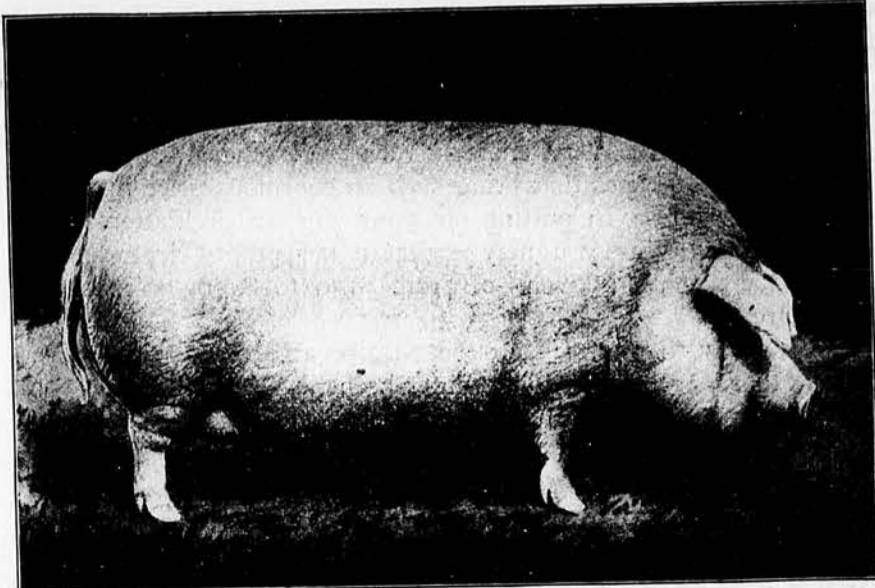
Sale will be held in town under cover and will take place rain or shine. Parties from a distance will be entertained free at the Butler Hotel, one block east of B. & M. and U. P. depot.

Terms of the sale will be 8 months without interest if paid when due, and if not paid when due to draw 10 per cent from date. Any bid sent to me or to any of the auctioneers or fieldmen will have honorable treatment. Remember the date, January 8, 1908. Send for catalogue.

Auctioneers, Cols. Frank Zaun, Independence, Mo.; J. Zack Wells, Kansas City, Mo.

J. W. Johnson, fieldman for The Kansas Farmer.

**JNO. CRAMER, — — Beatrice, Neb.**





# GETTING ALONG IN THE WORLD

**H**AVE you who read the following statement an idea of what a home in the best fruit-raising country in the State of Washington (and that means in the world) can offer you? In this advertisement we want to make a plain, straight talk to you, giving you the actual facts in regard to what you can do in fruit-raising, bee culture, poultry farming and general farming in the irrigated lands at Patterson on the Columbia River in southern Benton County, Washington.

Now, suppose you get down the map and find the point where the Snake River joins the Columbia River; then let your finger follow the Columbia down stream until it reaches a point about 50 miles below, where the river runs east and west and where the Patterson irrigated lands are situated on the north side of the river. Now, have you found the place? If you have, here are a few of the things that the Patterson irrigated lands will do for you.

First, about the climate: What a glorious climate this is—the mildest in the mild State of Washington. At this point the land has a gentle slope to the southward, catching the sun in full; and here, according to the records of the State Weather Bureau of Washington, is found the very mildest climate in the entire state—a climate so mild that it could hardly be said to have a winter at all; where certain kinds of vegetation make a growth all through the winter months, and where the last of February and the beginning of March sees spring coming in almost full strength, with growing plants, vines, trees and blooming flowers. Such is the climate in this most favored location of the great State of Washington.

Now, about transportation: Look again at the map and place your finger at the point where the Snake and Columbia Rivers meet. Follow down the Columbia on the north bank to where it joins the Willamette. Along this river is now being built one of the most remarkable railroads in the United States, having the fewest curves and lightest grades. The first of January will see this great railroad in operation right past the door of your fruit farm when you get it at Patterson. Thousands of men and teams have been at work for many months on this great transcontinental line. In addition to its railroad advantages, you have steamboat navigation on the great Columbia River, thus assuring you of water competition in getting your product to market.

"But," you ask, "what can I grow at Patterson?" This is a pretty big question. These warm, sunny, deep-soil, irrigated lands will grow most anything that will grow anywhere. It has a prodigious capacity for production.

Let us take fruit: Do you know that within a certain climate and upon a certain soil along the Columbia River are produced fruits of such great perfection and magnificent quality that they are selling for prices two or three times as high as the very best fruits that can be raised anywhere east of the Rocky Mountains.

Again you ask, "To get right down to facts, what can I make per acre if I put out fruit in the Patterson irrigated lands?" This depends considerably on yourself. Nature has provided lavishly, but man must do his part. We will suppose that you give the best culture and attention, for instance, to a vineyard—and the climate here is so mild that you can raise the very choicest variety of tender European grapes, those grapes that bring such an enormous price in the eastern markets. In putting out your vineyard in Patterson, by the third year you may expect a net profit—dependent upon the attention given—of from \$150 to \$400, or more, per acre.

Now as to apples: You can raise an early variety of apple there, or the late long winter keepers. We will suppose that you put out an orchard of 70 trees to the acre of some of the early varieties of apples—apples that in this climate will be the very first to reach the fancy early market. You should realize from \$300 to \$600 per acre from your spring apples

and from \$500 to \$2,000 per acre from your winter apples.

If you plant the Doyenne du Comice pear—the Queen of Fruits—you should realize a colossal profit of from \$1,000 to \$4,000 per acre, for the Comice has been selling for the last two years for 15 cents a pound, or at the rate of \$24 per barrel.

As to peaches: By the second year you should have your trees in bearing, and by the third year in almost full bearing. As to the profits, they should range from \$200 to \$400 or \$500 per acre. We think you should put out your first orchard in about one-half grapes and one-half peaches, but of course you will have the other fruits—like cherries, apricots, nectarines, and every other kind of splendid fruit that grows so wonderfully in this extraordinarily mild climate.

You will ask, "How long will it take to get my land under cultivation?" If you come in March or April you should have a crop the first year you come; a paying crop of potatoes, tomatoes, watermelons, canteloupes, or Hubbard squash, all of which grow in wonderful profusion and perfection at Patterson.

"But," you ask, "what about irrigating the land?" This is already arranged for. The water from the mighty Columbia River will be carried over every acre of the land in abundant time for you to get your land in cultivation and irrigate for this season's crop.

Again you ask, "Is not irrigation something very difficult and expensive to do?" Well, you will find out that it is about the most joyous way of raising crops that you have ever known. It means that your crops will be absolutely certain; that they will always be very large; that there will be no cry of distress arising from either any kind of short crops or failures, which cannot possibly occur under irrigation in this warm climate.

Then, again, you must bear in mind that the warmer and longer the summers, just so much the greater will be your profits. In the sunny, balmy climate of Patterson sunshine is literally turned into dollars and, to judge by the experience of the old settled surrounding irrigated districts the land you buy here should rise in value at the rate of from \$112 to \$225 on each acre every year. Pretty big profit, isn't it? But remember, to get these big profits it is absolutely necessary that you should buy your irrigated land in a warm climate, for it takes the union of warmth and water to bring about the colossal profits of which we have been telling you.

Now you ask, "If I come to Patterson and decide to buy, how much money must I pay down for my land?" We make that easy for you. Come right to Patterson, pick out your land, and put your money and efforts in improving your place; make us only a small payment down and then take ample time to pay for the balance of your land from the crops you produce upon it. And don't forget, if you want to raise that wonderful clover plant—alfalfa—you can get about four crops of about two tons to each cutting during a single season at Patterson. What do you think of that? Then we will say that, in addition, you can graze your alfalfa all winter with your hogs, horses or cows and thus get a double benefit.

Won't it be a glorious thing for you when you practically get rid of winter, with its immense coal and wood bills, its general discomfort, and exchange it for a country that has an almost perpetual spring? You will find out what it means when you come, and then wonder why you delayed so long.

Don't forget the advantage to your good wife of having a yard full of fruits and flowers, with the doors standing open most any winter day. That's what moving to Patterson will mean for you.

But we cannot tell you all about Patterson and its advantages this one time. Write for our free illustrated booklet, "RESULTS OF IRRIGATION," showing map and description of what we offer you; then make up your mind what you will do. WRITE TODAY.

**MUTUAL REALTY COMPANY, - 304 Pioneer Building, Seattle, Wash.**