

# KANSAS FARMER



Volume XLIII. Number 39

TOPEKA, KANSAS, SEPTEMBER 28, 1905

Established 1863. \$1 a Year

## KANSAS FARMER.

Established in 1863.

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

E. B. COWGILL.....President  
J. B. McAFEE.....Vice President  
D. C. NELLIS.....Secretary and Treasurer

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I. D. GRAHAM.....Associate Editor  
H. A. HEATH.....Advertising Manager

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Special reading notices, 25 cents per line.  
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To insure prompt publication of an advertisement, send cash with the order; however, monthly or quarterly payments may be arranged by parties who are well known to the publishers, or when acceptable references are given.  
All advertising intended for the current week should reach this office not later than Monday.  
Every advertiser will receive a copy of the paper free, during the publication of the advertisement.  
Address all communications to

KANSAS FARMER CO.,

116 West Sixth Ave., Topeka, Kans.

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Soll Physics Laboratory Guide, by Prof. W. H. Stevenson, and Assistant Prof. I. O. Schaub, of Iowa State College, meets a widespread demand for textbook for use in agricultural colleges and high schools. The experiments outlined in this book have been used quite generally in recent years, but are now presented for class work for the first time. The exercises (40 in number) are prepared with special reference to the need and skill of the student, and are amply illustrated. For the use for which the book is designed, it is valuable. Orange Judd Company, New York, publishers.

During the early days of Kansas a young man in the East wrote to the New York Tribune and stated his hesitancy about getting married because conditions then existing so circumscribed opportunities for making a liv-

ing that he was fearful about assuming added responsibilities. A lady writer of the Tribune staff said he ought to be ashamed for his lack of enterprise and said: "There is land in Kansas capable of producing 30 bushels of wheat per acre." Well, our old friend, G. M. Kellam, whose farm is not in the "wheat belt" but is in Monmouth Township, Shawnee County, and lies on the highest land in the county, has just received returns of 400 bushels from ten bushels of Turkey Red wheat sown last fall on ten acres of this high land. But Turkey wheat was not known in the early days of Kansas.

At a recent meeting of the executive committee of the American Royal Live-Stock Show it was decided to rigidly enforce the rule requiring all attendants in charge of animals in the show ring to appear in uniform. Animals in charge of attendants not in uniform will be barred from the ring. The uniform adopted for the cattle department consists of blue denim overalls

case Jones has taken his full share of the corn before Brown got any part of his. This changes the rights of the parties and places Jones under a different rule of law than if the loss had occurred before the division. Had the loss occurred before a division, it would have fallen on each party according to their respective interests. After the division made by Jones, by taking his full share, he became the bailee of Brown and was required by law to take extra care of Brown's corn, and became responsible for it, unless Brown consented to the method of the division, and to the manner of caring for his third. If the division had been made as the husking progressed, Jones would not have been liable for losses.

### THE POWER OF THE RIVERS OF THE PLAINS.

EDITOR KANSAS FARMER:—There is a feeling with many people who have been pioneers on the banks of such

the heights named. Hydraulic engineers seldom recommend the ram for handling large volumes of water. Under heavy service it is not a long-lived machine, the constant thumping tending to its ultimate destruction.

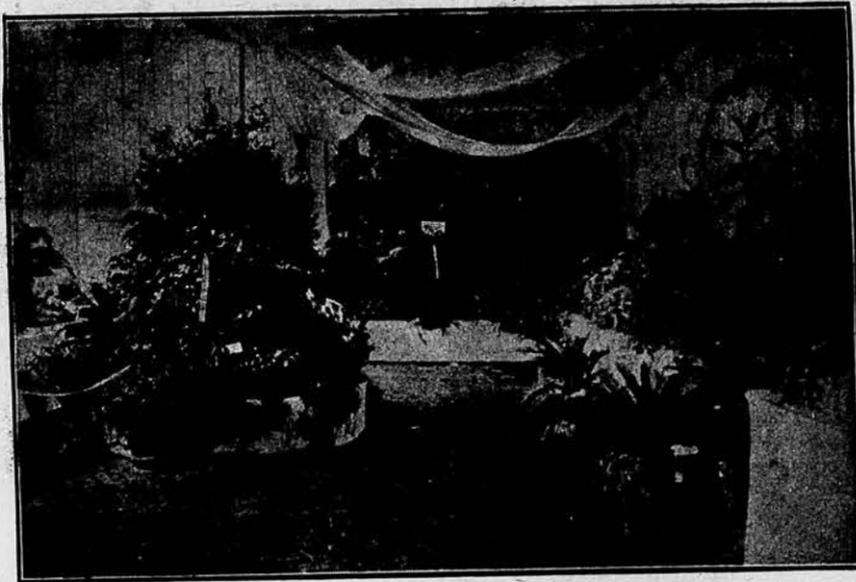
The problem of developing the power of the water which constantly passes down the valleys of the larger streams of the plains has brought out several suggestions. It has been shown by recent investigations of the U. S. Geological Survey that there is an unending underflow down these valleys. The immense volume of water found among the sands and gravels of the substratum is moving slowly but surely. To bring this underflow to the surface; to lead it by a less incline than that of the valley to some point where it can be made to fall suddenly through a considerable distance and at this point be applied by any of the well-known methods to the driving of machinery, is a simple problem to state but a hard one to solve. It has been proposed to run a water-tight gallery into the underflow on an incline of say 12 inches to the mile, to place a perforated bulkhead at the upper end of this gallery and to continue the gallery down stream until a head has been attained sufficient to develop power. Another proposition is to install a siphon, one leg of which shall extend vertically into the underflow and shall be perforated for a suitable length of its lower end; the other leg to follow the lay of the land just beneath the surface and be extended down the valley far enough to afford the desired head. In either case due allowance would have to be made for loss of force by friction, but this loss need not be great provided large galleries or very large pipe be used. In the case of the siphon, provision is necessary for discharging the air that is sure to accumulate at the highest part of the bend. This is a detail, however, which will be looked after by the construction engineer.

The objection raised to all gravity systems is that the extent of the apparatus required involves a very large initial outlay. It is scarcely to be doubted, however, that sometime, the fact that water runs down hill wherever it has an unobstructed opportunity to do so and is willing to work gratuitously in exchange for the privilege, will be utilized in the construction of numerous power and irrigation plants in the valleys of the streams mentioned by our correspondent. While these streams are exceedingly variable in volume the underflow is believed to be practically constant; underflow works would be subject to almost no vicissitudes, and the water the would deliver would be free from sediment.

### KANSAS CORN-BREEDERS' CONTEST.

At a meeting of the directors of the Kansas Corn-Breeders' Association, held at the KANSAS FARMER office September 15, it was decided to hold the next meeting of the association at Manhattan during the latter part of January or early in February, the exact date to be fixed by the secretary. Since the meeting is to be held at

(Continued on page 990.)



WEST SIDE FORESTRY CLUB EXHIBIT, KANSAS STATE FAIR.

and jumper and white cap, and may be procured on the grounds at a cost of \$1.25. No passes will be sent out in advance to members of breeders' associations. The roll books of the cattle- and horse-breeders' associations participating in the show will be at the secretary's office in the fine-stock pavilion, near the entrance to, and outside the show grounds, and members of these associations will be supplied with season tickets on application to the secretary.

### A RENTER'S MUDDLE.

EDITOR KANSAS FARMER:—Jones rents a farm of Brown for one-third delivered in crib; Jones husks his share of crop, then a part of Brown's share is stolen from the field. Can Jones be held responsible for the stolen corn or any part of it?

Butler County. A SUBSCRIBER.

A correct answer might be made by an answer of yes or no, depending on collateral facts that might change the true or real facts as they might be developed in a trial in court. In this

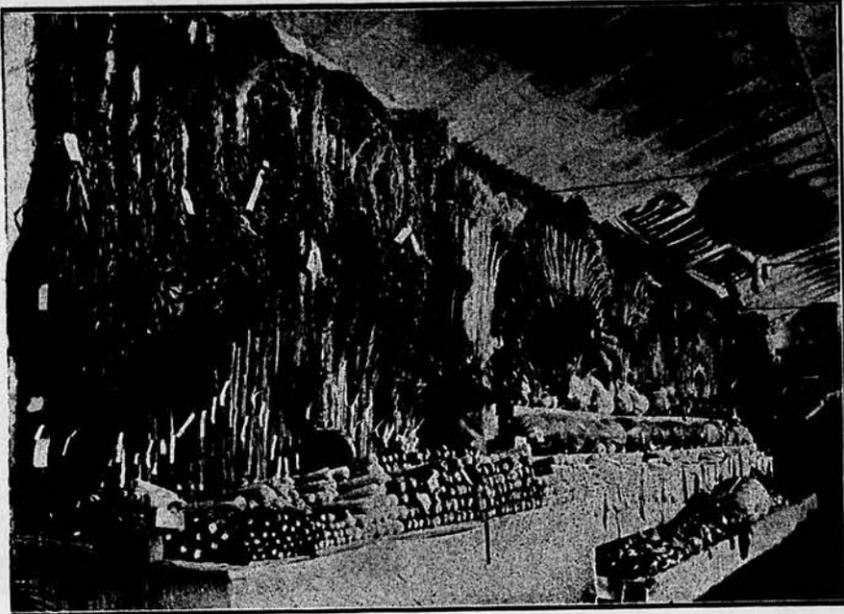
streams as the Platte and the Kansas Rivers, with their great volumes of water, combined with their uniform fall of some six feet to the mile, that much power is going to waste that could and should be applied to useful purposes to take the place of costly coal as a generator. Is this idea well founded, and can the principles of the hydraulic ram be successfully applied on the banks of such streams so as to raise water say one or two hundred feet?

J. J. HAWTHORNE.

Dodge County, Nebraska.

This question has been asked many times and in many forms during the last thirty years. The extreme variability of flow is the chief obstacle to the utilization of the power. One of these streams at very low water can give little power. At high water dams and other works are exposed to much danger, and while the high water continues, it is scarcely practicable to control any of the power.

The hydraulic ram is a fairly satisfactory apparatus for raising small or moderate amounts of water and under favorable conditions may be used for



SHAWNEE COUNTY EXHIBIT, KANSAS STATE FAIR.

William Avery, Waldron, Ind.....	8
Philip C. McDonald, Princeton, Mo....	5
George Kitchen, jr., Gower, Mo.....	6
Parker Parrish & Miller, Hudson, Kans.....	13
E. T. Davis, Iowa City, Ia.....	11
M. M. Sterns, Humboldt, Neb.....	6
Omer Chatterton, Maryville, Mo.....	3
C. D. Hooker & Son, Maryville, Mo....	5
Louis Aillaud, Newton, Ia.....	2
A. C. Binnie, Alta, Ia.....	8
W. B. Seeley, Mt. Pleasant, Ia.....	3
McLachlan Bros. & Johnson, Estill, Mo.....	2
Davis Bros., Maryville, Mo.....	2
T. J. McCreary, Highland, Kans.....	1
W. C. White, Carrollton, Mo.....	1
Total .....	137

**The Hutchinson Kansas State Fair.**

Hutchinson did two things this year that were well worth doing and that nobody else did. She had a week of continuous good weather which no other fair of prominence has enjoyed this season and she had enormous crowds in attendance at her State Fair which began on September 18. It is claimed that the attendance on Thursday, which is the big day at the fair always, was the largest ever assembled in Kansas for any purpose, and numbered 30,000 people. The attendance on other days was in the usual proportion.

This fair has grown so rapidly in size that the Fair Association has been unable to provide buildings suitable for their purposes. Some additions have been made each year and this year notes the completion of a much-needed cattle barn of substantial make, and of other smaller buildings. In spite of these additions, however, the crowds of people in attendance and the numbers of exhibits caused considerable congestion at times and in places.

Although located in the center of a rich territory which makes of it an ideal place for holding a large fair, Hutchinson is sadly lacking in accommodations for a great crowd of visitors. She is deficient in hotel room and her means of transportation to and from the fair grounds are exceedingly primitive, consisting as they do

of an antiquated horse-car line which is only used by visitors as a last resort.

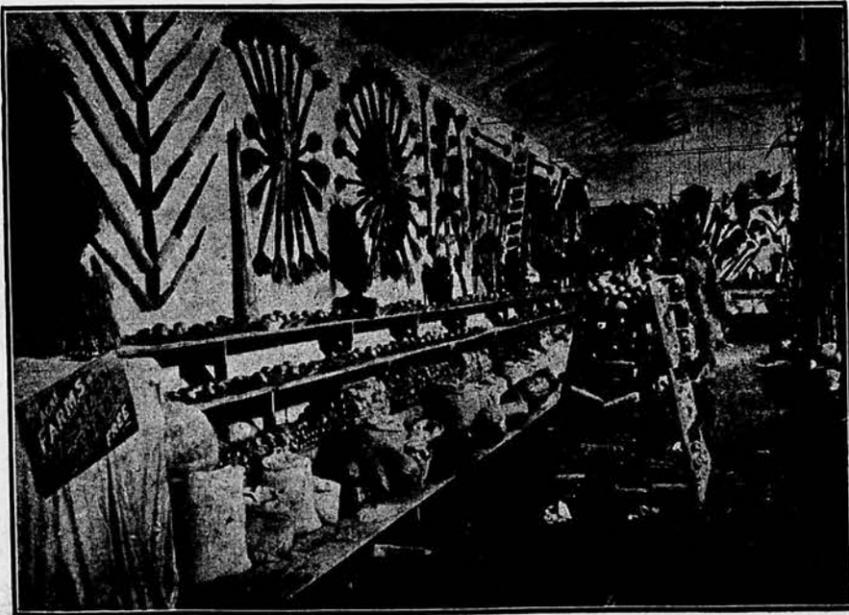
The management at Hutchinson is quite enterprising and their patronage has been liberal, so it is hoped that by another season some provision shall be made for a live-stock-judging pavilion. The live-stock exhibits make one of the strong features of this fair and it is now necessary for interested spectators to stand in the open air about the stock that is being judged, much to their dissatisfaction. As the crowd about the show-rings is a constantly changing one, the interested visitor who really wants to study the animals is badly handicapped.

Agricultural hall was crowded to the limit with a very fine exhibit of both agricultural and horticultural products, though the latter lacked considerably in quantity because of this being an off year for fruit in Kansas. There is no better fruit district in the State than that which surrounds Hutchinson, and generally their horticultural exhibits are remarkable as to quality and quantity.

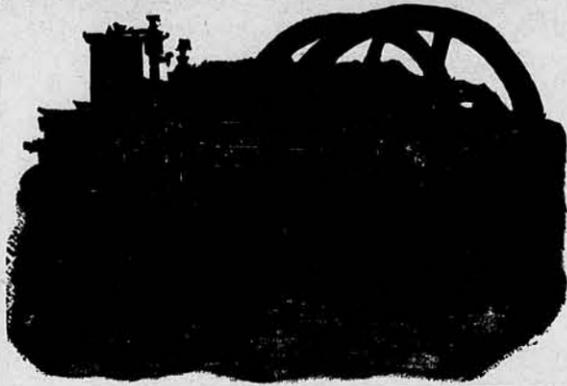
The poultry show was the largest made in the State for several years with the exception of that made by the State Poultry Association at Topeka in the winter. Judge J. J. Atherton of Emporia, who judged the birds was very complimentary as to their quality.

The dairy exhibit was light and consisted only of a few sample packages of butter sent in by the farmers. This department should be more fully developed, and we hope another year will show a marked increase in quantity of exhibits shown here.

The largest building on the grounds was devoted to the women's department, which here included floriculture. Here, also, were found exhibits made by the public schools as well as those things more particularly interesting to woman's domain. This building was



FRANKLIN COUNTY EXHIBIT, KANSAS STATE FAIR.



Western Made  
and  
Well Made

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DEMPSTER IMPROVED  
STEEL WIND MILL  
No 7

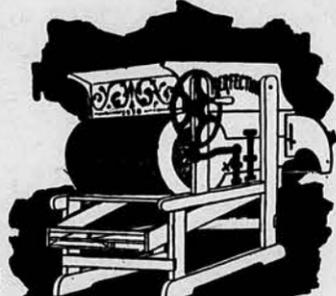
ROLLER RIM GEARS  
THEY STOP THE  
NOISE AND LESSEN THE WEAR.  
LATEST, STRONGEST, BEST.  
FACTORY, BEATRICE, NEB.

THE "PERFECTION" Cleaner, Separator and Grader of Seeds and Grain

You Can Sow

20%

Less of Seed



And Can Reap

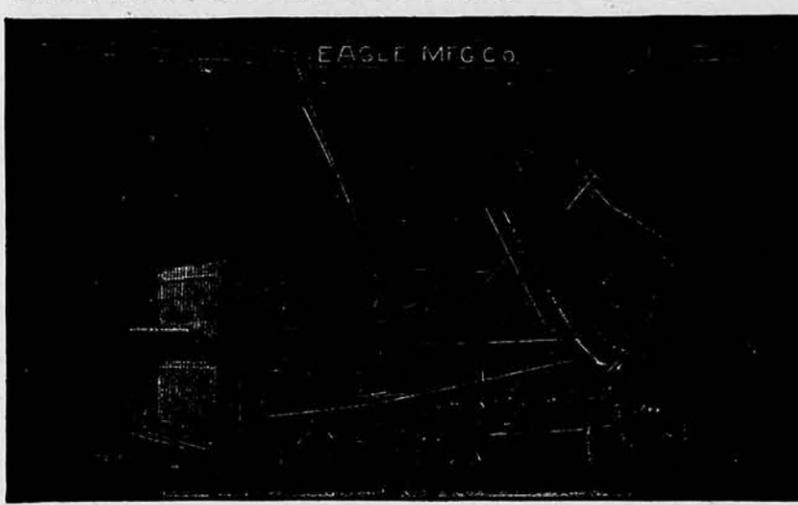
20%

More of Grain

The "PERFECTION" is not an ordinary machine; but is more of an improvement over the ordinary Fanning Mill than the Cream Separator is over the old time Skimmer. The prosperous farmer plants only the best of seed or grain. Why not belong to that class and plant only the first grade of seed, saving the fowl, undeveloped and cracked grains to feed your hogs and chickens? The "Perfection" is the only machine that will absolutely leave wheat free from all rye, cheat, oats, etc., clover, alfalfa and millet free from all buckhorn and plantain, and the only machine on the market that will make THREE GRADES of the cleaned grain. We guarantee every machine to clean, separate and grade any and all kind of seed and grain with the greatest accuracy and if a "Perfection" which you purchase from us will not clean, separate and grade seed more to perfection than you could even suppose possible and your entire satisfaction it can be returned to us without one penny of cost to you. Every machine is made from the very best of material and we therefore can sell them on time if time is desired; because we know that they will stand every test. Drop us a line stating what kind of grain you raise and we shall be glad to send sample of same kind of grain, showing THE WAY A "PERFECTION" DOES ITS WORK. Also to quote prices and to furnish other valuable information regarding the "Perfection." Don't miss the opportunity of making 20 per cent more out of your crop, but write us at once. It has paid others many times over. It will pay you.

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The EAGLE KAFFIR CORN HEADER



The Only Machine Made That Will Successfully Head and Elevate Kaffir Corn  
Write for Prices and Agency and Mention The Kansas Farmer

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Only \$40 THE GREATEST BARGAIN  
ON EARTH

KEEPS OUR COMPETITORS AWAKE  
NIGHTS TO TELL HOW WE DO IT.

DESCRIPTION—Selected second growth hickory wheels and gears; Norway iron clips and bolts; inch axle double collars, full length body loops, long body, any width. Solid spring bellows back; sanitary spring cushions. Trimmed in dark green, tan or maroon leather, cloth or plush. Ideal spring cross bar in place of wooden cross bar if preferred. All wool top lining, leather quarters and back stays, curved top joints if desired, complete with storm apron, side curtains, boot and full length carpet. Nickel dash rail, hand rail and lazy back rail. Send for Big Free Catalogue of Vehicles and Harness in colors. A buggy factory selling direct must pay all of their expenses, salaries, etc., out of a few thousand buggies. Our expenses are all paid out of our agricultural implement factory. A buggy factory would starve to death on the small profit we get on a buggy. Write us before buying. The only plow factory in the world selling direct to the consumer.



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# A SPOT CASH GUARANTEE

We don't try to tell you what **Security Stock Food** has done for others; we show you what it will do for you.

Use **Security Stock Food** (glutenized) for growing animals; for fattening animals; for work horses; for milch cows. The Food won't cost you a cent if you can't see that **Security Stock Food** has saved feed, made quicker growth; kept your animals in better condition, given more milk, and made you more money. Write us if not satisfied and we will refund price in full. You are the sole judge. No questions asked.

For five years this guarantee has been on every package sold. It also covers **Security Poultry Food, Lice Killer, Gall Cure, Colic Cure, Worm Powder, Calf Food, Heave Remedy, Healer and Rheumatic Liniment.** **Security** preparations are sold by dealers in almost every town in the United States, who will recommend them highly and "back up" our guarantee.

**SECURITY IS THE ONLY GLUTENIZED STOCK FOOD.**  
**SECURITY STOCK FOOD CO.**  
MINNEAPOLIS, MINN.

thronged with visitors throughout the week.

The display of agricultural implements was placed about the grounds wherever convenient space permitted. Taken as a whole, it was not large, though some of the individual exhibits were. A number of enterprising manufacturers had erected tents to house their exhibits while the larger machinery, of course, stood out of doors.

The strongest feature of this fair was in the live-stock show. Hutchinson had the largest representative breeders' exhibit of Percheron horses west of the Mississippi this year. This remark does not apply, of course, to those great importers, whose names are so well known in the show rings but who generally show in the stallion classes only. The exhibitors of Percherons here were all breeders and all Kansas men, who came out strongly in the mare classes, besides having one of the finest shows of stallions made at any Western fair this year.

The showing of the beef breeds of cattle was a strong one generally, though some of the breeds failed to fill all the classes and in a few there was no competition. The swine-breeders in Central Kansas were well represented, and the hog show was a strong one this year. In addition to the four breeds usually seen at Western hog shows, Hutchinson this year had an exhibit of Tamworths, made by C. M. Frelove, Plevna, Kans., who is just starting a new herd and who hopes in time to rival his brother at Clyde, Kans. This breed is not frequently seen at Southwestern fairs.

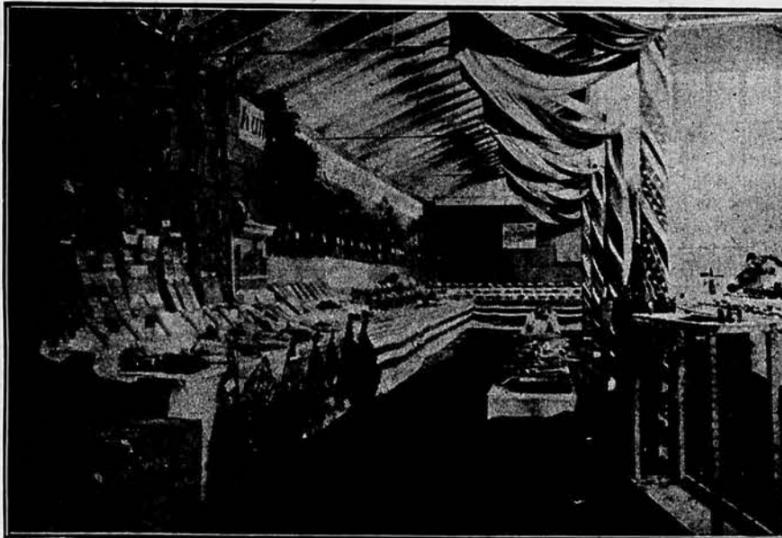
The exhibit of Percheron horses was made by J. W. & J. C. Robison, Towanda; Henry Avery & Son, Wakefield; F. H. Schrepel, Ellinwood; and C. F. Cooper, Hutchinson. These horses were judged by Geo. B. Ross, of Alden, and Thos. O'Mara of Colony with W. B. McCurdy, of Hutchinson acting as referee. Special prizes were given by the American Percheron Importers and Horse Breeders' Association, consisting of gold medals for each of the following groups: Best group of five stallions, best group of five mares, champion stallion and champion mare.

The Shorthorn cattle showed up

strongly this year with a number of well-known herds. The exhibitors were the Kansas Agricultural College, Manhattan; T. K. Tomson & Sons, Dover; C. S. Nevius, Chiles; J. F. Stodder, Burden; A. L. Sponsler, Hutchinson; Thomas, Jamison & Mitchell, Allison; and Ed. Green, Morrison, Colo. Prof. R. J. Kinzer, of the State Agricultural College, judged all of the rings except aged bull and heifer calf in which he had entries. These were judged by Parker Parrish, the Angus breeder, of Hudson, Kans. Three hundred dollars of the prize money included in these rings was appropriated by the American Shorthorn Breeders' Association.

The Aberdeen-Angus show was the strongest ever held at Hutchinson. Three States were represented by the following exhibitors: Parker Parrish & Miller, Hudson, Kans.; M. P. & S. E. Lantz, Carlock, Ill.; Geo. L. Kitchen, Gower, Mo.; and J. B. Withers, Missouri City, Mo. Three hundred dollars of the prize money was given by the American Aberdeen-Angus Breeders' Association. This breed was judged by a committee consisting of Prof. R. J. Kinzer, Manhattan; J. F. Stodder, Burden; and James Tomson, Dover.

The Galloway show was not strong in numbers though S. M. Croft & Son, of Bluff City, had a good show of well-fitted animals. They filled all the classes and Gabrielson Bros., of Hutchinson, furnished competition in



KANSAS EXPERIMENT STATION EXHIBIT, KANSAS STATE FAIR.

a few rings. Professor Kinzer tied the ribbons on this breed.

Steele Bros., of Belvoir, were the only exhibitors of Hereford cattle. They were present with the same here that they had at Lincoln, Neb., and Topeka. They were given all the prizes by Professor Kinzer.

The Red Polled cattle were represented by but one herd. This belonged to Geo. Groenmiller & Son, of Pomona, and was the same herd shown by them at Topeka. Professor Kinzer tied the ribbons on this herd.

The Poland-China show was a strong one, made up of herds shown by A. P. Wright, Valley Center; M. O. Kilmer, McPherson; A. G. Lamb, Augusta; Wm. Maguire, Haven; F. P. Maguire, Hutchinson; C. E. Durand, Hutchinson; and L. W. Brown, Burton. All breeds of swine were judged by E. E. Axline, of Oak Grove, Mo.

Exhibits of Berkshires were made by C. W. Henry, Fort Logan, Colo.;

J. P. Sands & Sons, Walton, Kans.; W. R. Holt, Falls City, Neb.; Geo. Rummell, Hutchinson; and W. R. Sands, Walton.

Duroc-Jersey swine were shown by T. J. Davis, Hutchinson; B. W. Harned, Beaman, Mo.; Mr. & Mrs. W. R. Crow, Hutchinson; Henry Anderson, McPherson; N. B. Sawyer, Cherryvale; J. W. Cones, Burton; Wm. Gillespie, Halstead; and J. F. Stodder, Burden.

There was but one exhibitor of Chester Whites. This was F. D. Humbert, of Nashua, Ia., who was present with the same herd that he showed at Des Moines, Lincoln, and Topeka. Judge Axline gave him all the ribbons.

The Hutchinson fair provides that in sweepstakes classes of swine all breeds shall compete against each other. This brings about some curious results that are not to be seen anywhere else so far as we know. The awards made in this class will be found under the head "Sweepstakes."

## Horse Awards.

### PERCHERONS.

Aged Stallion—First to Avery & Sons, on Basquet; second to J. W. & J. C. Robison, on Iena.

Stallion, three years old and under four—First to Schrepel, on Blancin, Jr., second to Schrepel, on Ellinwood King.

Stallion, two years old—First to Robison, on Midnight.

Yearling stud—First to Robison, on Castelle.

Stud colt under one year—First to Robison, on Castellain; second to Schrepel, on Admiral Togo.

Brood mare, produce shown—First to Robison, on Deborah, showing Itonia,

Castelle and Castellaire as produce; second to Schrepel, on Hopast, showing Blanche as produce.

Aged mare—First to Robison, on Lucrece; second to Avery, on Infanta.

Mare, three years old—First, second and third to Avery, on Mina, Lena and Altestia.

Mare, two years old—First to Robison, on Itonia; second to Avery, on Ada.

Yearling mare—First to Avery, on Fan- chon; second to Robison, on Celestine.

Mare, under one year—First to Robison, on Lady Alice.

Group of five mares—First to Avery; second to Robison.

Group of five stallions—First to Robison.

Champion mare—Robison, on Lucrece.

Champion stallion—Robison, on Gasino.

Mare, under three years old, bred by exhibitor—First to Avery.

Mare, under three years old, bred by exhibitor—First to Robison; second and third to Avery.

Stallion, over three years old, bred by exhibitor—First to Schrepel.

Stallion, under three years old, bred by exhibitor—First and second to Robison; third to Avery.

American bred stallion—First to Robison; second to Avery; third to Schrepel.

American bred mare—First to Robison; second and third to Avery.

Imported stallion—First to Robison; second to Avery.

Pair registered mares in harness—First to Avery; second to Robison; third to Schrepel.

Sweepstakes draft stallion, any breed—First to Avery.

Sweepstakes draft mare, any breed—First to Robison.

Sweepstakes pair draft mares—First to Avery.

Breeder's herd, consisting of a stallion and three mares—First to Robison.

### Cattle Awards.

#### SHORTHORNS.

Aged bull—First to Agricultural College, on Ravenswood Admiration; second to Thomas, Jamison & Mitchell, on Orange Viscount; third to A. L. Sponsler, on Grand Comet; fourth to Ed. Green, Morrison, Colo., on Best of All.

Bull, two years old—First to T. K. Tomson & Son, Dover, Kans., on Silvery Knight; second to C. S. Nevius, on Prince Pavona; third to J. F. Stodder, Burden, Kans., on Lord Filbert; fourth to Ed. Green, on Ardathan Mystery.

Yearling bulls—First to Thomas, Jamison & Mitchell, Allen, Kans., on White Goods (son of Choice Goods); second to

## HORSE OWNERS! USE

### GOMBAULT'S 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 descriptive circulars.

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**DEATH TO HEAVES**  
NEWTON'S Heave, Cough, Dis-temper and Indigestion Cure. A veterinary specific for wind, throat and stomach troubles. Strongly recommended. \$1.00 per can, of dealers, or Exp. prepaid. The Newton Remedy Co., Toledo, Ohio.

**The ONE MINUTE Sheep Dip**  
**Dipolene**  
also best dip in the world for hog lice. Books, "Dipping for Dollars," free. Marshall Oil Co., Box 14, Marshalltown, Ia.

## Ring-Bone

So common nearly every body knows it when he sees it. Lameness, and a bony enlargement just above the hoof, or higher and on the upper pastern bone, sometimes extending nearly around the pastern, sometimes in front only, or upon one or both sides. Cases like the latter are called Sidebone. No matter how old the case, how big the lump, how lame the horse, or what other treatment has failed, use

### Fleming's Spavin and Ringbone Paste

Use it under our guarantee—money refunded if it fails to make the horse go sound. Often takes off the bunch, but we can't promise that. One to three 45-minute applications required and anyone can use it. Get all the particulars before ordering—write for Free Horse Book that tells you what to use for every kind of blemish that horses have. FLEMING BROS., Chemists, 219 Union Stock Yards, Chicago, Ill.

## KENDALL'S SPAVIN CURE



Fore-Warned Fore-Armed

### Kendall's Spavin Cure

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Dear Sirs:—Please find enclosed a two cent stamp for your "Treatise on the Horse and his Diseases." I have used your Kendall's Spavin Cure for five years and have found it the greatest medicine on earth for what it specifies. Yours truly, GEORGE J. GALWAY

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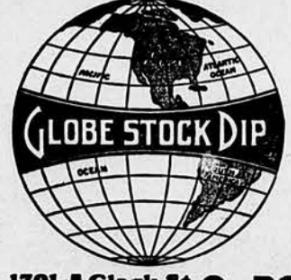
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Yearling heifer—First to Thomson & Sons, on Cherry Lass; second to Nevius, on Victor's Baroness; third to Tomson & Sons, on Thorny Bud; fourth to Thomas Jamison and Mitchell on Waterloo Countess; fifth to Nevius, on Rose Sterne 11th.

Heifer calves—First to Tomson & Sons, on Victoria; second to Agricultural College, on College Mary; third to Nevius, on Duchess of Gloster 4th; fourth to Tomson & Sons, on 5th Elder Lawn Victoria; fifth to Nevius, on Knight's Luster.

Champion bull—Agricultural College, on Ravenswood Admiration.

Champion cow—Tomson & Sons, on Cherry Lass.

Exhibitor's herd—First to Nevius; second to Stodder; third to Green.

Breeder's young herd—First to Thomson & Sons; second to Stodder; third to Green.

Get of sire—First to Tomson & Sons; second to Nevius; third to Tomson & Sons; fourth to Green; fifth to Stodder.

Produce of cow—First to Stodder; second to Green.

**ABERDEEN ANGUS.**

Aged bull—First to Lantz Bros., on Zaire the Great; second to Withers, on Earl's Rosegay.

Bull, two years old—First to Kitchen, on Helmet 3d; second to Lantz, on Monarch's Eric; third to Parrish & Miller, on Japan It.

Yearling bull—First to Kitchen, on Louis of Meadow Brook; second to Lantz, on Captain King; third to Parrish & Miller, on Queen's Gay Lad; fourth to Withers.

Bull calf—First to Parrish & Miller, on a Japan It calf; second and third to Withers.

Aged cow—First to Lantz, on Pride of Willow Lawn; second to Parrish & Miller, on Sunflower Sweet Violet; third to Withers; fourth to Parrish & Miller, on Sunflower Happy 3d.

Heifer, two years old—First to Parrish & Miller, on Rutger Mina 2d; second to Lantz, on Zara 26th; third to Withers.

Yearling heifers—First to Parrish & Miller, on Sunflower Fairy; second to Withers; third to Lantz, on Hester Bloom 2d; fourth and fifth to Withers; sixth to Lantz, on Black Cap Beauty 3d.

Heifer calf—First to Kitchen, on Jewel of Alta 2d; second to Lantz, on Queen Illington; third to Kitchen; fourth to Withers; fifth to Parrish & Miller, on Sunflower Happy It; sixth to Withers.

Champion bull—Awarded to Lantz, on Zaire the Great.

Champion female—Award to Parrish & Miller, on Sunflower Fairy.

Aged herd—First to Lantz.

Young herd—First to Parrish & Miller, on get of Hale Lad; second to Lantz Bros.; third to Withers.

Produce of cow—First to Lantz; second to Parrish & Miller, on produce of Sunflower Hope.

**GALLOWAYS.**

Aged bull, one entry—Award to Croft, on Twilight of Castlemilk.

Bull, two years old, one entry—Award to Croft on Don Carlos.

Yearling bull—First and second to Croft, on Randolph Chief and Randolph Duke; third to Gabrielson.

Bull calf, one entry—Croft, on Buster Brown.

Aged cow—First and second to Croft, on Lady May and Black Princess.

Heifer, two years old—First and second to Croft, on Lady Hutchinson and Miss Midget.

Yearling heifers—First and second to Croft; third to Gabrielson.

Heifer calves—First to Gabrielson; second and third to Croft.

Croft was awarded first (having the only entry) in each of the following: Aged herd, young herd, get of sire and produce of dam.



Every stockman should endeavor to make his own fields produce the proper ration for his animals, whether fed for market or for milk. We know that the animal body contains exactly the same elements as are grown in plant life, and it becomes the business of the scientific feeder to give his animals in feed these same elements, and in the same proportion as they exist in the body of the domestic animal. Wheat, corn, oats, hay, peas, beans, etc., contain every element necessary for the proper development of the animal body, and while these foods are frequently substituted by oil meal and cotton-seed meal, and even condimental stock foods, it should not be done except when the price of these substitutes (nutritive value considered) happens to be lower than those commonly raised on every farm. Knowing that the profit is not based on the amount of food consumed, but the amount digested, the scientific feeder is interested in *increasing digestion*, which, according to the medical colleges and every experimental test, can only be accomplished by medicinal ingredients such as are supplied in

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Steele Bros. won first in every class, first and second in all classes where they had two entries and in the herds they won first, second and third and both champion bull and cow.

**RED POLLED.**

George Groenmiller & Son of Pomona, Kans., were the only exhibitors in Red Polled cattle. The herd was the same as that shown at Topeka and the ribbons were distributed by Judge Kinzer according to the merits of the animals.

**Swine Awards.**

**POLAND-CHINAS.**

Aged boar—First to A. P. Wright, on Prince Proud; second to M. O. Kilmer, on Kansas Chief; third to A. G. Lamb, fourth to C. E. Durand.

Senior yearling boar—First to Wright; second to Wm. McGuire.

Junior yearling boar—First to F. P. McGuire; second to Wm. McGuire.

Senior boar pig—First and second to Wright.

Junior boar pig—First to Lamb; second to Wright.

Sows, two years old and over—First to Lamb; second to Wright.

Senior yearling sow—First to Wright, second to Lamb.

Junior yearling sow—First and second to Wright.

Senior sow pig—First and second to Wright.

Junior sow pig—First to Lamb; second to L. W. Brown.

Best boar, over one year—Wright, on Prince Proud.

Best boar under one year—Lamb.

Best sow over one year—Lamb.

Best sow under one year—Wright.

**BERKSHIRES.**

Aged boar—First to C. W. Henry; second to J. P. Sands & Son.

Senior yearling boar—First to W. R. Sands.

Junior yearling boar—First to W. R. Holt; second to Sands.

Senior boar pig—First and second to Holt.

Junior boar pig—First and second to Henry.

Sow, two years and over—First and second to Holt.

Senior yearling sow—First to Holt; second to Geo. Rummell.

Junior yearling sow—First and second to Holt.

Senior sow pig—First and second to Holt.

Junior sow pig—First to Geo. Rummell; second to Henry.

Best boar over one year—To Holt.

Best boar under one year—To Henry.

Best sow over one year—To Holt.

Best sow under one year—To Holt.

**DUROC-JERSEYS.**

Aged boar—First to T. J. Davis, Hutchinson; second to B. W. Harned.

Senior yearling boar—First to Mr. and Mrs. W. R. Crow; second to Henry Anderson.

Junior yearling boar—First to N. B. Sawyer; second to Crow.

Senior boar pig—First to Harned.

Junior boar pig—First to Anderson; second to J. W. Comes.

Aged sow—First to Crow.

Senior yearling sow—First and second to Harned.

Junior yearling sow—First to Harned; second to Crow.

Senior sow pig—First to Wm. Gillespie; second to Harned.

Junior sow pig—First and second to J. F. Stodder.

Best boar over one year—To Crow.

Best boar under one year—To Harned.

Best sow over one year—To Harned.

Best sow under one year—To Gillespie.

**CHESTER WHITE.**

In the Chester Whites, F. D. Humbert of Nashua, Ia., won first in every class and second in all classes but Senior yearling boar, Junior boar pig and Junior yearling sow.

Best boar and five of his get, all breeds competing—First to Wright, Poland-Chinas; second to Henry, Berkshires; third to Stodder, Durocs.

Best sow and five pigs—First to C. C. Lindamood, Poland-Chinas; second to F. P. McGuire, Poland-Chinas; third to C. W. Freelove, Tamworths.

Best boar and three sows over one year, all breeds—First to Holt, Berkshires; second to Stodder, Durocs.

(Continued on page 996.)

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## The Young Folks

CONDUCTED BY RUTH COWGILL.

### When De Co'n Pone's Hot.

Dey is times in life when nature  
Seems to slip a cog an' go,  
Jes' a-rattlin' down creation  
Lak an ocean's overflow;  
When de worl' jes' stahts a-spinnin'  
Lak a pickaninny's top,  
An' you' cup o' joy is brimmin'  
'Twel it seems about to slop,  
An' you feel jes' lak a racah,  
Dat is trainin' fu' to trot—  
When yo' mammy ses de blessin'  
An' de co'n pone's hot.

When you set down at de table,  
Kind o' weary lak an' sad,  
An' you're jes' a little tlahed,  
An' purhaps a little mad;  
How yo' gloom tu'ns into gladness,  
How yo' joy drives out de doubt  
When de oven do' is opened  
An' de smell comes po' in' out;  
Why, de lectric light o' heaven  
Seems to settle on de spot,  
When yo' mammy ses de blessin'  
An' de co'n pone's hot.

When the cabbage pot is steamin'  
An' the bacon's good an' fat,  
When the chittlin's is a sputter'n'  
So's to show you' what dey's at;  
Take away yo' sody biscuit,  
Take away yo' cake an' pie,  
Fu' de glory time is comin'  
An' it's 'proachin' very nigh,  
An' yo' want to jump an' hollah,  
Do' yo' know you'd bettah not,  
When yo' mammy ses de blessin'  
An' de co'n pone's hot.

I have heerd o' lots o' sermons,  
An' I've heerd o' lots o' prayers;  
An' I've listened to some singin'  
Dat has tuck me up de stairs  
Of de glory land an' set me  
Jes' below de Mahster's tho'ne  
An' have lef' my haht a-singin'  
In a happy aftah tone,  
But dem wu's so sweetly murmured  
Seem to tech de softes' spot,  
When my mammy ses de blessin'  
An' de co'n pone's hot.

—Paul Lawrence Dunbar.

### Seville—Sunny Spain.

ANNA MARIE NELLIS.

While we were on top of the tower we saw the Cardinal coming from the Arch Bishop's palace (just across the street) to the Cathedral; so, of course, all the bells must ring until he was safe and truly inside the grand old church. The noise of those thirty-five bells ringing constantly was somewhat deafening, to be sure; but we "stood it" because it was not every day we could hear big bells, while watching a real live cardinal going from a palace to a Cathedral, and that in old Spain, too.

One of the bell-ringers who interested us much, was an old man of 84 summers, with snow-white beard and hair and he was totally blind; but he had a very patient, sweet face, which indicated that he was an exceedingly good man. He, of course, could not do any of the spectacular ringing, but he rang two of the larger bells, while standing still upon the floor. He stands all day beside those two ropes, and rings his bells just at the proper time. The bells are rung in a certain order, though they do not constitute a "chime," but to the untrained ear, it sounds fully as well. Whenever a certain high-pitched bell rang, I noticed our old man took it as a signal for him to ring his biggest bell.

The large bells are all named, having been duly christened and anointed with holy oil. We became pretty well acquainted with "Santa Marie," "La Gorda," "El Cantor," etc.

The Cathedral itself is a most glorious, gothic structure. I despise figures, sometimes, but the only way I can give an idea of its size, is to give its dimensions. In length it is 380 feet, greatest width 360 feet, total area 124,000 square feet, or nearly three acres. That's a bigger church than any I know in Kansas, I think; anyway, its larger than any in Ellis County. It has a very great number of chapels, all with beautiful, heavy iron bars about twenty feet high in front of them. I wondered why in all old cathedrals the side chapels are so solidly and snugly enclosed, giving the appearance, somewhat, of prison cells, but then they really must be beautiful, or how would they be in such condition?

The treasury of this Cathedral is most exceedingly rich in beautiful jewels, crowns, gold decorations for the many alters, candelabra in gold and jewels, a fore-finger of one of the

Saints, a tooth from another, both encased in gold, and placed in beautiful cabinets. The vestments of the Seville Cathedral are supposed to be as rich, if not richer, than those of St. Peters in Rome. Hundreds of hand-embroidered vestments in gold and silver thread, with beautiful pictures in the center of the back, and deep borders done in many-colored silks, were shown us. Many of the vestments have come down from the fourteenth century. I really wanted one or two of them for an opera cloak, but the good father in attendance smilingly refused my tearful request.

Columbus' tomb is in this Cathedral, and it contains some bones supposed to belong to that gentleman, though I do not know whether he himself lays claim to them or not. You see, he was originally buried somewhere in Cuba; then sometime or other, he removed to Havana; and then five years ago, after the Spaniards had invited Uncle Sam to look after Cuba, they brought Columbus over to Spain, and built him quite a nice tomb here in Seville Cathedral. The monument is a huge sarcophagus, held on the shoulders of four gentlemen whose names I did not learn—not very beautiful or fascinating, but it'll do. Mr. Diego Columbus, a son of Christopher, is also buried here. He seems to have been a gentleman much thought of, around Seville.

Everywhere in Seville one sees traces of the Moors, and Moorish civilization; but Seville is a very live city today, although it can not compare with its zenith in the times of the Moorish occupancy. All the other Spanish cities, former strongholds of the Moors, seem now only "has beens," no activity, no life, merely existence.

Seville is the birthplace of the famous painter, Murillo. He loved the city dearly, and wanted to do whatever was in his power for its benefit, so he died here; but his tomb to-day can not be identified. Many of his most beautiful paintings are in the city; his most famous one (St. Anthony and the Holy Child) hangs in this very Cathedral I am writing about.

Seville is quite gay at night—that is, it is gay for a Spanish town. In the principal streets the cafes, Paris-fashion, have many tables and chairs on the sidewalk in front, where the gentlemen congregate, imbibe cooling and other drinks, and smoke real Havana cigars. I am told that women are rarely, if ever, seen in a Spanish cafe. No reason is given for the fact. It is merely a custom.

The plazas, at night, are full of people chatting, and of children playing until midnight. One evening our party attended an entertainment, called a "grand circus," which was located in a very pretty garden. It was more like our vaudeville performances in America, than Sells' or Barnum's circus. The audience was much more interesting to us than the "acts." Every one seemed to enjoy it greatly, it being so wonderful to them.

No one ever hurries in Spain. We waited once in a street-car for thirty-five minutes for another car to pass; no one became anxious, for they had nothing to do, and might as well wait on a street-car as to be anywhere else.

From gay Seville our party went to Cordova—about five hours distant. There was only one thing of importance to see in this city, and that was the famous mosque, dating from Abur-rhman I, A. D. 784, or from the Hygera, in the year 162. I am not personally acquainted with the gentleman, but he was the king of the Moors who made Cordova famous, like Milwaukee on Lake Michigan; and it came to be, later, the center of European civilization, the successful rival of Bagdad and Damascus, the seat of learning, and repository of the arts, without a single beer saloon or a modern joint. No whiskey, wine or beer was drank by a single person in the whole city, and no assistant attorney general was ever appointed.

But all this grandeur has long since departed, leaving the grand old mosque alone in all its glory. Cordova remains a third-rate provincial city, com-

paratively depopulated and silent, a city of the dead.

The city of Cordova is built, like Seville, with winding, tortuous streets, to keep the hot rays of the sun from burning the feet of pedestrians. The court of the mosque is 430 feet by 230 feet, and has several large fountains, and many beautiful orange trees. When our carriage stopped, we saw before us the chief mosque of the Moore in the middle ages, the largest and most noble monument of the religious Arab architecture, but second in size to the Kaaba at Mecca.

The first impression upon beholding it is that of bewilderment and astonishment produced by the interminable and seemingly confused mazes of pillars; of these there were, formerly, 1,200, but now only 900.

The Moors never had chapels and altars, like the Christians, but prayer niches always facing the east. One prayer nich in the mosque is like a tiny chapel, with the roof a huge shell, formed from a single block of marble and ornamented on the outside with mosaics, sent from Constantinople, and it is said to be the finest mosaic work in the world. One place in the wall is shown, where a captive Christian scratched a crucifix in the stone with his finger nails.

We wandered around several hours among the forest of pillars, no two alike; some marble, granite, porphyry, but were unable to bring a single one away with us.

### Dance of the Slesses of Seville.

CELESTE NELLIS.

We reached Seville in time to see a celebration which can be seen nowhere in the world but in the Seville cathedral—the dance of the choir-boys before the altar, in imitation of the Israelites' dance before their sacred ark.

Some time ago the Catholic church in Spain tried to abolish this custom; but the Sevillians had watched it for so many centuries that they strongly objected, and finally it was agreed that the Pope should decide, and he said he could not pass judgment upon what he had not seen. Then the little choir-boys of Seville were sent to Rome, to perform their dance before the Holy Father, in the Vatican. After that gentleman had enjoyed their little dance, he decided he saw no harm in it, and the Sevillians even unto this day are happy in having this sacred waltz before the largest altar in the famous cathedral on certain great feast days.

People from all over the Christian world journey to Seville to witness this unique sight, and my observation causes me to believe they all enjoy it very much.

On the afternoon that we arrived in the city it was advertised in the papers and announced on the streets, that the dance would occur at 6.30 p. m., but we went to the grand cathedral at 5 o'clock so as to be sure to obtain a good location near the altar.

The Spanish ladies dress in black for church service and wear the lovely black mantillas—in fact a woman can not enter a Catholic cathedral without a covering for her head. The peasants, who enter from the streets, put a handkerchief on their heads or else throw their aprons up over their hair. (1 Corinthians xi:5.)

Some ladies bring their own prayer stools, but the majority of people either sit or kneel on the marble pavement—and sitting on a marble floor for several hours is rather icy employment—but such crowds come to see this dance that it is necessary to go a long while before services begin if one would see correctly, and the floor is better to sit on than to enjoy standing for a long time.

It is, however, in the meantime, very interesting to sit in this glorious cathedral and watch the sunlight shining through the beautifully painted windows—one of which is so arranged that as the sun sets the last rays light up the Madonna, above the high altar, which was afterward lighted by innumerable high candles, making the "retable," which is considered one of the largest and most beautiful in the whole world, shimmering like a mass of gold.

Suddenly the huge bells, each of which has been christened with holy

oil, chime out from the Giralda tower, and the beautiful organ from the choir, whose gigantic pipes have been compared to the columns of Fingal's cave, toned forth magnificently. The cardinal arrives, going first to the choir where he hears mass, then to the high altar, followed by a multitude of priests in beautiful robes, embroidered in gold. The vestments of Seville rank next to Rome in magnificence.

After the cardinal and priests are seated on either side of the altar, the little choir-boys appear, dressed in costumes of the style of Philip III—red and white satin for the Virgin; white silk stockings with white satin slippers and plumed hats. After kneeling at the altar they commenced to chant, accompanied by a large orchestra—first very slowly, then they sung and slowly stepped to a minuet rhythm. Finally the music became very gay, and in true Spanish fashion they danced with castinets clanging, crossing back and forth and forming fancy figures. After repeating the series of dances three times they again kneel and the big organs roll out their tones to join the orchestra, and all the Giralda bells again peal forth their chimes.

The small boys group themselves on either side and the cardinal mounts the high alter steps, his long, red satin train carried by priests, and as he kneels on a gold-embroidered cushion, they let the train, which is many yards long, float down the steps, and the priests kneel below him, and as he bows his head the great mass of people in the huge cathedral all kneel. It surely was one of the most picturesque sights I ever beheld—the high altar dazzling in gold and shimmering in a sea of candle-light, the bowed, gray head of the cardinal, his gorgeous crimson satin robe floating down the steps, the groups of priests in white-and-gold vestments, the choir-boys in their quaint costumes. No stage could be more picturesquely set, and the thundering peals of the organs, bells, and orchestra made it very thrilling, a moment never to be forgotten.

The cardinal arose, and after giving the papal blessing, passed through the cathedral, to his palace across the street, surrounded by crowds of people kissing his robe and those who could get hold of his hand would kneel and kiss it, and also kiss his large ring. As the cardinal disappeared in his palace, the music and bells ceased, the candles were extinguished and again the grand cathedral sank back to its air of solemn mystery, so proud in its rich possession of famous pictures, vestments and treasures.

The most interesting bauble I saw there was a cross of 200 diamonds set in the first virgin gold that Columbus brought from America. In one of the chapels is Murillo's St. Anthony of Padua kneeling with arms extended to receive the Christ-child, who in answer to his prayers is seen descending from heaven amid the beautiful cherubs that Murillo so delighted in painting. The figure of St. Anthony was cut out of the picture, some years ago, and sent to New York, but was promptly returned and very carefully "restored," and now the high, iron grating that encloses this chapel is always kept locked when not in use. One of Murillo's beautiful Madonnas is in another chapel, but the majority of his most beautiful pictures are found in the Seville art gallery, and in the Carida—a hospital founded by Don Juan of Seville.

The story of how Don Juan came to build this hospital is about as follows: One night he was returning from a midnight debauch and he encountered a funeral procession with mutes and torches; he followed, and on hearing the funeral mass, he determined to atone for his sins; and being a very wealthy man, he founded this hospital. To this hospital the redeemed Don Juan retired and died a perfect example of piety. He commanded that he be buried at the church door so that all who passed might tramp on his grave, which by his own direction, bears the epitaph: "Here lies the worst man in the world." He was a great friend of Murillo, and the hospi-

tal possesses some of the masterpieces of that great artist.

After winding through many narrow streets, we found the house in which Murillo lived; it is right against one of the old walls of the city. The house is now owned by a man who is a great art-collector, and he has filled it with pictures, even the walls of the open court, through which one passes in entering the house. The proprietor was very courteous to us and showed us the famous artist's studio, and then with genuine Spanish hospitality he invited us to have tea in the beautiful old garden with his family. The garden was lovely with beautiful rose-trees, and there were very many orange- and lemon-trees laden with beautiful fruit and all was surrounded by a fine box hedge. No wonder that in this charming garden, looking up at the gorgeous sky and through the silver clouds, Murillo should have been inspired to give to the world his beautiful Madonna, floating in the skies, with his marvelous coloring, and the exquisite cherubs who throw roses down from Heaven.

## For the Little Ones

### The Spice-Box.

The Spice-box is a nice box;  
I love to peep within.  
I love to sniff each fragrant whiff  
(Since sniffing is no sin).  
I love to play I'm far away  
In balmy islands sweet,  
Mid spicy trees that woo the breeze,  
With spice-roots 'neath my feet.

This cinnamon once grew upon  
A tree in Borneo;  
The inner bark: how nicely mark!  
They stripped and rolled it—so!  
These fragrant cloves, in Ceylon's groves  
As flower-buds they grew;  
Now, plucked and dried, o'er oceans wide  
They come to me and you.

O ginger hot, you're not forgot!  
I think you're from Jamaica,  
In dusty brown you come to town,  
As sober as a Quaker.  
Stem of a reed you were, indeed,  
Though powder now we view;  
You love to bite, yet not in spite;  
Oh, no! in friendship true.

Cassia and mace must find their place  
(Mace is the nutmeg's sheath),  
And nutmegs grow on trees, you know,  
The tropic skies beneath.  
Sweet allspice next (I find perplexed,  
Its real name in pimento).  
Its powdered seeds fulfill our needs,  
With aromatic scent, oh!

Yes, the Spice-box is a nice box!  
I find it quite bewitchin'.  
All earth, you see, sends gifts to me,  
Right here in Mother's kitchen.  
Then let me learn, and wisely turn  
To use each pungent spice;  
This very minute I'll begin it,  
Make Mother something nice!  
—Laura E. Richards, in More Five Minute Stories.

### The Green Cap—a Fairy Story.

BY ABBIE FARWELL BROWN.  
(Continued from last week.)

The daylight dimmed and the night came on, and the old woman sat rocking herself to and fro, trying to forget how hungry she was. But presently the door burst open and in came the monkey, staggering with arms full of fagots for the fire. It made a bright blaze on the hearth and then came timidly up to the old woman and laid a hand upon her knee. This time the old woman did not shrink or cry out. "Ugh! Go away!" For she seemed no longer to hate monkeys as once she had done. She looked up with half a smile and said:

"Ah, you have come back, little guest! I thought you had deserted me. I know you think it is supper time; but nay, there will be no supper to-night. There is naught in the world for us to eat, or I would gladly share it with so willing a helper."

But the monkey shook its head and drew the old woman gently by the skirts towards the door.

"There is no use in going to the well," said the old woman; "it is quite dry." But the monkey continued to pull her dress, and at last the old woman rose, shaking her head because she knew that the quest was useless. The two went out to the well, and the monkey let down the bucket. When it came up the old woman thrust in the dipper, and lo! she brought it out full once more with clear, cool, sparkling water.

"Bless my stars!" she cried in astonishment,

"there is witchcraft here," and she looked at the monkey suspiciously. But the little creature only grinned.

Once more it pulled at her skirts, as though it would lead her back to the house. Wondering, the old woman followed, dipper in hand. The monkey led her straight to where the rice-bucket stood on the shelf. The old woman shook her head hopelessly as she took down the bucket, because she knew that it was as empty as a last year's bird's nest. But when she drew off the cover she nearly dropped it with surprise. There was still a handful of rice in the bottom of the bucket.

"Bless my stars!" cried the old woman, and she looked again at the monkey. But the monkey only grinned and pointed towards the teapot.

"That at least I know to be empty," said the old woman positively, "for I squeezed out the last drop with my own hand." But what was her amazement when she tilted the spout and out came an amber drop of comfort.

"Bless my stars!" again cried the old woman. "Here is really enough for another meal. Witchcraft or no, you have certainly brought me good luck, little guest, and though we may die of hunger to-morrow we should greatly rejoice now, for we thought to be dead, even this same day."

So that night passed, and another and still others. Every morning, as at first, the monkey prepared breakfast for the little old woman ere she was awake. And still there remained a dipperful of water in the well, a handful of rice in the bucket and a drop of tea in the teapot. Every night the old woman found the same for their supper.

She was growing very fond of this queer little creature who helped her so heartily, and she wondered how she could ever have disliked monkey-folk. She even forgot that she had once thought her guest ugly, for the little face seemed indeed to have changed and to have become more human. The old woman had made for the monkey a pretty little dress of green to match the green cap which she ever wore upon her head. The long tail which once she had used as an extra strong hand had shrunk away and disappeared beneath the pretty dress—perhaps it was gone altogether—for the monkey was certainly changing in many ways, though the poor old woman was too weak-eyed to see how greatly this was so.

Now the weeks passed and the months passed, and it was exactly a year and a day from the time when the monkey had first appeared. On that morning the old woman woke up and saw as usual the little green figure fitting about the cottage, making things neat and tidy and preparing the tiny breakfast which was always the same—scanty and simple, but sufficient for the two, with kindness and good feeling to eke it out. This morning when the old woman was ready to get up, the busy little creature came skipping up to the cot. And as she stood looking down, smiling kindly, the old woman suddenly blinked and rubbed her eyes.

"Bless my stars!" she cried. "How big you are! How pretty you have grown! What! Who is this? You are not my little monkey, you are a pretty girl smiling at me."

"Good morning, Mother," said a sweet voice. "I am your little guest. I am the same poor little creature whom you took in out of kindness and whom you have allowed to dwell with you this long year, sharing your scanty store. I owe you more than words can say."

"Words!" cried the old woman, "and how long since a monkey could use words?" She sat staring wildly.

"You see I am really the same," said the pretty girl. "I still wear the green dress which you made for me and the green cap which I had upon my head when I came to you. In that green cap lies my secret. I am a Fairy, Mother."

Then she told the old woman a strange story; how for some naughti-

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ness the Fairy Queen had punished her by giving her that ugly monkey-shape which she must wear for a year and a day. But at the end of that time she could take her own shape and go back to Fairyland. And now the time had come.

"But you have been so kind to me, dear Mother, that I may give you one wish before I go back to my beautiful home," said the Fairy maiden.

Then the old woman burst into tears and flung her arms around the neck of her little guest. "O, do not leave me, kind Fairy-child," she said. "I love you very dearly, and how shall I live you very dearly, and how shall I live without you? I loved you when I thought you were only a little monkey, but now I love you a thousand times more."

Gently the Fairy kissed her and said:

"Now hear what the gift is that I may give you. I may give you one wish of three, and you shall choose between them. You shared your simple food with a poor little animal-guest. Now for the first wish: would you live always on princely fare? If you so choose you may have more than you need to eat. You may have meats and fruit, fine wheaten bread and choice sweets such as are set upon palace tables. You may have everything that a dainty palate could desire, and every day a different feast of goodies. This you may choose, if you so will. Or, if you think the second choice a better one, you may become young again as I am now, for I am a picture of your lost youth which you have forgotten. You may have health and strength and appetite to enjoy life and the hearty meals which you will be able to earn. That is a goodly gift, is it not?"

The old woman nodded, but still her eyes were unsatisfied.

"Then there is the third choice," said the Fairy, and her voice was very soft. "But that one it seems selfish for me to name, because it is a wish for my happiness."

"What is the third wish?" asked the old woman, eagerly.

"You may wish, if you choose—and the wish will be granted by the Fairy Queen—that all may remain as it now is; you will be what you are, a dear old woman living in this little hut, with your little well in which there shall ever be one dipperful of water, no more; with your little bucket in which there will ever be one handful of rice, no more; with your little teapot in which there will ever be one drop of tea, no more. It is scanty fare for one, Mother, yet withal, if you would have one to share it, I will do so still, as I have done so long. I will become your child—no longer a Fairy-child, but your little human girl child, such as I seem now. I will live with you always; love you and take care of you always and share your scanty portion."

The old woman gave a cry of joy. "But do you wish it?" she said. "Would you not rather go back to your beautiful Fairyland, where you can be happy and care-free always?"

"Nay, dear Mother," said the Fairy; if the choice were mine I would rather remain here with you than anywhere in the whole wide world, for I have been very happy here and I have learned many things. I do not want to go back to Fairyland to be an idle, careless, selfish Fairy. I would rather be a human child and share my mother's joys and sorrows. "Dear Mother, will you have it so?"

"Yes, I will have it so!" cried the old woman, joyfully.

"Think," said the Fairy, lifting a warning finger, "think of the fine feasts and the dainties you might have. Think of the youth and strength. Would you give up all this for only me—who must share half the refreshment from your well, your bucket and your teapot?"

"That is enough," said the old woman. "What do we need more? We can still offer a sup to any poor stranger who may come as you came to my door. O, dear child, if you will stay with me, that is all I ask!"

"Well, then, let us sit down and have breakfast," said the dear little girl, tossing her green cap into the fire. "Now I am a Fairy no longer, but your very own little girl-child. And here is a dipper of water—the only one left in the well. Here is a dish of rice—I used the last handful from the bucket. Here is just a tiny drop of tea in the teapot. O, Mother, I am so glad!"

So they sat down to their frugal meal, and they laughed and they laughed and they laughed, they were so happy.—Congregationalist and Christian World.

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Whose deeds, both great and small,  
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Where love ennobles all.  
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no bells;  
The Book of Life the shining record tells.  
Thy love shall chant its own beatitudes  
After its own life working. A child's kiss  
Set on thy singing lips shall make thee  
glad;  
A poor man helped by thee shall make  
thee rich;  
A sick man helped by thee shall make  
thee strong;  
Thou shalt be served thyself by every  
sense  
Of service that thou renderest.  
—Elizabeth Barrett Browning.

### The Pale Blue Cashmere Gown—A Story of the Frontier.

BY SARAH S. PRATT.

The Reverend John Lawrence sat at his study table leaning on his elbow, his usually busy pen held idly between his fingers. He gazed far over the plains, a trancelike expression in his thoughtful eyes; he believed that the time was coming when those plains would be peopled, and with the hopefulness which made his missionary life beautiful, he seemed to see the Church leading, inspiring and ministering to these people. Already he had visions of a school wherein his own wife should be the ruling spirit; visions of a hospital, a guild house and club-rooms, where these savages might grow less savage. Even the fact that thus far only one poor little wooden church building was to be found in many miles did not in the least interfere with his dreams.

How long he might have dreamed no one knows, but he was recalled by a delicious voice calling in to him:

"I am 22 inches around the waist, John, and my skirt length is 43. You know you asked me yesterday.

"Sure enough," he answered with a little start, taking up the tape-line which lay conspicuously on his desk. "I must get that letter off to-day; but I'd better measure you myself. You probably measured with a string. That's the feminine way, I believe."

His wife came in, feather-duster in hand, and as he drew the line about her waist, he dropped a kiss upon her forehead.

"I hope they will send you something pretty." Mrs. Lawrence burst into laughter.

"The idea of anything pretty in a missionary box, John! Who ever heard of it? It's against the nature of things. Perhaps it is wicked, but I have sometimes thought that they made them as ugly as possible. Do you remember the snuff-colored dressing jacket with the black fringe?"

"Wasn't that pretty?" he queried. "I always thought it was very elegant, except when the fringe dipped in the coffee."

"You dear dreamer! You don't know what is pretty. You don't see anything but your beloved Sunday-School and night classes and sick people. A rheumatic old Indian woman is beautiful to you!"

"If she is a Christian! Yes I admit it," he said, gently; "all of God's creatures are beautiful to me, and one of them most beautiful," and again he gave her a loving caress and resumed his work.

"Sheets, pillow cases, street-suit for my wife, clerical suit for self, overcoat—I hate to ask for that, but it is such a necessity in this bleak land."

He read once again the friendly letter, in which he had been urged to make known all his needs, assuring him that they would be supplied, so far as possible, by a branch of the Woman's Auxiliary.

These boxes, which had so irked the pride of many a missionary, never offended John Lawrence. He gave little thought to self. His Divine Master had lived on alms, and his own horizon was too rich, too broad, for any petty egotism to create even a speck upon it; but he sometimes reflected with regret, his wife keenly disliked

this phase of missionary life. He could not forget, at times, that he had taken her from a luxurious home; but had he not given her a greater opportunity to do God's work and was she not doing it sweetly and uncomplainingly? He would try to believe that she did not care.

In the meantime, Mrs. Lawrence was dusting the sitting-room, and she had come to a standstill before a little ivory miniature of herself, the price of which would almost have paid for everything in their modest home. It was made ten years before, when she had just finished school and was archly charming in that dainty gown. How becoming it was, and how much he had admired her in it!

"Alice, is there anything else you want? We are to mention everything we need, and they will supply us as far as possible."

"Yes," she called a little sarcastically, "please tell me I need very much a pale-blue cashmere gown;" and then she smiled at the absurdity of such a request from a missionary's wife. "Imagine the consternation that would create," she thought, "if he really would ask for such a thing!"

She replaced the miniature with a sigh. Was it a crime to love pretty things? And would she ever have any again? Her trousseau was long ago exhausted, and now she lived and moved and had her being in black things and brown things, and all things that wouldn't show dirt. Oh, dear! but—blessed afterthought!—wouldn't she rather be the wife of John Lawrence, in black brilliantines and brown serges, than anybody else in the world?

The president of St. Mary's Auxiliary was rapping loudly for order. She was reading a letter saying that the Rev. John Lawrence would be deeply grateful for a suit, an overcoat, etc. It was when she came to the overcoat that the confusion arose; for one lady had a practically new overcoat, which her present coachman, being stout, could not wear. It was exactly the Rev. Mr. Lawrence's size, but being a surtout, she questioned whether it would be the correct thing for clerical wear. The entire auxiliary set itself to argue this point, when the president stopped them.

"Ladies we can discuss this matter later. Let me finish reading this letter. Where was I? 'Sheets, pillow cases, table linen, and—what is this?—a pale-blue cashmere gown!'"

A pale blue cashmere gown! Had she asked for an automobile coat the request could not have produced more surprise. There was a deep silence. Even the president found nothing to say for some time.

"A little unusual," she finally said. "Well I never had a pale-blue cashmere gown in my life," gasped some one.

"Pale-blue! So perishable! said another, feebly.

"And cashmere! So out of style!" a third added.

"She must be some poor little country soul," the secretary said.

"Well, whoever she is, she ought to be reprimanded. The idea of such worldliness in a missionary's wife!"

"He should have known better than to have asked for it."

"The idea of our money going for a pale-blue cashmere gown."

So the comments went around, till everybody had had her say; some of them had had two or three "says," and they were seemingly gasping for breath to say something even more severe, when a bombshell fell in their midst:

"Why shouldn't she have a pale-blue cashmere gown? She is probably a young woman, and maybe has not a single pretty thing! Oh, gracious!" and the speaker grew so energetic that she arose and stood facing them, her face rosy with excitement. "I have helped with box after box in this society, and never have I seen a really pretty thing go into one of them! They are so deadly practical. How it will wear, how it will wash, whether it will show dirt—I sympathize with this woman away out there among those Indians, dependent on us hard-hearted things for the little she wants. God

knows," she added, even more earnestly, "where they get the grace to sustain them in their work. 'As for this gown'—her voice trembled a little—"let us give it to her. Cashmere is cheap, and just imagine her pleasure; and do you know I think a pretty gown would have a cheerful effect on both herself and her husband. Perhaps it might even convert a few more Indians!" She sat down, a little embarrassed by the feeling she had shown.

"We might make her a mother-hubbard, if you are so bent on it," some one said, doubtfully. "Made up plainly, it would not cost much."

"But it musn't be a mother-hubbard. I wouldn't doom even a woman living among the Indians to that! If we send it at all, let it be pretty. Let us put our hearts into it and make it a beautiful surprise for her. She will probably expect something ugly, if she expects it at all."

"I don't know why we should discriminate this way in favor of Mrs. John Lawrence. We have never done it before." A severe voice threw a damper on the proceedings.

"Mrs. John Lawrence," echoed another; "pray let me see that letter. Mrs. John Lawrence was an honor student in my class at college in 1890, and I believe I am safe in saying that there is no one here who could surpass her in either intellect or beauty. I remember now that she married a missionary enthusiast and went out to those wilds cheerfully." The speaker crossed the room rapidly and approached the advocate of the blue gown.

"I will gladly help you with the gown, and we will make it as beautiful as a dream."

How quickly the idea became infectious. Everybody offered to do something or to give something. It was almost as delightful as dressing a doll!

St. Mary's Auxiliary had turned out many a box, but never had anything aroused such interest as this new bit of work. It became a fad; with its silken linings, its dainty frills of lace, its "fagotting" and exquisite accessories, the beautiful Empire gown lay complete. The Auxiliary women who were packing the box stopped frequently to admire and almost caress it.

"I hate to see it go," said the secretary.

"It has done us more good than anything we ever did. What a lovely idea it was!" the treasurer said. "I don't begrudge the money at all."

"Let me fasten this in." Some one bent over the gown and tacked in a little sachet of violet.

"And I must slip this handkerchief into its bosom;" another deftly tucked an embroidered kerchief into its folds.

"I have written this note to my dear old friend, and have told her what a pleasure this has been;" and the note, too, was pinned to the blue gown. And so, with little final adjustments, and pats of admiration, the blue gown, soft and rustling and enveloped in white tissue paper, was put into its individual box, and shipped away, with more practical things, to the land of the Indians and the plains.

Mrs. Lawrence came home somewhat discouraged from her sewing-school one afternoon, to find her house in great disorder. Everything was covered with clothes, it seemed. The box had come, and her husband had lost no time in opening it. The street suit for which she had asked confronted her from the bookcase, dark, neat and serviceable. She examined it with enthusiasm. "They were so good, were they not, John?"

"Good! My dear, the Auxiliary is always good. Now, don't say anything about your brown sack with the black fringe! The Auxiliary—well, you know what I think of it! See! They have sent us everything, even to the last thing on the list—your blue cashmere gown!" He handed her the box.

"My pale-blue cashmere gown! John Lawrence! You didn't really write that, did you? Oh, what must they have thought?" She sank into a chair pale and distressed.

"I think the dress tells what they thought." He lifted the delicate garment as if it were a baby.

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"Silk! Lace! Perfume! A train! John, I can't believe it is mine! And I can't help crying! I didn't mean it. I said it in a half-joking, half-cynical way, never thinking you would ask for it. I wouldn't have dared ask for it, and see how they have repaid me for my unfaith! Everything is so beautiful, so dainty! There's so much love in it, John! That's what touches me. It means the love of women, who saw in me only a servant of God. When you write, tell them this means more to me than anything that ever happened."

Late that night she sat with her old friend's note. She had written a long, heart-full letter. She turned to her husband with moist eyes:

"I don't believe I ever told you before, John, but it is very sweet to be a missionary's wife!"—The Living Church.

### Some Points About the Kansas State Agricultural College.

The opening day at the Kansas State Agricultural College, at Manhattan, is Wednesday, September 20. Examinations for admission occur at 9 a. m. Admission to those over fourteen is by Kansas teacher's certificate, county diploma, grammar-grade certificate, or by accredited grade school and city or county high-school diploma, also by passing satisfactory examination in the common-school branches. The short course in domestic science will begin October 3. The fall term will close December 22.

The printing department at the Agricultural College, which has for years been handicapped by worn-out and out-of-date material, has secured sufficient funds to replace entirely its composing-room equipment with mod-

ern type in substantial cabinets. Upwards of \$1,000 was used. As the college has grown, so has this department kept pace with it. About \$2,000 are annually expended for paper stock. During August \$300 were used for this purpose. The demands upon this important adjunct to the college far exceed even its present limited facilities. Three stated publications are printed here, two being 16-page weeklies, one a 32-page monthly, besides a multitude of letter-heads, envelopes, bulletins, blanks, programs, outlines, etc. Some of the latter number over one hundred pages. The large majority of the work is done by the students during class time, so that much of the work is furnished the college and its organizations at a minimum, and always at cost.

A new building for this department has long been needed.

The annual report of the agricultural department, under Prof. A. M. TenEyck, has recently been submitted to the board of regents.

This department has shown the most substantial growth of any since the present administration has been in power at the college. It was formerly known as the farm department, but in September, 1902, the work became so large that the department was divided into the agricultural department and the animal husbandry department, each with a separate head. The latter has again been divided into the animal husbandry department and the dairy and animal industry department.

Professor TenEyck took charge of the agricultural department on December 1, 1902. He found that previous professors had devoted their energies largely to stock, while the soil and crop work was undeveloped. During that year the department had the use of two rooms, one for an office, the other for a classroom; also a seed-room in the barn, but no seeds; a shed for machinery, with a few old and useless tools, but no farm machinery, no horses. In the office was a desk, a book-case, a dictionary; and there was but a small appropriation. Now the department has three miles of woven-wire fence around the fields; drains and culverts to prevent washing; graded roads; grassy lanes and alleys; systematically platted fields, containing 335 acres, 184 of which are owned by the college; ample farm machinery, much of which has been donated by various firms; three good farm teams; a whole building devoted to soil and crop work; and two regular assistants, a farm foreman, two stenographers, six student assistants, besides eight other employees.

During three years past the department of agriculture has expended \$18,074.08, over half of which was income from the farm from the sale of surplus crops and seed grain. It has farm buildings and equipment at present valued at \$8,816.13, but which cost originally far more. This does not include the value of the agricultural hall.

Assistant V. M. Shoemith carries on extensive experimental work in crop production, in variety tests of winter grain and spring crops; in co-operative tests on the farms of fourteen Kansas farmers in various parts of the State; in crop rotation experiments; in date of planting experiments, to show the best time to plant and the time after which it is impracticable; in experiments with fertilizers, sod crops, renewing brome-grass, alfalfa, and clover; in inoculation of legumes; in cultivation and preparation of seed-bed for corn; in experiments with late forage crops, and plant-breeding and seed selection.

Assistant C. H. Kyle has charge of the soil-moisture studies as to methods of corn cultivation and the different methods of preparing the seed-bed, and their effect; the comparative moisture studies in grain, corn, and sod lands, studying moisture movements in the soil, and the conservation of moisture in stubble ground. His work includes soil temperature and root studies, and the moisture in forage- and grain-crop studies.

The students have an active part in both the work and the results of these

experiments. The percentage of agricultural students graduated increases every year.

The agricultural department carries on an extensive correspondence with the farmers of the State in answering questions relative to seed, to fall plowing, grasses and other crops, soil culture, and all kinds of general farm questions. During the summer the letters answered have averaged nearly twenty-four per day, keeping one stenographer more than busy. Aside from answering these letters, copies are made for the agricultural papers of the State. One of these, for August 31, had ten columns from this department.

Professor TenEyck is in the front rank of agricultural experimentors. The college, through his department, is doing a great work for the farmers of the State. The other departments branching off from this are equally vigorous and useful.

Prof. J. T. Willard, head of the chemistry department and director of the Experiment Station of Kansas, sailed September 8, from Dover, England, for the United States. The Professor has spent the summer in Germany, Belgium, the Netherlands, Switzerland, and England, where he visited the great universities of Gureich, Munich, Heidelberg, and others; also many of the European experiment stations, laboratories, manufacturing of chemical apparatus and chemicals. He has spent much time looking into their methods of experimentation and investigation, gleaned ideas which he expects to apply in the betterment of his work at the college.

**Club Department**

**OFFICERS OF THE STATE FEDERATION OF WOMEN'S CLUBS.**

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

**Our Club Roll.**

- Mutual Improvement Club, Carbondale, Osage County (1898)
- Give and Get Good Club, Berryton, Shawnee County (1903)
- Women's Literary Club, Osborn, Osborn County (1903)
- Women's Club, Logan, Phillips County (1902)
- Domestic Science Club, Osage, Osage County (1903)
- Ladies' Crescent Club, Tully, Rawlins County (1903)
- Ladies' Social Society No. 1, Minneapolis, Ottawa County (1898)
- Chalisco Club, Highland Park, Shawnee County (1902)
- Cultus Club, Phillipsburg, Phillips County (1902)
- Literature Club, Ford, Ford County (1903)
- Sabeau Club, Mission Center, Shawnee County, Route 2, (1899)
- Star Valley Women's Club, Iola, Allen County (1902)
- West Side Forestry Club, Topeka, Shawnee County, Route 8, (1903)
- Fortnight Club, Grant Township, Reno County (1903)
- Progressive Society, Rosalia, Butler County (1903)
- Pleasant Hour Club, Wakarusa Township, Douglas County (1899)
- The Lady Farmers' Institute, Marysville, Marshall County (1903)
- Women's Country Club, Anthony, Harper County
- Taka Embroidery Club, Madison, Greenwood County (1903)
- Mutual Improvement Club, Vermillion, Marshall County (1903)
- Friends Reading Club, Cawker City, Mitchell County (1903)
- Cosmos Club, Russel, Kans.

[All communications for the Club Department should be directed to Miss Ruth Cowgill, Editor Club Department.]

**ART STUDY PROGRAM.**

- John Everett Millais.
- Roll Call—Current art authors.
- I. Millais' pictures of children.
- II. Millais and his models.
- III. Reading "On the Death of Millais."
- IV. Mothers of great men.
- I. An interesting part of the first paper will be a comparison of his work with that of the two other artists already studied, Landseer and Reynolds, both of whom painted children charmingly.
- II. The models from whom artists paint their great pictures are interesting both for themselves and for the pictures for which they pose. The "Great Artist Series" tells some very interesting things about Millais' models.
- III. The poem which appeared in Puck, a famous English humorous paper, is quoted in the little book just referred to, and is good to read as a part of this program.
- IV. Millais is not the only famous



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The best mourning prints  
Intense, fadeless color on  
cloth of enduring quality.  
Ask your dealer for Simpson-Eddystone Blacks.  
Three generations of Simpson's have made Simpson's Prints.

The Eddystone Mfg Co. (Sole Makers) Philadelphia

## A KALAMAZOO DIRECT TO YOU

**At Lowest Factory Prices.**

We will sell you, freight prepaid, direct from our factory any Kalamazoo Stove or Range on a **360 Days Approval Test.**




We guarantee, under a \$20,000 bank bond, that there is no better stove or range made, and we save you from \$5 to \$40 on every purchase, because we save you all middlemen's, jobbers' and dealers' profits. We're manufacturers, not "mail-order dealers;" we own and operate one of the largest and best equipped stove factories in the world; we guarantee the high quality of our product and ship on trial.

**SEND A POSTAL CARD FOR CATALOGUE No. 189.** Examine our complete line of ranges, stoves and heaters, note the high quality and low price and save from 20% to 40%. All Kalamazoo are shipped **Freight Prepaid**, blacked, polished and ready for use. All our cook stoves and ranges are equipped with patent Oven Thermometer which makes baking easy.

**KALAMAZOO STOVE CO., Manufacturers, KALAMAZOO, MICH.**

*We probably can refer you to pleased customers in your own neighborhood.*

## STOVES AND RANGES

### LOWEST FACTORY PRICES

This is the best range that money can buy—we KNOW it, so will YOU after you have examined and used it in your own home. We do not ask you to send us one cent. We want you to let us ship you this range on

## 30 Days Free Trial

Set it up in your own home and put it to EVERY POSSIBLE TEST for 30 days. Test it for economy in retaining heat, for soundness and durability; for quick, reliable cooking, roasting and baking; test it in ANY WAY YOU CHOOSE to convince yourself that it is just as represented and that we can save you from \$5 to \$50 on your purchase and give you better goods than you can obtain anywhere else. We have our own big factory for supplying our ever increasing trade. Every stove and range which we manufacture is not only sent on 30 days free trial anywhere in America but is

## GUARANTEED FOR FIVE YEARS

Save the profits of jobber, dealer and agent by buying DIRECT FROM MANUFACTURERS. Write for our large catalogue and complete information regarding our 30 days free trial offer. Wait until you have had our liberal plan before buying a stove or range of any kind.

923 Liberty St.,  
**KANSAS CITY, MO.**

## Kemper-Paxton Mercantile Co.

**\$9.95** for this large handsome steel range

without high closet or reservoir. With high warming closet and reservoir, just as shown in cut, \$12.95. Reservoir is porcelain lined. Heavy cast top with 6 full size cooking holes. Large oven, regular 8-18 size. The body is made of cold rolled steel, top and all castings of best pig iron. Grates we use improved duplex grate, burns wood or coal. Nickel band on front of main top; brackets and tea shelves on closet; band and ornament on reservoir oven door, etc. Highly polished, making the range an ornament in any home.

**\$2.95** for this Oak Heater

just as illustrated. Burns hard or soft coal or wood. Has drawn center, grate, corrugated fire pot, cold rolled sheet steel body, heavy cast base, large cast feed door, ash pit door and ash pan, swing top, screw draft-regulator. Polished urn, nickel top ring, name plate, foot rails, etc.

We have heating stoves of every kind. Hot blast, air tight, the kind that retails for \$3.00, for \$0.00. Base burners at 1/2 the regular price.

**OUR TERMS**

are the most liberal ever made. We will ship you any range or stove, guarantee it to be perfect in construction and material; we guarantee it to reach you in perfect condition. You can pay for it after you receive it. You can take it into your own home and use it 30 full days. If you do not find it exactly as represented and perfectly satisfactory in every way, the biggest bargain in a stove you ever saw or heard of, equal to stoves that retail for double our price, you can return it to us and we will pay freight both ways, so you won't be out one single cent.

**CUT THIS AD OUT,** send it to us and we will mail you our free Stove Catalog. Shows over 80 styles stoves and all you get our large Stove catalog for 1908 and 1909 and see our liberal terms and lowest prices ever made.

**MARVIN SMITH CO. CHICAGO.**

## WEIGH YOUR PRODUCTS




**U. S. Standard GUARANTEED 30 DAYS' FREE TRIAL**

**PROTECT YOURSELF AGAINST LOSS BY INCORRECT WEIGHTS**

As a protection against loss by incorrect weight, every farmer should have a U. S. Reliable (pat) or Imperial (patents) Scales. Guaranteed to be absolutely correct and the equal of any scale on the market, no matter what price. Each scale is GUARANTEED FOR FIVE YEARS. We have the only ball-bearing scale on the market; has interchangeable parts, full compound brass beam; perfect in every detail of construction. Write for full description.

**CATALOGUE FREE**

**Kemper-Paxton Mercantile Co.**

**923 Liberty Street, KANSAS CITY, - MO.**

## SPECIAL OFFER

features and points of superiority found only in the **SIMPLEST OREAM SEPARATOR** the **LOW DOWN DAVIS**, with the simple three piece bowl, gearing and a low down supply tank, so constructed that there is no splashing or pilling of milk when filling. All the result of **TWENTY YEARS** experience in separator making and the thought of the Nine Davis Brothers, and a dozen other good points not found on other machines, with a photo of all, explained in our Dairy book. Send today for book 125 and our special introductory offer.

**DAVIS OREAM SEPARATOR CO. 56-60 N. Clinton St. CHICAGO, ILL.**

# Compare the Evidence.



The best way to be convinced of the value of AMATITE Ready Roofing without actual trial, is to send for a sample (which we gladly furnish free of charge). At the same time get samples of all the other ready roofings that you see advertised. Then compare the evidence.

Right at the beginning you will see this difference—AMATITE relies on pitch to resist the penetration of water. Observe, in the accompanying diagram of an AMATITE cross-section,



the two layers of pitch (composition). Some of the other manufacturers say nothing about what they use. They leave you to guess what their roofing is made of. If they told, you probably wouldn't use the stuff at any price.

Some manufacturers use Trinidad Asphalt.

Trinidad Asphalt actually disintegrates under the action of water.

But pitch is not soluble in water. Even stone dissolves in water, but pitch won't. It has been used wherever water was to be resisted, for years. Water is absolutely powerless against it. All large and important buildings are now-a-days water-proofed with pitch. Don't therefore, select your roofing by the looks of a sample that has never been exposed to the



Amatite on a Small Factory

weather. Find out what it is made of, whether its materials are the kind that really resist water. Then you will select AMATITE, the only ready-roofing that's full of Pitch.

Other reasons why AMATITE Roofing is superior to any other Ready Roofing in the market are the facts that it has a mineral surface—which never has to be coated or painted; that it is low in price, easy to lay and absolutely wind, water, and weather-proof.

Our Booklet, "How is Your Roof?" which we send with the Sample, free for the asking, is a most interesting treatise on Ready Roofing. Write to the nearest office and it will be sent you at once. Barrett Manufacturing Company, New York, Chicago, Philadelphia, St. Louis, Cincinnati, Cleveland, Kansas City, New Orleans, Allegheny or Minneapolis.

man whose mother was his guide and inspiration. This topic can be made most interesting and inspiring.

## KANSAS CORN-BREEDERS' CONTEST.

(Continued from page 979.)

the Agricultural College and the addresses will be of great value to the students, and since the college will be brought to the attention of a large number of prominent farmers who will attend, the college authorities will doubtless contribute as much as they may to the success of the meeting. Prominent speakers on the various branches of corn-breeding, corn culture, etc., will be secured.

A feature of the meeting will be the corn-growing contests for which prizes have been provided as follows:

### CLASS E.—FOR THE BEST TEN EARS OF YELLOW CORN.

First prize, Plano mower, donated by the International Harvester Company, Chicago, Ill.

Second prize, Kingman "No Tip" cultivator, donated by Kingman-Moore Implement Company, Kansas City, Mo.

Third prize, two-by-six-foot galvanized steel stock-tank, donated by the Demster Mill Manufacturing Company, Beatrice, Neb.

### CLASS F.—FOR THE BEST TEN EARS OF WHITE CORN.

First prize, Black Hawk planter, donated by the D. M. Sechler Carriage Company, Moline, Ill.

Second prize, Emerson No. 26 cultivator, donated by the Emerson-Newton Company, Kansas City, Mo.

Third prize, Acme harrow, donated by Duane H. Nashe, Millington, N. J.

### CLASS G.—FOR THE BEST TEN EARS OF CORN, ANY OTHER VARIETY.

First prize, Demster 2-row cultivator.

Second prize, ———

Third prize, ———

It has not yet been determined what the other prizes in this class shall be, but they will doubtless be of equal value to those of classes E and F.

### CLASS H.—FOR THE LARGEST YIELD OF CORN, ANY VARIETY.

First prize, Tricycle lister, donated by the Rock Island Plow Company, Rock Island, Ill.

Second prize, six bushels Hildreth corn or \$15 cash, donated by C. E. Hildreth, Altamont, Kans.

#### CONDITIONS.

1. All samples of corn exhibited for prizes shall become the property of the farm department of the Kansas State Agricultural College.

2. No exhibitor shall make more than one entry in any class.

3. The corn exhibited in Classes E, F, and G must have been grown by the exhibitor in 1905.

4. All entries for Classes E, F, and G must be made by a certain date in the winter of 1905-06, as shall be determined by the farm department.

5. All entries in Class H shall be made by September 1, 1905. The yield of corn shall be determined by a measured acre of land, and one bushel of ears which shall be a fair sample of the corn produced on the acre shall be sent to the farm department of the Kansas State Agricultural College, together with the weight as determined on the same day as the remainder of the corn is weighed. All the above measurements, weights, etc., shall be made by some competent person appointed by the farm department of the agricultural college, with the assistance of the owner of the corn, both of whom shall make affidavit that all measurements, weights, and everything connecting them with the contest is fair and according to the rules of the contest, to the best of their knowledge and belief. The farm department shall make determinations of the percentage of moisture in all samples sent in, and all yields shall be figured to an equivalent yield containing 15 per cent of moisture, as representing air-dry corn.

6. Each contestant in class H shall furnish a written statement of the kind of soil upon which his corn was grown, kinds and amounts of fertil-

izers and manures used, methods of planting and cultivation, and other data which may be of general interest.

Twenty entries have been made for the yield contest.

### Oakwood Farm Poland-China Sale.

The second of the series of dispersion sales being held by the Oakwood Farm and Stock Company at Mastin, Kans., was not as well attended as the first on account of the floods and consequently the offering did not sell for as much as it would have had conditions been different. As it was, there were several of the choice animals that sold at special bargain prices, although in the main the prices were very satisfactory.

Those selling for \$30, or over, went to buyers as follows.

No.	Name	Price.
1	To T. A. and W. S. Goodrich, Tus-combla, Mo.	\$325.00
2	To T. A. and W. S. Goodrich, Tus-combla, Mo.	340.00
3	To T. A. and W. S. Goodrich, Tus-combla, Mo.	325.00
4	To Courter, Winfield, Ia.	105.00
5	To B. H. Colbert, Tishomingo, I. T.	150.00
6	To G. E. Leslie, Memphis, Mo.	80.00
7	To J. Walter Garvey, Jetmore, Kans.	70.00
8	To Alex. Daub, Fairfield, Ia.	30.00
9	To C. S. Davidson, St. John, Kans.	125.00
10	To W. C. Welch, Harveysburg, O.	110.00
11	To Dr. T. B. Spaulding, Decatur, Ill.	30.00
12	To T. A. and W. S. Goodrich	110.00
13	To T. A. and W. S. Goodrich	60.00
14	To S. P. Childs, Fairfield, Ia.	60.00
15	To A. E. Cook, Oderbolt, Ia.	50.00
16	To B. L. Gossick, Fairfield, Ia.	102.50
20	To Z. Kinne, Jr., Three Oaks, Mich.	37.50
22	To G. E. Leslie	160.00
23	To C. S. Davidson	65.00
25	To T. A. and W. S. Goodrich	75.00
26	To M. G. Arnold, Shawberry Pt. 2A.	35.00
27	To Dr. T. B. Spaulding	32.50
28	To Z. Kinne, Jr.	190.00
29	To Dr. T. B. Spaulding	65.00
31	To S. P. Childs	37.50
32	To T. A. and W. S. Goodrich	35.00
33	To Ed C. Weeks, Eldon, Mo.	30.00
37	To E. S. Davidson	45.00
39	To E. S. Davidson	30.00
43	To T. A. and W. S. Goodrich	100.00
49	To Ed C. Weeks	50.00
51	To Ed C. Weeks	35.00
53	To T. C. McGrath	52.50
56	To M. G. Arnold	37.50
57	To Ed C. Weeks	31.00

Fifty-nine head sold for \$3869; an average of \$65.40 per head. Missouri took 18; Kansas 16; Iowa 5; Illinois 2; Ohio 1, and the Indian Territory 1.

No man can expect to be happy whose thoughts all center on himself.

—Billings.

The Marble Bank Building  
**THE OLD NATIONAL BANK**  
Of Spokane, Wash.  
Capital \$ 200,000  
Assets 4,000,000  
Interest allowed on Certificates of Deposit and Savings Accounts.

## T. A. HUBBARD'S PUBLIC SALE

A selection of tops from Rome Park herd; the largest combined herd of Poland and Berkshires in America, at Wellington, Kansas, October 18th, during Carnival. Watch Kansas Farmer for further particulars.

## SALE OF POLAND - CHINA HERD HEADERS

At El Dorado, Kansas Fair Grounds  
**FRIDAY, OCTOBER 6TH, 1905,**  
During the El Dorado Fair.

The herd boar, Sunshine, by Perfect Sunshine, he by Ideal Sunshine; dam by Mo. Black Perfection; second dam by U. S. Chief; third dam by Chief I Know. Sunshine and 14 of his sons, one yearling, the rest all herd-headers, and 8 choice gilts are included as tops of this offering. If you can not attend be represented by bids even if not high. Send by mail or wire to John D. Snyder.

**DR. M. L. FULLENWIDER, El Dorado, Kans.**

## WE WANT NAMES

We want you to send us the names and addresses of from ten to twenty-five farmers having a few head of stock (cows, horses, pigs) living in the United States. You can send us the names from any number of different postoffices. If you will send us these names we will send you FOUR BEAUTIFUL PICTURES FREE. These pictures are reproductions of the most celebrated paintings in the world, and they are high quality, and we know that you will be pleased and delighted with them; no pictures will be given for a list of less than ten farmers.

We want to send a sample copy of the RURAL HOME to a lot of farmers who are not now taking our paper and that is the reason we want these names. Send us immediately a list of at least ten farmers and we will send you, absolutely free, four reproductions of the World's Famous Pictures. Address, THE RURAL HOME, 20 North William St., New York, N. Y.

## To Save Your Face

from irritation and discomfort, shave your face with  
**WILLIAMS' SHAVING SOAP**

Sold everywhere. Free trial sample for 2-cent stamp. Write for "The Shavers Guide" how to Dress Correctly."

The J. B. Williams Co. Glastonbury, Conn.

## CRUDE OIL BURNER

**SUCCESSFUL AT LAST**

Adapted for use in any No. 8 cook stove. No dirty coal to bring in, or dusty ashes to take out. Safe, simple, clean, convenient, and economical. Made by  
**MIDLAND FOUNDRY, TOPEKA, KANSAS.**

## MACHINE OIL \$3.50 A BARREL

You will find it a better machine oil than anything you have been buying for 35 cents to 45 cents per gallon. Premium Oil is a natural oil, greenish black in color. There is no made oil that is superior to Premium Oil for engines, shafting, shops, elevators, thrashing machines and farm machinery. It will not GUM, has good body, is not affected by hot and cold weather as most oils are. If a farmer, you say you won't need as much as a barrel. Get your neighbor to take half of it. But remember \$3.50 for a 50-gallon barrel, and the empty barrel is worth at least one dollar; gives you oil at less than 6 cents per gallon at your railroad station. If within 300 miles in Kansas freight will not be over 75 cents per barrel. Sample sent on request.

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

## WET WEATHER COMFORT

"I have used your FISH BRAND Slicker for five years and can truthfully say that I never have had anything give me so much comfort and satisfaction. Enclosed find my order for another one."  
(NAME AND ADDRESS ON APPLICATION)

You can defy the hardest storm with Tower's Waterproof Oiled Clothing and Hats.  
**Highest Award World's Fair, 1904.**

OUR GUARANTEE IS BACK OF THIS SIGN OF THE FISH  
**A. J. TOWER CO.** TOWER'S FISH BRAND  
Boston, U. S. A.  
**TOWER CANADIAN CO. Limited**  
TORONTO, CANADA

Pure English Blue Grass Seed.  
One thousand bushels of FANCY English Blue Grass, Strictly Clean, \$6.00 per hundred pounds or \$1.35 per bushel f. o. b. Independence Kansas. No charge for sacks. Send for sample.  
**UNION IMPLEMENT & HARDWARE CO.**

**Gossip About Stock.**

On Wednesday, October 4, 1905, at Belleville, Kans., W. H. Shoemaker, of Narka, Kans., will sell a choice bunch of Short-horns. This herd was founded about five years ago with animals bought from D. Tennyson, of Frankfort, Kans., and a herd bull bought from G. Y. Johnson, Willis, Kans. The present herd bull was bought from D. L. Taylor, Sawyer, Kans., at his Manhattan sale. The herd includes Young Marys, Pomonas, Rubys, Prim-roses, and several Scotch-topped families. The writer has not seen the present herd bull Dale 193549 for some time, but when last seen he was a very promising bull. He comes from the same origin as the Citizen Crocus family and was sired by Koan Duke 159499. We understand this bull is to be included in the sale together with several of his calves of both sexes and a number of cows bred to him. Mr. Shoemaker has good Short-horns that are well-bred and useful and his sale will probably offer one of the opportunities of the year to farmers and breeders who desire to start new herds or to get new blood for their old ones.

C. M. Smith, Albany, Mo., announces a great sale of his Duroc-Jersey swine to be held at Albany, Mo., on October 19. The offering will consist of ninety head of finely bred Durocs. Of these ten are tried and mature sows that have proved themselves extra good breeders and are of such blood lines as Duroc Challenger, Duroc King, Red Perfection, Bishop's Choice. A number of the offering will be of E. Z. Russell's breeding and several were sired by the famous Oom Paul. There will be thirty-five early spring boars and an equal number of early spring gilts. Albany, Mo., is in Gentry County, northeast of Kansas City and within easy reach of that place. There will be included some older boars than those mentioned, ranging from 18 months to 2 years and containing the best blood known to the breed. Buyers from a distance will be entertained at the sale. This will be a large sale of highly-bred swine and will afford an excellent opportunity for buyers to get good swine at their own prices.

T. A. Hubbard, a veteran breeder, now county treasurer of Sumner County, at Wellington, Kans., will sell a draft of Poland-Chinas and possibly a few Berkshires from his Rome Park herd at Wellington, Kans., October 18, the week of the carnival. Mr. Hubbard is one of the veteran breeders and now owns one of the largest herds of Poland-Chinas and Berkshires anywhere in the West and has an extra choice lot of all ages on hand for the season's trade and is selecting a draft of the tops for this sale. It has been said that Mr. Hubbard has the best lot of hogs on hand that he has ever had, and when it is remembered that when he was making a business of showing he was one of the breeders who always got the ribbons it must mean that the hogs that he will offer to the buyers this season are the kind that they are looking for. Remember the date and write Mr. Hubbard for further information.

Cottingham & Sons, the big breeders at McPherson, Kans., were winners of many ribbons at the McPherson fair. They were given prizes in Shorthorns as follows: Second on bull, 1 year and under 2; second on bull under 1 year; first on heifer, 2 years old and over; second on heifer, 1 year and under 2; first on cow any age; sweepstakes for cattle, any breed. In Percherons they won second on aged stallion, first on 2-year-old stallion; first on brood mare and foal; first and second on yearling filly; first on filly under one year; first on span of draft mares or geldings. In road-horses they won first on horse colt under 1 year and in standard-bred horses they won first on stallion, any age, and sweepstakes on stallion. McPherson had a good fair this year.

The Fisher Live Stock Company, of Hastings, Neb., are advertising O. I. C. white hogs and write the Kansas Farmer that they have 200 pigs ready for shipment, quite a number of which were sired by Norway Chief whose illustration appears elsewhere in this issue. Norway Chief was bred by H. D. Nutting, of Emporia, and was one of a litter of fourteen pigs. His dam, Queen of Walnut Grove, has farrowed six litters of pigs, two of 14 each, three of 15 each and one of 16. Norway Chief was shown last year at Nebraska State Fair, winning first in class and sweepstakes.

R. F. Norton, of Clay Center, Kans., writes that he was unable to show at the Topeka State Fair on account of not being able to get his stock there in time for entry, owing to delay enroute, but he states that if breeders are anxious to get Durocs of good blood he will be glad to send descriptions and prices to any who may inquire. Most of his pigs are sired by Norton's Wonder 24685, and all are from mature dams. They are now on alfalfa with a little grain, and are as fine hogs as Mr. Norton ever owned. Write R. F. Norton, Clay Center, Kans., for prices.

Do you want to buy a few good Duroc-Jersey hogs? Look up J. W. Ferguson's adv. and note what he tells you about what he has for sale. He intended having a big sale, but as that costs about \$5 per head he has concluded to give that to his customers; they are sold on a guarantee or your money back—better write him to-day.

**Galloway Sale at the American Royal.**  
There will probably be no greater event in Galloway circles this year than the sale at Kansas City Thursday, Oct. 12, during the week of the great American Royal Live Stock Exposition. A choicer lot of animals in the prime of usefulness has seldom been, if ever before, contributed by the prominent Galloway breeders to an association sale. A glance at the names of the consignors should be sufficient evidence of the quality of the animals in the offering. The consignors are as follows: Claud Attebery, Atlanta, Mo.; J. E. Bales & Son, Stockport, Iowa; W. M. Brown & Son, Carrollton, Mo.; C. E. Clarke, St. Cloud, Minn.; S. M. Croft & Sons, Blue City, Kans.; J. and W. R. Clelland, New Hampton, Mo.; Michigan Premium Stock Company, Davisburg, Mich.; Snodgrass & Hazen, Bolcourt, Kans.; F. P. Wild, Cowgill, Mo.  
Never before has such a collection of

bulls of superior quality and usefulness been consigned to a sale at Kansas City or elsewhere; thus it is to be hoped that all Galloway breeders and ranch men will appreciate this fact and take advantage of this rare opportunity to secure animals of outstanding merit at their own public prices.  
For catalogues and further information address Charles Gray, 17 Exchange avenue, Chicago, Ill.

Dr. M. L. Fullenwider, Eldorado, Kans., will make a sale of Poland-China hogs, principally herd-headers, during the fair at Eldorado, October 6. At this time he will sell the 2-year-old Sunshine boar, one of the best breeders in any of the Western States, as is shown by the excellent group of boars under 1 year offered with him. This boar is possibly the best-bred Sunshine boar in Kansas and as a breeder is almost phenomenal. Mr. Fullenwider is loath to part with him but wishes to retain his daughters as the greater portion of his herd sows and does not keep a large enough herd to keep two boars. This hog would make a strong showing in any ring and is invaluable as a breeder. Write Mr. Fullenwider for breeding of these boars and be represented in person or by bids sent to John D. Snyder, care of Dr. Fullenwider, Eldorado, Kans. If you need a herd-header, investigate these carefully as it is our prediction that no better lot of boars under 1 year will be sold this year.

The breeders' combination sale of Hereford cattle, to be held in the live-stock pavilion on October 11, during the American Royal Show at Kansas City, is a specially well-selected lot, and as the sale is to be held under the auspices of the American Hereford Association, every animal consigned to the sale was inspected at the home of its owner before being accepted for the sale. For catalogue address C. R. Thomas, secretary, 225 West 12th St., Kansas City, Mo.

F. A. Tripp & Sons, Meriden, Kans., announce that they will hold a public sale of Poland-Chinas on October 5, the offering to consist of spring boars and gilts, and a few young sows with pigs at side. Mr. Tripp also offers to sell the big-boned, long-bodied boar which showed at Topeka under 12 months class, and he says he is willing to give \$150 for one that equals him. Everything will be fair and square at this sale with no reservations or protested bids other than sent by mail. Remember the date, Thursday, October 5.

J. J. Ward & Son, owners of the Alfordale Poland-Chinas at Belleville, Kans., will manage a combination sale at Belleville on October 24, when fifty well-selected Poland-Chinas, the tops of seventeen herds from five counties in Kansas, and including animals from three States, are to be sold. All the animals offered are from well-bred and notable sires.

H. N. Holdeman, Girard, Kans., announces his third annual sale of Poland-Chinas to be held at Girard on October 27. Mr. Holdeman also contemplates holding a sale of Holstein-Friesian cattle at the State Fair Grounds, Topeka, the latter part of November.

**Aberdeen-Angus at Kansas City, October 13.**

Under the auspices of the American Aberdeen-Angus Breeders' Association and during the week of the American Royal at Kansas City, on Friday, October 13, will occur the annual auction of Aberdeen-Angus. As these auctions have somewhat to do with establishing values, it is important that breeders generally, whether they desire to purchase or not, should be present on these occasions. The Angus sale is held rather late in the week and breeders who cannot spend the entire week of the American Royal at Kansas City, should make their arrangements accordingly and be on hand Friday. Sixty head of high-class animals are catalogued consisting of forty-six cows and heifers and fourteen bulls. There are cows and heifers in calf to Prince Ito 2d, the undefeated champion Aberdeen-Angus bull of America, and several with calves at foot by this bull. There are first and second prize-winners and also champions of the State fairs of this year, catalogued for this occasion. The families represented are Blackbirds, Prides, Queen Mothers, Nosegays, Drumin, Lucys, Heather Blooms, Minas, Westertown Roses and others that have become famous for the production of prize-winners. The most famous sires of the breed are represented by their get and the American Royal sale at Kansas City this year, can be depended upon to furnish all who may want them, with Aberdeen-Angus of the best type and characteristics. If in need of a herd bull, show-heifer, show-cow and especially a superior producing matron that has demonstrated her excellence, this offering should by all means be investigated. W. C. McGavock, Springfield, Ill., is the manager of the sale and he will take pleasure in mailing all who may request them, catalogues of this sale. The list of consignors follows: C. J. Martin, Churdan, Iowa; W. B. Seeley, Mt. Pleasant, Iowa; R. S. Williams, Liberty, Mo.; McLachlan Bros. & Johnson, Estill, Mo.; William Avery, Waldron, Ind.; Geo. Kitchen, Jr., Gower, Mo.; I. V. Sawyer, Clearmont, Mo.; W. J. Ballard, Liberty, Mo.; F. F. and V. G. Warner, Bloomfield, Iowa.

**Entries of Cattle for the American Royal.**

Entries in the cattle department of the American Royal Live Stock Show to be held at Kansas City, Mo., October 9-14, carlots not included, aggregate 911 head. Of these 713 are pure-bred breeding cattle and the remainder pure-bred and grade fat cattle. The following is a summary of the entries and a comparison with last year, the record year in the show's history:

	Breeding Stock.	Fat Stock.	Total.
Herefords	234	35	269
Shorthorns	254	31	285
Aberdeen-Angus	140	28	168
Galloways	85	4	89
Total	713	98	811
Total 1904	717	65	782

Entries of breeding and fat cattle have been made by 115 exhibitors from 12 States, one Territory, and one province of Canada.

**90 Duroc-Jerseys at**  
**AUCTION**  
Fellow Breeders of the Duroc-Jersey  
**OCT. 19, AT ALBANY, MO.**  
(Gentry, County.)

Under tent, I will sell about 90 head of Duroc-Jersey hogs, consisting of ten mature sows that have been tried and not found wanting, and of such breeding as Duroc Challenger, Duroc King, Red Perfection, out of litter sister to Improver 11th, Belle's Bishop out of Bishop's Choice, sired by Belle's Chief, a Jennie June 11th sow, a King Mortl sow. Some of E. Z. Russell's famous Glendale sows, three of the Reed & Banks Oom Paul and other breeding. Thirty-five early spring boars, thirty-five early spring gilts sired by Young Giant, Dassel's Duroc Red Jacket, Short Stop, (full brother to Coles Duroc) Banker, Wonder, Eclipse, Long John and others.

Come, and if I can't show you some good sows you need not look anywhere else for them for you are hard to suit. Good feet, backs, heads and ears, and about right. Will also sell one 18-months-old boar named Ben, 34568 out of R-lialle by King Russell. Two yearling boars, Long John and Oom Paul breeding. Also one sow with litter of seven pigs.

Send for a catalogue, and look up the breeding, etc. Remember the time and place. Albany, Mo., Gentry Co., October 19 Free entertainment while here.

**Col. John Brennen, Esbon, Kansas, Auctioneer.**

**C. M. SMITH,**  
Lone Star Route. **ALBANY, MO.**

**GET THIS WINDMILL GRINDER FREE**

Then your Pumping Windmill will do your Feed Grinding and run One-Hole Sheller and Churn or Grindstone. We don't give it away, but we ship it to any reliable farmer to use, and after the grinder pays for itself, then you pay us. If it don't work you ship it back without paying anything. **You Take No Risk.**

Especially recommended for use with 8-ft. Back Geared Star, Goodhue, Samson, Ideal Fairbanks, Dandy, Demster, Duplex, Red Cross, Capital and 10-ft. Halladay wood mills. Any good windmill that makes 35 to 50 strokes per minute is sure to run it good. It pays for itself by the time you are to pay us and really costs you nothing. You have **Thirty Days Trial** to decide if you wish to keep it. You fill up the hopper over grinder and let it grind, without further attention, night or day. You can put the Rotary Grinder in barn or other building as desired, within 150 feet of windmill.

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5,000 acres in Hodgeman county, Kan., at from \$7 to \$15 per acre, in quantities to suit. Excellent wheat lands on easy terms.

4,480 acres smooth fine wheat lands in Hamilton, county, Kansas, at \$50 per quarter, upon easy terms.

20,000 acres good wheat and farming lands in Hamilton county, Kansas at \$3 per acre, in large or small tracts, on easy terms.

All of these lands are selling rapidly. Do not delay if you would secure a bargain.

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All you need to make the land pay for itself and also make you and your family independent for life. **Low Prices.** Write for full information. **FREE.**

**B. A. MCALLISTER, Land Commissioner,**  
Department F U. P. E. R., Omaha, Nebraska



**In the Dairy**

**To Make Dairying More Profitable.**  
THOMAS SHAW.

Lots of dairymen would be better dairymen if they only knew how.

The first great difficulty that confronts the man who goes into the dairy business is to be able to know how and where to procure a true type of a dairy animal. The breeders of thoroughbred cattle are no better and probably no worse than people in other lines of business. They are in the business for the money there is in it and they are going to get the business even if they do have to tell a good story and stretch the truth a little to make a sale.

While the breeders of the different breeds of cattle have an association, one of whose missions is to protect the innocent purchaser from frauds of this kind, the strifes and jealousies between them are so great that they stop at nothing to depreciate the value of competing breeds and bolster up their own. This was plainly manifest in the now world-renowned test in St. Louis last summer, when the different associations, after being provided by the exposition with guards and police to see that everything was done fairly, hired special police to watch the exposition police and again hired police to watch the police hired by the other breeders.

It is not to be wondered at that the dairymen become bewildered and don't know what is the best thing to do. It is true that by purchasing a sire from a known breeder of a dairy type of cattle, the chances are good that they will get a milking strain; but there is no assurance of this. About the best way, and in fact the only way, to become certain of being a genuine dairyman is to thoroughly post one's self on the correct form that goes to make a milch cow. Then you would not have to take the word of any breeder. But in order to do this you must know what to look for.

Professor Shaw has given a simple set of rules for the dairyman. They are so plain any one can understand them and we take the liberty of giving them here:

**Size.**—The cow should be medium to large for the breed.

**General Outline.**—The triple, wedge-shaped formation has long been considered essential although it is not explicit. It implies: Increasing width from the withers downward; increasing width toward the rear parts; some increase in distance between the top and bottom lines as they go backward.

**Head.**—The head should be medium to fine, clean cut, and relatively longer, lighter and more dished than in the beef breeds. Features are described as follows: Forehead broad and dishing; nose fine; muzzle medium to broad and moist; nostrils large and open; cheeks clean and spare; eyes prominent and lvelv; poll medium to wide, according to breed; horns fine; ears medium, with ample secretions, thinner than in the beef breeds and somewhat livelier.

**Neck.**—Inclining to long and light, almost slim. It should be fine at the junction of the head and should widen and deepen only gradually. The junction with the body should be well defined, almost abrupt in character.

**Back.**—Narrow at the withers, wide at the loin, and at least moderately so at the pin bones, and straight or swayed according to breed and individuality. A straight back is to be preferred, other things being equal. The spine column should be large, well de-

finied and open spaced. There should be more or less of a downward slope from the crupper to the outer edge of the hip.

**Forequarters.**—Lighter than the hindquarters and spare; withers narrow; shoulders not heavy, more pronounced, and more slope toward one another, and more or less abrupt in front; chest wide through the heart, and capacious breast, wide below but not prominent; brisket wedge-shaped; arm inclining to light

**Barrel or Coupling.**—Long, deep, capacious, in a sense, paunchy; ribs broad, wide-spaced, with a deep, downward and outward spring, and much space between the last rib and hook point; crops steep, but not necessarily depressed; fore flanks fairly well filled; hind flank thin, but not sunken; underline more or less sagged; girth at least fairly good around the heart, and increasingly so at the hind flank.

**Hindquarters.**—Long, but varying somewhat in the breeds, wide at top of the hips and coming well down, but without fullness; hips not heavy, but more heavy in some breeds; thighs inclining to be light, thin and more or less incurved; buttock upright or receding somewhat toward the thigh, and roomy; tail not coarse, tapering, of good length and hanging at right angles to the back.

**Escutcheon.**—Well defined and well developed from the perineum to the udder and extending well outward on the thighs. Breadth below the perineum is said to denote prolonged milking qualities. Width at the thighs is said to indicate deep milking qualities.

**Udder.**—Long, broad and deep, extending well forward and well up behind, and evenly quartered. It should be well let down, but not pendulous, and the skin should hang in loose folds behind when the udder is empty. In quality it should be fine and elastic, glandular, not fleshy. The hair of the udder should be soft and not plentiful. The veins of the same should be well defined. The teats of medium size and squarely placed or pointing outward.

**Milk Veins.**—Large, tortuous, preferably branched and entering the abdominal wall well forwarded and through large orifices, usually called milk wells. More commonly there are out two milk wells, but more are much prized. The veins increase in size with advancing age of the animal.

**Legs.**—Medium in length, fine in bone, and straight, at least fairly wide apart and yet under the body.

**Skin.**—Medium to fine, finer than in the beef breeds, easily movable, and covered plentifully with fine, soft hair.

**General Appearance.**—The carriage should be active, the prominences at the angles and the ribs distinctly apparent, and there should be evidences of a tendency to sparseness in form when in milk.

**Air Treatment of Milk Fever.**

I have had my first experience in treating milk fever with the bicycle pump. I have seen cases of milk fever before and know what it was. I had never heard of the treatment and when one of the best cows of my herd came down a few days ago I concluded it was all up with her. However, I did not propose to let her die without some effort to save her. She came down about ten o'clock in the forenoon and at three o'clock could not raise her head. I called in a veterinary surgeon, who, after examining her pronounced it a doubtful case. He prepared a fluid to be injected into her teats but it was apparently did no good and at seven o'clock we gave her up for dead.

About nine o'clock my neighbor, who had been up town and heard of

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my sick cow, telephoned me to get a bicycle pump and pump her udder full of air. I told him that it was no use, that the cow was dead; he said it made no difference, to pump her up anyhow. It seemed a foolish thing to do but to satisfy him I got a bicycle pump and got to work and soon pumped her up so her udder was as tight as a drum. There was not a stir out of her, and I left her there for dead, and directed my man where to bury her next day. Early next morning one of my boys was going to the field where the cow lay and I asked him to notice whether she had moved at all since we left her the night before. You can imagine my surprise when, in about half an hour, I looked out and saw him coming with the cow and she looking as well as ever she did. I could hardly believe it, but there she was, and she is now giving more milk than before. This is surely a wonderful treatment for that

**The Dairy Problem Solved,  
and Solved Rightly.**

Since man first began to milk cows, the problem of how to make the most dollars from them has been up for solving. After centuries of experiment the way has been discovered.

**An Easy Running  
Empire  
Cream  
Separator**

will get these dollars for the cow-owner, and will get them all. This is no experiment, it is an actual fact proven by years of experience by farmers the country over.

You want to know why; we want to tell you why. Write, and get our free books on dairying. Read these; then investigate the Empire. The result can only be one thing, a complete proof that our statements are true.

**Empire Cream Separator Co., Bloomfield, N. J.**  
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**DOES IT EASILY, TOO!**

If you keep cows, you want to get all the cream, for that means the most profit; and it's economy to get it the easiest way with the least work and bother. The improved

**U. S. Cream Separator**

Which Holds World's Record for Close Skimming  
provides not only the most profitable, but the easiest and least expensive way to handle your milk.

BETHEL, ME., January 11, 1905.

"I know that the U. S. Cream Separator stands ahead of anything else for clean skimming and I can make more butter with that than any other way and it turns easy. I run it and the children run it."

"MRS. E. E. CHASE."

Send for booklet No. 378-A, illustrated in colors, explaining in detail about the durable and simple construction of the U. S., and showing plainly why it

**Gets the Most Cream**

**VERMONT FARM MACHINE CO., Bellows Falls, Vt.**  
20 Distributing Warehouses throughout the United States and Canada.

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**DAIRY TUBULAR BOWL—All Apart**

"Bucket bowl" separator makers falsely claim to make separators with light, simple, easy-to-wash bowls. We are the only makers who dare show a picture of our bowl—all others refuse. There are secret difficulties about other bowls the makers want to hide. Pictures would betray them. Other makers fear pictures. Our handsome Catalog Z-105 tells these secrets. Write for it today.

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is simple because it has to work under all kinds of conditions without an expert to watch it. It is easiest to run because it is the only Separator in the world with ball-bearings throughout. It is the best skimmer because the bowl is the finest piece of mechanism ever invented for the purpose. Our catalogue tells the whole story, and it is free. Write now. Address

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No expense to you to receive, try and return the separator. We pay the freight both ways.

dreaded sickness, but it does the business, and every farmer ought to know how to use it, and it would be well, too, if veterinarians knew something more about it than they do.—Alex. Hubbard, Chippewa County, Michigan, in Breeders' Gazette.

**Miscellany**

**The Railroad Question.**

EDITOR KANSAS FARMER:—Every one knows how Rockefeller and his lieutenants bought, bribed, bluffed, and bulldozed the railroad to secure for themselves better rates on oil than were given their competitors and in so doing built up the Standard Oil monopoly. Many other monopolies, such as the beef trust, etc., which have so mercilessly oppressed and robbed the people and destroyed individual effort and opportunity, have been built up and sustained by getting rebates and preferential rates from the railroad.

It is pretty generally understood by every one how large cities force the railroads, either willingly or unwillingly, to give them better rates on all freight shipped into or out of them and thus increase their size, wealth, population and business at the expense of the smaller towns and cities; for instance, manufacturers will build plants in large cities, and wholesale and large mercantile houses, etc., will be established there in preference to the railroads. Big manufacturers force or hire the railroads to give them better rates than they give the small ones. This manipulation of the railroad by the big cities, big manufacturers, and big shippers, brings about a congested state of affairs, that is far-reaching and has more influence on the social and economic life of the people than many suppose. The results are a congestion of wealth, business and population in large cities at the expense of the country and smaller towns, a few individuals growing wealthy and dangerously powerful at the expense of the masses; a destruction of that political and social equality which rests chiefly upon the equitable and equal distribution of wealth and which is absolutely essential to the perpetuity of a republican form of government. Regulate by government control or ownership, or in any way that will give every shipper a "square deal;" so that the man who ships ten pounds once a year can get as fair rates as the individual or corporation that ships one thousand tons a day; so that the hamlet that ships one wagon-load a day can get as fair rates as the commercial metropolis that does a daily business of ten thousand car-loads; do away with the long-haul-for-nothing and robber rates on the short haul. Do this, remove this one great cause and a thousand other evils will cure themselves.

**THE SQUARE DEAL.**

In our complex and independent civilization transportation is just as essential as production. But few of the articles that any individual uses are produced in his own locality. But few of the articles that the average individual produces are consumed by him and his immediate neighbors. Transportation must equalize—supply deficiencies, relieve congestion. It is the one thing absolutely essential to the maintenance and development of a high and complex civilization. Clog up these great arteries of commerce and the life-blood of the body politic becomes congested in certain centers and becomes impure and corrupt. It leaves the other parts of the body without sufficient warmth and nourishment. What good results then might we reasonably expect a regulation of freight rates—an absolutely "square deal" in the shipping and passenger business for every individual and every locality—to bring about?

I will mention a few of the ills I think such a regulation would cure or greatly relieve. In the first place, railroads would be saved from themselves—from their own rapacity and greed; from exhausting competition; from

wasted energy in an effort to outdo their competitors. In the second place, they would be saved from the rapacity of trusts, big cities, big manufacturers and big shippers. Those powerful organizations could not force them to ship many things at a loss and thus put themselves under the necessity of recouping that loss by robbing the little fellow. The above are some of the benefits the railroads themselves would derive by being regulated by a power outside of and higher than themselves.

**BENEFITS THE COUNTRY.**

I will now try to give a few of the benefits that the country at large would derive from such regulation: We often hear and read of considerable effort being made by philanthropic persons to induce the poor, miserable people in the congested districts of large cities to move to the country. They are well-meant efforts but they are sporadic and do about as much to relieve the situation as putting Egyptian salve on the skin to cure measles. While large cities are essential as centers of commerce, wealth, refinement, art, etc., the smaller you can make them by giving that commerce, wealth, refinement, art, labor, business, etc., to the smaller towns and rural districts, the better, the better, and the better of the Nation. Large cities are sources of corruption. Statesmen speak of the ease with which the rural population is governed. They call it the great balance-wheel—the conservative element that comes to the rescue and saves the country. Iowa, with no large cities, is governed for the people and by the people—governed with less graft and corruption than Missouri, New York, Pennsylvania, and Illinois, with their large cities that control the State governments. While the human species is gregarious they can not stand too much crowding. They must have fresh air and rural surroundings to develop the highest that is in them; they must touch the earth, live among vegetation, trees, and flowers, and commune with nature. Too much crowding brings degeneracy—moral, physical, and intellectual degeneracy. But how will a regulation of the railroad, passenger, and freight rates relieve the congested population of large cities? It will cause factories, wholesale houses, etc., to spring up in small towns all over the land. It will give the small town traffic business, wealth, and population. It will cause the big town—the great metropolis of wealth, splendor, crime, misery, pauperism, inequality, injustice, consumely servility, hatred, fear, and municipal corruption—to grow less. It will ruralize our country. It will give the little, poor individual a chance to compete with the big, rich fellow, encourage competition, and knock the chief prop from beneath the many monopolies, for it is a well-known fact that many of the monopolies if not most of them, get advantages that enable them to throttle competition by obtaining special shipping privileges from the railroads. Couple this regulation with legislation greatly restricting the amount of land one person may own, and while we may not reach the millennium at once, I think we will have taken a step towards a much better condition of affairs. There should be factories scattered throughout the land in towns great and small; the employees each with a home and a plot of ground to raise vegetables, fruit and poultry and perhaps a few pigs and a cow, thus giving as many people as possible a taste of the primitive occupation of man; trolley lines running out into the suburbs and country, carrying people from their rural homes to their urban workshops, stores, offices and back again; those people spending their evenings chiefly at their rural homes and suburban homes among books and flowers and trees and with their own families instead of in the obscure, maudlin, de-

grading society of the saloon and other questionable places of amusement. "Tis a consummation devoutly to be wished." A proper and sufficient regulation of the railroads will do more to ruralize this big country of ours than any other one thing.

**BENEFITS HUMANITY.**

If we want to raise a fine grade of human beings here in America with lots of brains and character, we must stop this business of jamming millions of them into a few large cities. Of course every one knows that the State has plenary power and an absolute right to regulate railroads in such a way as to secure the greatest good to the greatest number of people. Any other theory is unthinkable. Good transportation service at equitable rates is just as essential in supplying the people with the necessaries of life as rain and sunshine; and to argue that a few men who happen to own a railroad have a right to arbitrarily fix rates is just as reasonable as to suppose that the people would be safe in entrusting their supply of rain and sunshine to the caprices and tender mercies of a grain-speculator on the Chicago board of trade. If Congressman Calderhead is quoted correctly in his recent speech on railroad regulation, I am surprised that a man who aspires to represent the intelligent people of Kansas in this enlightened 20th century, should preach such antediluvian doctrine. There are only two conclusions to draw: He is either a man of dense, Bourbon, moss-back ignorance or he is a servile tool of the railroad. In either case he is unfit to represent the people of Kansas who are leading the world in the march to a realization of that delightful dream, complete liberty of the individual coupled with a knowledge of his relations and an unerring performance of his duties to the society of which he is an integral and interdependent part. The people should see to it that their Representatives in Congress and the State Legislatures are right on the railroad-rate-regulation question. If

**Economical Heat**

Any heater will give some heat—what the Wilson Hot Blast Heater does is to give a large degree of heat at a small cost. A thermometer will prove it to be the most economical heater in the world. The cost of the actual heater is not what counts—it's what that heater costs to keep in fuel.

The reason why the **Wilson HOT BLAST Heater** costs less to keep in fuel than other heaters is because it burns into heat all the gases generated in the heater. This is one of the advantages of its scientific construction. It takes its draft by a *patent method* from the top of the stove.

In this way, the Wilson Hot Blast Down Draft creates three times the heat of other heaters, and makes a great saving in fuel. Made in different styles for soft coal and also for wood. The picture shows the soft coal heater. If your dealer does not sell Wilson Heaters, write us. We will tell you where to get them, and send you a book on house heating, free.

**SIMMONS HARDWARE CO., St. Louis, Mo.**  
Wilson Ranges make baking day easy.

**A Wonderful Stove**  
Just Consider the Original **Moore's Air Tight Heater**

**Outside**—The handsomest stove on the market, bar none. The outer casing is an open grille of tracery in iron. Brilliant triple-nickel plating adds to its attractiveness.

**Inside** like a little furnace. Heavy everlasting firepot, which not only outlasts others, but by means of the special hot-blast draft flues at the sides, sets fire to the gases which come out of the coal. This makes an even fire, burning from the outside in, instead of from the inside out; burns up everything but the ashes, and burns the cheapest slack as well as the best coal.

**Warm** by circulation. Draws in the air at bottom of stove (the cooler air from the floor) and discharges it through the open work casing. Keeps the air moving. Maintains an even temperature. No cold corners or floors. Warm rooms keep children healthy. This circulation prevents blacking from burning off and nickel stays bright.

**Double Heater.** Will warm up-stairs if you wish. As good as two stoves, for the cost and fuel bill of one.

**Dustless.** Has a dust flue, like a furnace that draws all dust up chimney when shaking down.

**Air-Tight.** Doors and drafts are ground to fit within 1-1000 of an inch. Great saving of fuel. Holds fire 24 hours.

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we would regulate the trusts and cure many other social, economic, industrial evils, we must begin by regulating the railroads.

Good and evil seem to be different degrees or uses of the same thing. While railroads are the greatest blessings of modern times, by their mismanagement they have brought upon humanity some of its greatest evils. They have done more to concentrate the industries, wealth, and population of the country into large cities and to put the wealth into the hands of a few people than any other agency. Conversely, by their proper management they can do more to scatter wealth, population and industry throughout all the land than any other agency. M. P. McNAMEE.

Reno County.

**Labor Unions vs. Farmers.**

EDITOR KANSAS FARMER:—It would be difficult for a farmer to make a greater mistake than to join issue with any labor union. The prime principle underlying labor organization is to increase wages as high as possible.

Admitting that this object is beneficial to the laboring man—and personally I am strongly in sympathy with that object, governed by reason and common sense—it must be seen that every dollar added to the wages of workmen adds to the cost of everything the farmer buys.

For instance, the farmer wants a wagon. The cost starts with the men who cut the lumber. If by organizing unions among the lumbermen the price is raised so much per day on the work, the increase must be paid by the farmer who buys the wagon. Then increase the wages of the moulders who make the axle sleeves and other castings on the wagon; then, increase the wages of the blacksmiths who do the iron work and of the wood-workers, painters, bolt-makers, spring-makers and you have an aggregate sufficient to make the farmer feel it seriously when he comes to pay out money for the purchase of a wagon.

The same principle applies to everything he buys, and when he has cultivated and nourished the labor-union idea far enough so that the farm hands form a labor union, he will, as certain as fate, be met with demands for increased wages, shorter hours and strikes.

Of course, it would be nice for the harvest hands to begin work at 8 in the morning, have an hour at noon and begin to swing in the hammock at 5 in the afternoon, but just how that would suit the owner of the farm is for him to say.

It must also be remembered that labor unions take particular pains to bring on strikes just at the time when the greatest harm could be done to the owner. That would mean when the wheat is ripe and waiting for the harvest, a strike of all the harvest hands in that neighborhood would be set up, and unless the farmers conceded to whatever the demands might be, the wheat would be allowed to become overripe, rattle out and fall to the ground, so far as the strikers were concerned, and farms would be picketed so that no help would be allowed to enter the fields. If we are to judge anything by the acts of the labor unions under their present methods of warfare, we would expect a farmer's house to be blown up with dynamite now and then, his horses killed, his harness cut up, his family insulted, and some killed. If the farmer cultivates the labor-union idea, he will certainly bring upon his head some, or perhaps all of the conditions herein laid down.

The labor-union members naturally want to keep down the price of everything they buy from the farmer and make him pay as high as possible for everything he buys.

The interests of the two are diametrically opposed to each other.

C. W. Post,

President National Citizens' Industrial Association, New York.

The fountain of tranquility is within ourselves; let us keep it pure.—Phocian.

**Oil and Gas of Independence Quadrangle, Kansas.**

The distribution, occurrence, development, production, character, and utilization of the oil and gas of the Independence quadrangle, Kansas, are briefly recounted by Messrs. Frank C. Schriager and Erasmus Haworth in a paper which is included in Bulletin 260 of the United States Geological Survey's publications.

The Independence quadrangle is located in Southeastern Kansas, and includes an important part of the Kansas-Indian Territory oil and gas field. This field has an area of nearly 11,000 square miles and extends from Paola, in Eastern Kansas, southwestward about 200 miles to Muscogee, I. T., and Cleveland, Okla. The Independence quadrangle lies near the middle of this great belt. Its principal towns are Independence, Coffeyville, Cherryvale, Neodesha, Caney, and Elk City.

The presence of oil and gas in the Kansas fields was known from surface seepage as early as 1855. Some prospect drilling was done in 1860, but development did not begin until late in the eighties. The earliest operations were begun in Miami County about 100 miles northeast of Independence. Near Paola traces of oil and gas were seen in numerous wells; and in 1865 a small quantity of oil was found in two wells about ten miles east of Paola. The first gas field within the quadrangle was soon recognized. It trends north and south, and Coffeyville lies over its center. At present the most productive areas for both oil and gas—which are usually intimately associated—are the Bolton, Wayside, Caney, Tyro, Coffeyville, Independence, Dearing, Drum Creek, Cherryvale, Salt Creek, and Neodesha.

Though small bodies of oil and gas are frequently found at depths of a few hundred feet below the surface, the larger bodies occur at greater depths in and near the Cherokee formation. The best wells, yielding oil of 32° B. gravity, strike oil in the middle or 600-foot sand. In the Independence region the productive zone ranges from 450 to 600 feet; at Cherryvale, from 700 to 800; at Neodesha, from 800 to 900; at Bolton and Caney, from 1100 to 1200. At Wayside, midway between Bolton and Caney, two oil sands occur at the depths of 700 to 800 and 1,350 to 1,450 feet. The productive sands seem to be uniformly fine-grained, as might be expected from close association with the shales.

Most of the wells are operated by companies which lease the land for a stated period from the owner, to whom they pay a stipulated royalty. This frequently includes gas delivered for domestic use on the premises.

There is a small, independent refinery at Humboldt, which, with the others that are being built at Paola, Erie, Cherryvale, Niotaze, and elsewhere, and are expected to be in operation by September, 1905, will make six independent refineries in all. Since about 1896, however, operations in the Kansas field have been largely in the hands of the Prairie Oil and Gas Company, the Kansas branch of the Standard Oil Company.

Like all Kansas oils, the oil of the Independence quadrangle has an asphaltum base. It is dark brown or black in color, and heavy, but varies greatly in specific gravity from place to place. The Standard Oil Company buys its oil on gravity tests.

The natural gas found in the quadrangle constitutes the light, fuel, and power of practically all the cities and towns and most of the farm communities. It is also extensively used for fuel in drilling and pumping. It is piped 150 miles to Kansas City, where it is used as an illuminant and generator of power. En route thither it supplies many cities and towns of Southeastern Kansas and Western Missouri. All this is but a small per cent, however, of the amount of gas consumed by the manufacturing industries to which this natural commodity has largely given rise. The most important products of these industries are brick, tile, pottery, glass, cement, flour, oil, zinc, and lead.

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**TOPEKA, KAN.**

**The Value of the Windmill on the Farm.**

To-day, in any good farming section of this continent, one of the most conspicuous features in the landscape is the windmill. Coming from Palmerston to Guelph last summer, the writer counted from the car window, as many as eight windmills in sight at once, and all along that road could be seen from three to eight mills in view at one time. The windmill, of course, is limited in its adaptability, and steam and other forms of power have permanently displaced it for many purposes. But for certain specific purposes, and among them the pumping of water, the windmill is not only thoroughly reliable, but it is the most economical motor now in use.

The windmill requires to be controlled, and in modern machines is automatically controlled, in two particulars; it has to be thrown into the wind, and the speed has to be regulated so that steady work may be done in variable winds. The first control is effected by means of a vane on the same shaft as the wheel, with its plane at right angles to that of the wheel. The wind catching this vane throws it around until its plane is parallel to the direction of the wind, and hence the wheel is pulled broadside to the wind. If, however, the wind should become too strong, either the mill has to be pulled partly out of the wind or else the different sections of the wheel are tipped, so that the wind is made to strike more obliquely and, therefore, with less effect, upon the surfaces of the vanes. The wheel itself is pulled bodily out of the wind by a side vane, with its plain parallel to that of the wheel, and on an arm that carries it out from the center bearings. When the wind becomes very strong, it forces its side vane around out of the wind, and with it the wheel. The individual sections of the wheel are controlled by a coil spring about the main shaft. A high speed of this shaft causes this spring to tighten, and by means of connecting rods to draw the individual vane somewhat out of the wind. By these means, a fairly uniform speed is maintained in a variable wind.

**USES TO WHICH THE WINDMILL MAY BE PUT.**

Under this head windmills are classified as power and pumper. The power mill has on the end of the wheel shaft a beveled gear, which engages a similar beveled gear on a vertical shaft. This vertical shaft extends nearly to the barn floor, and here a similar beveled-gear arrangement runs a horizontal shaft, from which, by pulleys and belts power may be carried to machines on the barn floor. The pumper has on the end of the wheel shaft a solid wheel to which a rod is attached eccentrically, thus imparting an up-and-down motion to the rod—a motion necessary to pumping water.

The same wheel may be made to drive machinery or to pump water by fixing both of the above attachments to the wheel shaft.

The writer sent out recently some inquiries to owners of windmills, respecting the uses to which these machines are put, their efficiency, power, and cost of maintenance. Following are copies of some of the replies:

1. "The size of our wheel is 15 feet. The grinder is a 10-inch plate. The wheel is about 60 feet above the ground. We drive the grinder, pulper, and cutting box, but intend to run a circular saw and pump water with it. I think it has about 14-horsepower in a good, fair wind. We find it satisfactory in every respect for grinding, pulping, or cutting corn or straw. It has not cost anything yet, only for oil."

2. "Our wheel is 16 feet in diameter and 62 feet above the ground. The machines we drive with it are root-cutter, emery-wheel, pump, grinder, and straw-cutter. In an average wind it gives a horse-power of 12. It has cost us 25 cents in three years for two bolts and \$1 for oil and axle grease. I advise any farmer of 100 acres or over to secure a 15-foot or 16-foot mill when getting one, so that he can use the power if necessary. A small mill, 8 or 12 feet, will not give

# President ROOSEVELT Strongly Endorses Rifle Practise For Boys and Girls

From NEW YORK HERALD  
August 26 1905

## PRESIDENT LIKES BOYS WITH RIFLES

Mr. Roosevelt Accepts the Vice Presidency of Public Schools Athletic League.

## PRAISES TARGET WORK

Fully Approves of the Clean Methods Employed in Training the Young Men of America.

## GIRLS NEED EXERCISE, TOO

OYSTER BAY, L. I., Friday.—President Roosevelt has accepted the office of honorary vice president of the Public Schools Athletic League, with headquarters in New York city. In his letter to General George W. Wingate, president of the league, President Roosevelt expresses his cordial approval of the objects of the league.

Following is President Roosevelt's letter accepting the tender of the honorary vice presidency:—

"OYSTER BAY, AUGUST 19, 1905.  
"My dear GENERAL WINGATE:—In answering your letter I beg to say that it will give me the greatest pleasure to accept the office of honorary vice president of the Public Schools Athletic League of which you are President.

**Praises Rifle Practice.**  
"I am glad that you have installed in each of four high schools a sub target rifle practice and are teaching the boys to shoot with the Krag, and I am pleased with the great success that you have met in this effort.

"I'm also particularly pleased that you are about to organize a woman's auxiliary branch, for the girls need exercise quite as much as do the boys.

"The demands such a movement make upon the time and the money of those engaged therein are very heavy. You are doing one of the greatest and most patriotic services that can be done, and you are entitled to the heartiest backing in every way from all who appreciate the vital need of having the rising generation of Americans sound in body, mind and soul. Sincerely yours,  
"THEODORE ROOSEVELT."



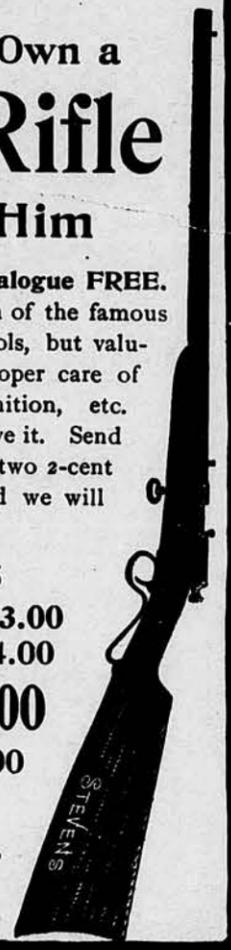
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  - "Crack Shot" - - - \$4.00
  - "Little Krag" <sup>see cut</sup> \$5.00
  - "Favorite, No. 17" \$6.00

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CHICOPEE FALLS, MASS.



the satisfaction. We pulp from four to five thousand bushels of roots per year, which will pay for a mill. The mill is the most paying machine on the farm, and no particular cost."

**ECONOMY OF WINDMILL.**

The windmill is ample for most power purposes on the farm. It is seldom that more than one machine is required to operate at once. It is not likely that a pump and a grinder or chopper would be run in a moderate wind at the same time. Where much or varied work is required of the mill, a larger one is more serviceable and economical.

In a comparison of the cost of windmill power with any other, not the total capital outlay should be considered, but the interest on the capital, a percentage of depreciation of capital, an annual outlay for oil, fuel and attendance. The windmill may cost more in capital outlay than other

forms of power, but while the interest on this may increase the charges against the windmill, it must be borne in mind that a considerable item of cost in running other forms of power is in fuel. For the windmill, fuel costs nothing, and thus the total charge against the windmill, as compared with other prime movers, has been found to be, per horse-power per hour, somewhat less; that is, the windmill as a means of developing power is one of the most economical, when the various factors of expense, as stated above, are taken into consideration. In this connection we may consider the economy of electric lighting by means of the windmill. The first cost, in addition to the windmill, would be quite considerable; probably, for electric generator and storage batteries enough to run eight or ten lights, about \$400. The interest and depreciation of capital for this would

amount to, say, 10 per cent, \$40. While this costs a great deal more, no doubt, than the oil which is used for lighting on the farm, yet when we consider the greater efficiency and safety of electric lighting, the greater protection that it guarantees against loss by fire in barn and house, this means of lighting may appeal to many as quite practicable and acceptable in point of cost. At any rate, for those who have thought of lighting by means of windmill power and electric generator, these figures are presented as a guide, so that persons who have the matter in mind may sit down and count the cost before embarking on the enterprise.—J. B. Reynolds, Ontario Agricultural College.

Very fu men hav ever made an ockashun, but ockashuns hav made menny a man.—Billings.

**THE HUTCHISON KANSAS STATE FAIR.**

(Continued from page 985.)

ond to Harned, Duross; third to F. D. Humbert, Nashua, Ia., Chester Whites; fourth to Wright, Poland-Chinas.  
Best boar and three sows under one year—First to Harned, Duross; second to Wright, Poland-Chinas; third to Holt, Berkshires.

**Kansas State Exposition.**

(Continued from last week.)

Following are the awards to Walter W. Gilmore, Topeka: Second on mixed sweet corn; first on best display of field corn, 20 ears to each display; first on sweet corn; second on golden pop-corn; first on display sweet corn, several varieties; second on display pop-corn, several varieties; first on white Kafir-corn; first on white winter wheat; second on red winter wheat; second on rye; first on black oats; second on winter oats; second on barley; first on buckwheat; first on white clover-seed; second on Alsike clover-seed; second on orchard-grass-seed; first on broom-corn; first on German millet; first on mammoth clover-seed; first on red clover; first on crimson clover; first on timothy-seed; first on blue-grass-seed; first on English blue-grass; first on redtop-seed; first on common millet; first on Hungarian seed; first on Dwarf Essex rape-seed; second on sugar-cane-seed; first on sunflower-seed; first on castor beans; second on timothy; second on blue-grass; first on English blue-grass; first on red clover; first on crimson clover;

rice pop-corn; first on peck yellow onions; first on largest pumpkins; second on lot celery; second on lot parsley; second on lot parsnips; first on lot cabbage; second on lot lettuce.

Sunny Brook Farm, Topeka, won second on summer squash.

Leona Orme, Topeka, won first on golden pop-corn; first on display pop-corn; first on peck any variety potatoes; first on summer squash; first on peppers.

Jno. Weber, Topeka, won first on sorghum, six stalks.

L. L. Martin, Ottawa, won first on flax.

C. H. Poponoe, Topeka, won first on German millet.

Jno. McNoun, Topeka, won second on lot egg plants; first on parsley; first on lettuce.

Berryton Grange won first on red Kafir-corn; second on peck late potatoes; second on peck yellow onions; first on peck red onions; first on peck tomatoes, any variety; first on Hubbard squash; second on largest pumpkin.

P. H. Pugh, Topeka, won second on peck red onions.

W. A. Luthy, Topeka, won first on largest watermelon.

V. B. Howey, Topeka, won first and second on Essex rape.

J. P. Road, Topeka, won first on Irish potatoes; second on tomatoes, any variety; second on lot cantelopes.

U. C. Linge, Topeka, won second on peck sweet potatoes; second on lot beans.

Sam Neisweinder, Topeka, won second on largest melon.

Orville Frake, Topeka, won second on largest watermelon; second on lot carrots.

On county exhibits, Shawnee County

**REGISTERED PERCHERONS.**

Coachers, Saddlers, Big Mammoth Jacks and Jennetts. Yaffi head of Percheron stud and King Jumbo at head of Jennett herd. More prizes won at Missouri State Fair 1904-5 than any other breeder.

**S. A. SPRIGGS, Westphalia, Kansas.**

Henry Fisher, Topeka, won first on Flemish Beauty.  
Geo. Groenmiller, Pomona, Kan., won first on Duchip.  
J. A. Courter, Topeka, won second on Duchip.

**QUINCES.**

W. W. Gilmore won first on Rea's Mammoth.  
N. W. Lanbach, Topeka, won first on Orange.

**CRAB APPLES.**

W. W. Gilmore won first on Hyslop.

**GRAPES.**

One entry—W. W. Gilmore.

**COUNTY FRUIT EXHIBIT.**

Shawnee County, first, and Franklin County (though not entered), very highly commended by the judges.

**SPECIALS.**

I. M. Blitz prize, Thompson Bros. prize, and H. B. Heward prize, all won by W. W. Gilmore.

**PANTRY STORES.**

Mrs. F. L. Bogg, Topeka, won first and second on best loaf wheat bread; first and second on dozen light rolls; first on

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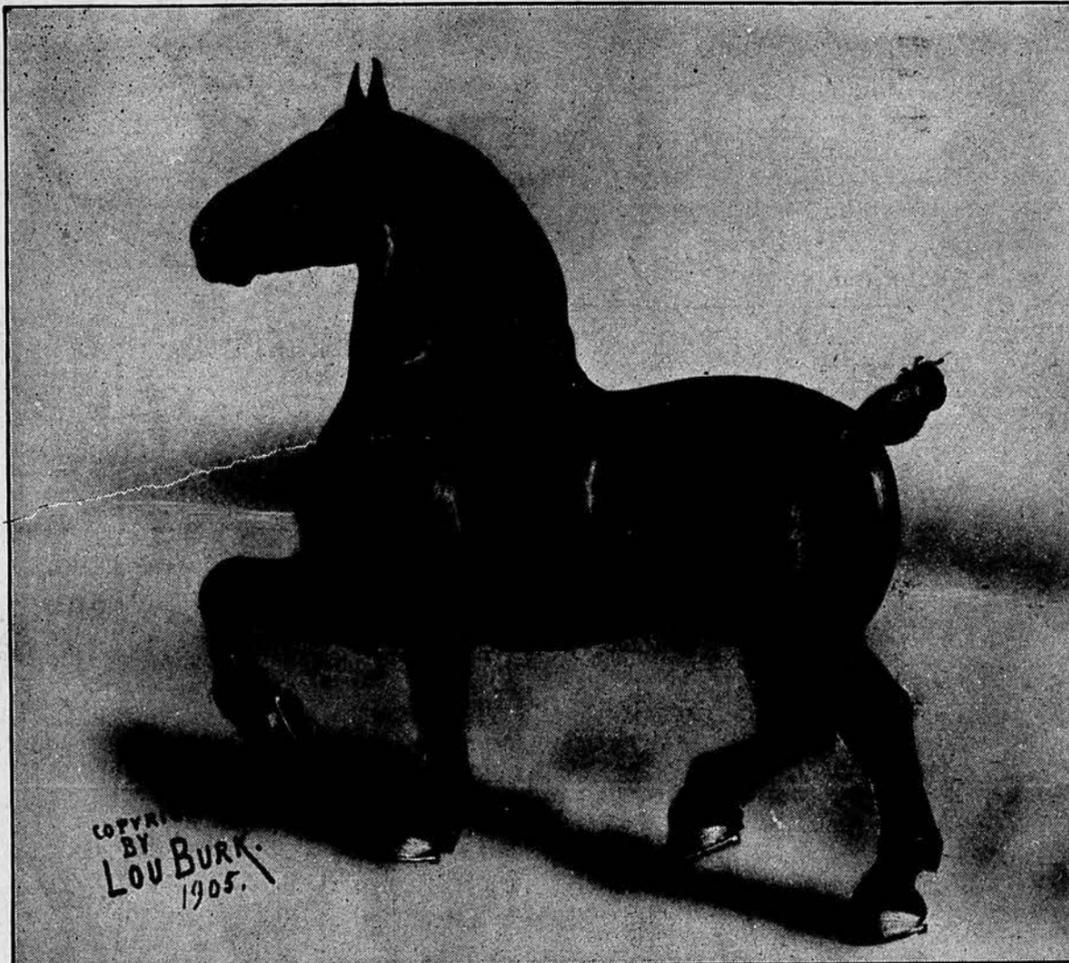
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East Beatrice, Neb.  
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Black, 6 Years Old, Weight 2,200 Pounds. Winner of First Prize in Class and Grand Champion Percheron Stallion at Kansas State Fair, Topeka, 1905. Owned and Exhibited by J. W. & J. C. Robison, Towanda, Kans.

first on cow-peas; first on Alsike clover; first on alfalfa; first on millet; second on German millet; second on orchard-grass; first on cotton plants; second on Kafir-corn; first on collection of grasses, sedges and clover, correctly labelled; first on collection of grain in straw; second on marrow squash; first on lot egg-plants; second on lot cucumbers; first on lot peppers; second on Kansas-grown tobacco; first on display Kansas hemp.  
W. E. Bartholomew Mound City, Kans., won second on mixed dent corn; first on yellow dent corn; second on best display field corn; second on best display sweet corn, several varieties; first on red winter wheat; first on rye; first and second on red oats; second on flax; first on timothy; first on blue-grass; second on English blue-grass; second on red clover; second on alfalfa; first on orchard-grass; first on Kafir-corn; first on penclaria; second on collection grasses, clovers, sedges, all correctly labelled; second on collection grain in straw; second on peck mangel-wurzel; second on peck sugar-beets; second on lot cabbage.  
C. E. Hildreth, Altamont, won first on yellow dent corn.  
C. H. Riker, Topeka, won second on yellow dent corn; second on penclaria; first on peck of sugar beets.  
E. W. Dunham, Topeka, won first on white dent corn, 20 ears, and F. F. Stewart, Topeka, won second on same.  
William Maritz, Topeka, won first on peck mangel-wurzels; second on Hubbard squash; first on lot carrots; first on lot turnips.  
John Troutman, Topeka, won second on sweet-corn; second on sorghum, 6 stalks; first on lot cucumbers.  
N. R. Whitney won first on rice pop-corn; 20 ears; first on pack sweet potatoes; second on peck white onions; first on marrow squash.  
Geo. Harold won second on peck Irish potatoes; second on lot salsify.  
Henry Holrig, Topeka, won second on

won first; Franklin County, second, and Linn County, third.  
N. R. Whitney won second on collective exhibit of vegetables.  
**COLLECTION EXHIBIT.**  
W. W. Gilmore won first and W. A. C. Moore, second.  
**AGRICULTURAL SPECIALS.**  
W. W. Gilmore won first on Taylor Grain Company's wheat, and first and second on Taylor's corn, and second on Samson's corn.  
N. E. Bartholomew won second on Taylor's wheat, and first on Samson's corn.  
C. E. Hildreth won second on Kansas Farmer prize.  
In Juvenile contest, Leona Orme won first, and Orville Frake, second.  
**APPLES.**  
W. A. C. Moore won first on plate Ben Davis; first on plate Bell Flower; first on plate Tulpehoken; second on plate Wine Sap.  
S. G. Bell, Topeka, won second on plate Ben Davis; second on plate Grimes Golden; second on plate York Imperial.  
W. W. Gilmore won first on Gano; first on Grimes Golden; first on Jonathan; first on Little Red Romanite; first on Northern Spy; first on Rambo; first on sweet apple; first on Wagoner; first on Willow Twig; first on Winesap; first on York Imperial.  
Berryman Grange won first on Jonathan.  
**PEACHES.**  
W. W. Gilmore won first on Health Cling; first on Seedling.  
W. A. C. Moore won second on Heath Cling and first on Salway.  
**PEARS.**  
W. W. Gilmore won first on Bartlett; second on Kelfer, and second on Seedling.  
Berryton Grange won first on Kelfer, and first on Seedling.

dozen cinnamon rolls; first on layer cake; second on apple-butter.  
Mrs. W. V. Copeland won second on graham loaf; first on canned pears; first on canned grapes; first on plum-butter.  
Mrs. J. A. Courter won first on graham loaf; second on canned peaches; first on preserved apples and first on cucumber pickles.  
Mrs. Geo. Johnson won first on salt-rising bread; first on nut cake; first on doughnuts; first on ginger cookies, and first on sugar cookies.  
Mrs. Dell Riker won second on layer cake; second on sugar cookies; second on canned pears; first on canned plums; first on canned gooseberries; first on canned crab-apples; first on canned strawberries; first on canned blackberries; first on canned apricots; first on canned currants; first on best exhibit canned fruit; first on apple-butter; first on peach-butter; first on raspberry jam; first on apple jelly; first on crab-apple jelly; first on grape jelly; first on plum jelly; first on gooseberry jelly; first on currant jelly; first on blackberry jelly; first on raspberry jelly; first on strawberry jelly, and first on exhibit of jellies.  
Mrs. W. L. Bates won first on canned peaches; second on plum butter; second on grape jelly; second on crab-apple jelly; first on currant jelly.  
Mrs. Hannah L. Davis won second on canned plums; second on canned gooseberries; second on canned strawberries; second on canned blackberries, and second on canned grapes.  
Mrs. S. G. Bell won second on canned blackberries; first on blackberry jam, and second on apple butter.  
**WOMAN'S DEPARTMENT—EDUCATIONAL.**  
Best specimen of clay modeling from manual training department Kansas public schools—Topeka public schools won first, second and third.

**SPECIAL HOME-SEEKERS EXCURSIONS**  
OCT. 17, AND NOV. 7.  
On the above dates special homeseekers' excursion rates have been authorized from Ohio and Mississippi gateways to points reached by the Southern Railroad and Mobile & Ohio Railroad. Round trip tickets will be sold at the remarkably low rate of 80 per cent of the standard one-way rate—less than half fare for the round trip. These excursions present exceptional opportunities to homeseekers to personally inspect the rapidly growing South, and to choose homes which are the best in the United States.  
**LANDS ARE CHEAP**  
Full information concerning properties, business openings, rates, etc., upon request.  
M. V. RICHARDS,  
Land and Industrial Agt., Washington, D.C.  
CHAS. S. CHASE, M. A. HAYS,  
Agt. Land & Ind. Dept. Agt. Land & Ind.  
623 Chemical Bldg. Dep. 225 Dearborn St. Chicago  
St. Louis.



**U.M.C.**  
**METALLIC CARTRIDGES**  
**Serious Business**  
facing a bear without U. M. C. cartridges in your gun. They have terrific striking force and are sure fire. Buy of your dealer.  
U. M. C. cartridges are guaranteed, also standard arms when U. M. C. cartridges are used as specified on labels.  
**THE UNION METALLIC CARTRIDGE COMPANY**  
BRIDGEPORT, CONN.  
Agency: 313 Broadway, New York

Best specimen wood carving from public schools—Topeka public schools won first and second.  
Best exhibit from manual training department of Kansas public institutions—State Industrial School for Boys won first; Topeka public schools, second.  
Best specimen needlework from any Kansas public institution—State Industrial School for Boys won first.  
Best article furniture made and exhibited by manual training student—State Industrial School for Boys won first.  
**FLORICULTURE.**  
Best and most artistically arranged bouquet living flowers—Mr. Hayes, Topeka, won first; West Side Forestry Club, second.  
Best and most artistically executed design in living flowers—Mr. Hayes won first; also first on special display palms.  
Best and most artistically arranged fancy basket cut flowers—West Side Forestry Club, first.  
Best and most tasteful display cut flowers, not less than 15 species—West Side Forestry Club, first.  
Best collection cut tea roses different colors—West Side Forestry Club won first.

**POULTRY AWARDS.**

Barred P. Rocks—Old birds, first pen, A. H. Miller, Bern, Kan.; second pen, Otis Challo, Topeka. Young birds, first pen, Milo Emery, Overbrook, Kan.; second pen, J. K. Thompson, Topeka.  
White P. Rocks—Old birds, first pen, Mitchell Bros., Valley Falls, Kan.; second pen, W. L. Bates. Young birds, first pen, Mitchell Bros.; second pen, W. L. Bates.  
Buff P. Rocks—Old birds, first pen, Mrs. G. H. Garrett, North Topeka, Kan.  
Silver Laced Wyandottes—Old birds, first and second pens, W. R. Comestock, Topeka. Young birds, first and second pens, W. R. Comestock.  
White Wyandottes—Old birds, first pen, W. L. Bates. Young birds, W. L. Bates.  
Black Langshans—Old birds, first and second pens, R. C. March, Topeka. Young birds, first pen, R. C. March; second pen, E. C. Fowler, Topeka.  
S. C. White Leghorns—Old birds, first pen, M. A. Chesney, Topeka.  
S. C. Brown Leghorns—Old birds, first pen, W. A. C. Moore, Auburn; second pen, Otis Challo, Young birds, first pen, Harold Loucks, Topeka; second pen, W. A. C. Moore.  
W. F. Black Spanish—Old birds, first pen, M. A. Chesney.  
Rhode Island Reds—Young birds, first pen, R. B. Steele, Topeka; second pen, Mrs. Joe Roe, Topeka.  
Bronze Turkeys—First pair, J. A. Courter, Topeka.  
Pekin Ducks—First pair, J. A. Courter; second pair, W. A. C. Moore.  
Indian Runner Ducks—First on old pen, and first on young pen, O. C. Sechrist, Meriden, Kas.  
Brown China Geese—First on old pen and first on young pen, O. C. Sechrist.  
Best display of Pigeons—First, Isaac Sheetz, North Topeka; second, Challo Spurrer.  
Best display Pet Stock—First, Miss Emma Docker, Tecumseh; second, Mrs. M. M. Wright, Topeka.  
Heaviest Pair of Fowls in American Class—Mrs. M. M. Wright.  
Best Display Capons—Mrs. L. T. Whitaker.  
Buff Cochlin Bantams—First pen, Otis Challo; second, Harold Loucks.  
B. B. K. Z. Bantams—First pen, Otis Challo.  
Red Bourbon Turkeys—First pen, Dan English, Purcell, Kans.  
Best Incubator in Operation—First, "The Old Trusty," M. M. Johnson, Clay Center, Nebr.; second, "The Queen," Pinkerton Mfg. Co., Lincoln, Nebr.  
Best Brooder in Operation—First, M. M. Johnson; second, Pinkerton Mfg. Co.

**Fair Notes.**

Prof. Oscar Erf, of the Dairy Husbandry department of the Kansas State Agricultural College, covered himself with glory during the week. The machinery for the model dairy was loaned by the Creamery Package Company of Kansas City, and the Jensen Manufacturing Company of Topeka. This machinery was all put in place and in running order on Monday of fair week and the work was done by Professor Erf, assisted by three students who had had no previous experience in dairy construction. The model dairy ran smoothly throughout the week under the supervision of Professor Erf and proved a great object-lesson to the thousands of visitors at the fair.  
During the week a four-days butter contest was conducted under the direction of Professor Erf. This was for farmers on grade cows, pure-bred cows being excluded. The contest was rendered possible by the liberality of the fol-

lowing named enterprising business firms who contributed the funds given in the special premiums: DeLaval Separator Company, Chicago and New York; Empire Separator Company, Bloomfield, N. Y. and Kansas City, Mo.; John Deere Plow Company, Separator Department, Kansas City, Mo.; Blue Valley Creamery Company, St. Joseph, Mo.; Continental Creamery Company, Topeka, Kans.; C. T. Wells Produce Company, Arkansas City, Kans. The model dairy was a great feature of the fair of 1905 and the thanks of all who are interested in dairy matters are certainly due to the business firms above-named, for their cooperation and assistance.  
But three college students entered in the butter-makers' contest. Special premiums were offered to the Kansas Agricultural Student showing the greatest proficiency as a butter-maker. The scores of each are as follows: H. P. Desler, 93; T. Suzuki, 91 1/4; G. M. Caldwell, 90 1/4. The first prize of \$10 was given to Mr. Desler, and the second prize of \$5 was given to Mr. Suzuki who is a Japanese student of the Agricultural College.

The butter awards for five-pound pails of dairy butter were as follows: First to M. H. Brobst of Topeka, score 92 1/2; second to Springbrook Farm, North Topeka, score 92. In five one-pound prints, dairy butter: First to Springbrook Farm, score 95 1/4; second to Mrs. J. P. Tice, score 94 1/4. The judge in commenting on these exhibits remarked that the prize-winners in the contest for one-pound prints showed some of the best butter that he had sampled in a long time.

In a four-days butter contest for grade cows, the cow Irish Widow, a grade Holstein, gave 134 1/2 pounds of milk with a total of 4.62 1/2 pounds of butter-fat. The cow Katy, a grade Jersey, gave 66 1/2 pounds of milk with a total of 3.27 of butter-fat. These cows are the prize-winners and are both owned by A. J. White of Topeka. Katy had been milking about six months and Irish Widow was fresh.

The Topeka Street Railway Company is to be congratulated on the facility with which they handled the crowds at the fair. On the big days before the rain interfered their service was very efficient. Their trains were made up of three cars each which ran to the fair grounds gate at five-minute intervals and the company was abundantly able to handle all the traffic demanded of them.

The John Deere Plow Company of Kansas City made a handsome exhibit of Sharples Separators, operated by one of their gasoline engines in the dairy building. They also had one of the gasoline engines cut in sections so as to show its interior mechanism. Near the dairy building they had a large tent in which was shown their display of agricultural implements in operation and propelled by another of their gasoline engines. They furnished the motive power that operated the model dairy as well.

The model dairy was operated by gasoline-engine power though the steam generated for use in cleaning the vessels and machinery in operating a turbine separator, and the starter was furnished by the Jensen Manufacturing Company of Topeka, from which one of their boilers made for use in skimming-stations and creameries.

The daily parade of the 101 Ranch Wild West Show proved a source of never-fading interest. This parade was headed by one of the Miller brothers, who was followed by the Indians dressed in their war bonnets and paint, the old-time stage coach drawn by four mules, a large number of cow-boys and the trained steer ridden by one of the cow-boys. The parade was a long one and had the merit of being the real thing. Visitors to the 101 Show were highly complimentary in their remarks about it.

The air-ship which was so much advertised, failed to make a voyage during the week. This, however, was wholly due to the stormy weather, according to the statement of the "captain." This captain of the air-ship, by the way, bears the name, LaFollette, and is a relative of the Governor of Wisconsin. Steele Bros., of Belvoir, Kans., are out this year with a show herd of Herefords that carries them into the money wherever they go. At the Nebraska State Fair they were large winners, and last week at Topeka their string of ribbons was a very creditable one. Our report of awards will give the details.

T. K. Tomson & Sons have gotten a habit of winning prizes with their young herd of Shorthorns. At the Nebraska State Fair they covered themselves with glory and at Topeka last week the get of Gallant Knight maintained his reputation in some very warm competition.

The Kansas State Agricultural College brought down a string of pure-bred cattle of different breeds in order that the breeders who could not visit that institution might have some idea of what they were really doing for the advancement of the cattle industry of the State. Among the animals brought by the college was their Shorthorn herd bull, Ravenswood Admiralty 186157, who won first prize in class. They also showed College Mary, a heifer calf, who won first in class. In addition to the Shorthorns shown they had a number of Ayrshire cows which are very popular as milkers in other sections of the country, but are comparatively little known in Kansas.

Prof. R. J. Kinzer of the Animal Husbandry Department of the Agricultural College, J. A. Larson, Everest, and Andrew Pringle, Eskridge, judged the beef-cattle classes at the fair. Mr. Geo. W. Berry of Emporia, judged all the swine classes, and Mr. J. B. Zinn of Topeka, judged the dairy cattle.

Mr. George Drummond of Elmdale, Kans., was an exhibitor of Aberdeen-Angus cattle for the first time. He got in the money with his yearling bull, Diamond Creek David, and with his aged cow, Delia 14th. He has some finely-bred cattle and showed them in good breeding condition though not specially fitted for the showing.

The breeders of Red Polled cattle made a strong showing this year. George Groenmiller & Son of Pomona had a strong herd and got their share of the ribbons. Mr. J. B. Davis of Fairview, who is widely known as a breeder of Duroc-Jersey swine, made his first exhibition of Red Polled cattle at this fair and succeeded in carrying away some ribbons with him.  
This year the Polled Durhams showed

in greater numbers than ever before. Two strong Kansas herds belonging to D. C. Van Nice of Richland and C. M. Albright of Overbrook were in competition with each other and an Iowa herd. Mr. Van Nice showed in every ring and got a ribbon every time he showed. Albright's herd bull, Duke of Rose Pomona 2d was a winner in the aged-bull class. Speed F. Hughes, cashier of the Bank of Topeka, has lately bought a herd of Holstein-Friesian cattle of which he is very proud. A few of these were brought to Topeka and shown in the State Fair. The bull calf won first prize, and the two heifers, 1 and under 2 years got first and second, while he secured first on heifer calf, and got of sire. His first prize bull was also junior champion of the fair. He probably has some reason for the pride he takes in his herd.

The hog show this year was the greatest ever made in Kansas. Between 400 and 500 head of the four different breeds were in competition and they were practically all good ones. Manwaring Bros., of Lawrence made the best show they have ever made. Their Berkshires have long been known through the sales State and the satisfaction which has always attended them. They are not accustomed to showing at fairs and it is a matter of considerable credit that they were able to carry away the blue ribbon on their yearling boar King Forrest who also won the grand championship of the show.

F. A. Dawley of Waldo was present with a bunch of Poland-Chinas that did him credit. Mr. Dawley is a graduate of the State Agricultural College and since leaving that institution he has devoted his attention to breeding Poland-Chinas. He spares neither pains nor expense in securing just the breeding animals he needs for his herd and some of the results he has obtained were shown in their exhibit at Topeka. He got first and second on 6-months boar, second on 6-months sow, first on sow pig in very hot competition. The Poland-China show this year was probably the best in every way that was ever made in Kansas and honors won here will be valued accordingly.

**Grand Island Route Sleeping Cars.**

Beginning with Sunday, September 24, the St. Joseph & Grand Island Railway adds to the equipment of its night trains Nos. 1 and 2, Pullman standard buffet sleeping cars. These cars run between Kansas City and Grand Island, and make these trains strictly first-class and up-to-date in every respect. These trains are no longer to be "mixed" trains between Hanover and Grand Island, with the result of materially reducing the time between Kansas City, St. Joseph and all points West.

Dietrich & Spaulding were present with their prize-winners. Of course they won first prize on their boar Grand Perfection and afterwards tied the grand championship ribbon on the same hog. This boar was a winner at the Iowa State Fair this year. This firm also won first on 6-months boar, first on 6-months sow, first on produce of sow bred by exhibitor, first on young herd, first on produce of sow, first on get of boar, first on get of boar bred by exhibitor and the grand champion boar as mentioned.

**\$1.50 to Fort Scott and Return—Account W. O. W.**

On September 28, the Missouri Pacific will run special train from Topeka to Ft. Scott and return, leaving Topeka at 7 a. m., and Ft. Scott 10 p. m., rate \$1.50 for the round trip.

**O. I. C. SWINE**

Choice young stock of both sexes for sale at very low prices.  
S. W. ARTZ, LARNED, KANS.

**Special Want Column**

"Wanted," "For Sale," "For Exchange," and small want or special advertisements 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.

**CATTLE.**

**FOR SALE**—10 Registered Galloway bulls, cheap. J. A. Darrow, Route 3, Millvale, Kans.

**FOR SALE**—Eight good, registered Shorthorn bulls, four straight Cruickshank, good ones, and prices right. H. W. McAfee, Station C, Topeka, Kansas.

**FOR SALE**—One straight Cruickshank bull, 14-months-old, dark red, extra good animal. H. W. McAfee, Topeka, Kansas.

**REGISTERED GUERNSEY BULLS**—Ready for service. Also pure-bred Scotch Collie puppies. Dr. J. W. Perkins 422 Altman Bld., Kansas City, Mo.

**FOR SALE OR TRADE**—Registered Shorthorn cows and heifers, \$40. R. J. Smith, Holton, Kansas.

**FOR SALE**—30 head of steers, fat cows and calves; 24 head of yearling and sucking mules. Can pasture till Oct. 15. R. B. Irwin, Modoc, Scott Co., Kans.

**HOLSTEINS**—Bull calves—you can finish raising them cheaper than I can. Also occasional high grade cows and heifer calves—the flower of a dozen-year's culling, to make room for thoroughbreds. H. B. Cowles, Topeka, Kan.

**FOR SALE**—My entire herd of Reg. Shorthorns, consisting of Ruby's Elizabeth and Rose Sharrons, choice individuals, 10 cows, 3 2-year-old heifers, 4 yearling heifers, 5 spring heifers and 6 bulls. Red Sirius heads herd and a splendid herd bull. These cattle have been carefully bred and someone will get a bargain in them at \$40 per head. Address, W. L. Heineken, Nortonville, Kansas.

**RED POLLS**—6 pure bred Red Polled bull calves, from 5 to 7 months old. Also two excellent yearling bulls. Write for prices and full description, or visit us. CHARLES FOSTER & SON, Butler Co. R. F. D. 4. El Dorado, Kansas

**SWINE.**

**FOR SALE**—Say! I have some fine, big-boned, broad-backed Berkshires, brood sows or pigs. Want some? Write me; turkeys all sold. E. M. Mcville, Eudora, Kans.

**80 DUROC-JERSEY SPRING BOARS**—Large body, growthy heavy bone, and good feed and color. Price low. A. G. Dorr, Route 5, Osage City, Kansas.

**HERD BOAR FOR SALE**—Sired by Kansas Chief 28250, dam Lady White Foot 21 66924. A good individual and a No. 1 breeder. J. W. Potter, Hope, Kansas.

**FOR SALE**—Three Poland-China boars ready for use. Pedigreed. H. W. McAfee, Topeka, Kas.

**LARGE English Berkshires** from best registered blood. \$18.00 to \$25.00. Early spring farrow. A. M. Ross, Cedarvale, Kans.

**FOR SALE**—Fashionably bred Duroc-Jersey boars 5 farrowed January 22d, weight 250 lbs., the finest fellows you ever saw—right color, short head and nose, nice ear, good feet, litter 10, none better. Also 20 young ones April farrow, weighing about 125 lbs., perfect color. I also have 40 beautiful gilt April farrow, the nicest ones you ever saw—some of them show pigs. Also seven young sows bred for October farrow, to one of the best boars in Kansas, all for sale cheap. Tell me what you want, I will price them to you with the understanding if they are not the best ones you ever saw for the money send them back and get your money. Reference, Kansas Farmer. Address J. W. Ferguson, R. F. D. No. 1, Topeka, Kansas.

**SHEEP.**

**REGISTERED SHROPSHIRE RAMS** For sale, all good ones. Want to buy one head flock. J. B. Keeley, Sterling, Kansas.

**HORSES.**

**FOR SALE**—Or trade for young cattle or land, a 4-year-old brown Registered Coach Horse Stallion broke to drive. Inquire at Henry Flach, R. F. D. No. 2, Maple Hill, Kansas.

**FOR SALE** or trade, one large, black jack, 16 1/2 hands high, weight 1150 lbs. Sure foal getter; also one trotting stallion, sure breeder. Thos. Brown, Palmer, Kansas.

**LOST OR STRAYED**—Brown mare, weight 1100 pounds, white spot in forehead, barb wire cut on side, somewhat sway backed. Suitable reward for return. J. W. Gillard, 836 Highland ave., Topeka.

**HORSE FOUND**—On my ranch at time of purchase, a young horse, dark gray, shading to roan, about 15 hands high, weight not far from 1100 pounds, no distinguishing marks. I was informed that he had been on the place about six months and not advertised. W. B. Williams, Logan Co., 8 miles S W. of Winona.

**FARMS AND RANCHES.**

**KANSAS LANDS**—I have a choice lot of well improved farms in Marion County, varying from \$20 to \$50 per acre. Also large list of Western Kansas lands. For full particulars, address, A. S. Quisenberry, Marion, Kans.

**200 ACRE WELL IMPROVED FARM** for \$3,200, to close an estate. Address Hurley & Jennings, Emporia, Kans.

**FOR SALE**—A good farm of 320 acres in Anderson County, Kansas, main line Missouri Pacific railway, R. F. D., near to school and church, American community, good improvements; \$22.00 per acre. A bargain. Address O. J. Prentice, 156 Wabash avenue, Chicago.

**CHEAP HOMES**—80 acres, 60 acres bottom, \$1-800. 160 acres, well improved, \$3200. 320 fair improvements, \$4500. 480 fine improvements, \$10000. Write for list, to Florence, Salina or Minneapolis, Kansas. Garrison & Studebaker.

**FIFTY farms** in Southern Kansas, from \$15 to \$70 per acre, can suit you in grain, stock or fruit farms. I have farms in Oklahoma, Missouri and Arkansas for sale or exchange. If you want city property, I have it. Write me. I can fix you out Wm. Green, P. O. Box 966, Wichita, Kans.

**LAND FOR SALE** in Western part of the great wheat State. H. V. Gilbert, Wallace, Kans.

**IF YOU WANT** to buy, sell or exchange a farm or business anywhere, write for our lists. O'Meara Land Co., Onaga, Kans.

**MISCELLANEOUS.**

**"THE CEMENT WORKER'S HAND BOOK"** Tells you how to do all kinds of cement work successfully, walls, floors, walks, tanks, troughs, cisterns, fence posts, building blocks, etc., etc. Second edition. Sold in all English-speaking countries. Sent no any address for 50c. Address, W. H. Baker, Seville, Ohio.

**FOR SALE**—Second-hand engines, all kinds, and all prices; also separators for farmers' own use. Address the Getser Mfg. Co., Kansas City, Mo.

**WANTED**—Your apples to grind. I do custom work every Saturday at my mill on West Sixth st. H. W. McAfee, Topeka, Kansas.

**FREE**—Souvenir postals from all the world. National Clearing House, Copp Bldg., Los Angeles, Cal.

**FOR SALE CHEAP**—Well drill good as new, for horse or steam power, capacity 700 feet. Grant Ewing, Blue Rapids, Kansas.

**THE LITTLE GEM CREAM TESTER** does the work as accurately as a \$100 machine. Every farmer should have one to ascertain the exact amount of butter fat in each cow's milk and protect his own interests when selling milk to creameries. Delivered to any address on receipt of \$1. Gem Manufacturing Co., Box 116, Oswego, Kansas.

**WANTED**—Man and wife by the year on a farm. Man must be honest and good workman. House and garden furnished. Good place for right party. Address, Viles Plantation, Medora, Kansas.

**FALL BARLEY**—\$1.00 per bu. f. o. b. Seed came from Tenn. 2 years ago. J. R. Reid, South Haven, Kans.

**Stray List**

Week Ending September 14, 1905.

Johnson County—Rosco Smith, Clerk.  
**HOG**—Taken up by A. Owen, in South Park, Merriam P. O., Sept. 4, 1905, one black male hog; weight, 150 pounds; scar on hams and notch in right ear.

**PATENTS.**

**J. A. ROSEN, PATENT ATTORNEY,**  
418 Kansas Ave., Topeka, Kans.

**The Veterinarian**

We cordially invite our readers to consult us whenever they desire any information in regard to sick or lame animals, and thus assist us in making this department one of the interesting features of the Kansas Farmer. Give age, color and sex of animal, stating symptoms accurately, of how long standing, and what treatment, if any, has been resorted to. All replies through this column are free. In order to receive a prompt reply, all letters for this department should give the inquirer's postoffice, should be signed with his full name, and should be addressed to the Veterinary Department, Kansas Farmer, Topeka, Kans., or Dr. C. L. Barnes, Veterinary Department, K. S. A. C., Manhattan, Kans.

**Ailing Calf.**—My 3-months-old calf pants and lolls day and night; has been ailing for four weeks; is running with cow. I lost one I was feeding by hand, with the same disease. I would like some information.

**Answer.**—I would advise giving a physic of half a pint of raw linseed oil and then give a little tonic as a drench, a teaspoonful of the following: Aromatic spirits of ammonia, 2 ounces, tincture of nux vomica, 1 ounce, tincture of ginger, 2 ounces, tincture of gentian, 1 ounce. Mix and give a teaspoonful in a pint of water once daily.

**Mare Breathes Hard.**—I have a good strong mare, now with foal, that got a little overheated this summer, and when on the plow she blows and pants hard all the time; she does not seem to tire out, and breathes naturally when not working. She has been worked steadily all summer; runs on wild pasture at night; is fed 4 quarts bran and corn-chop three times a day with small amount of alfalfa hay at noon. She is in good condition but not fat. What treatment would you recommend for this mare, something that will not injure the foal?

**Ellsworth, Kans. A. A. P.**  
**Answer.**—Use a stimulating liniment on the mare's neck daily. We can send you a condition powder directly from the veterinary department which would doubtless be beneficial for the mare.

**Injured Eye of Horse.**—I have a 3-year-old horse that, when a colt, got nearly all of the upper eyelashes cut off, I suppose on a barb-wire fence; it left a small, white place on the back part of the eyeball; the sight seems all right, but since I have been working him the whitish place has begun to grow; the eye matterates a good deal, and he keeps it closed most of the time. Some say he has "blind teeth." Do blind teeth affect or hurt horses' eyes?  
**Kimball, Kans. J. M. C.**

**Answer.**—"Wolf teeth" or "blind teeth" mean nothing, as horses that do not have them go blind, and horses having these teeth remain sound all their lives; there is nothing in it. We have an eye preparation that we use on animals in our veterinary practice at the college, on just such cases as your horse.

**Ailing Cow.**—I have a Jersey cow, fresh about two months ago; she eats and drinks all right, but makes a low, bawling noise like a bull; sometimes she makes the noise at every breath, then will stop for a half day at a time, then commence again. I thought the trouble was in her throat so rubbed it with lard and turpentine, but it did no good. I gave her two doses of salts and soda. What can I do for her?  
**Halstead, Kans. W. E. M.**

**Answer.**—I believe a stimulating liniment will be beneficial in removing the trouble. You can get such a liniment at any drug store.

**Ailing Shoats.**—I have about a dozen shoats that have been running on alfalfa, and are fed milk and slops and a little soaked corn, with plenty of good well-water. They are weak in the back, and drag the hind parts, but have good appetites. Can you tell the cause of trouble and remedy?  
**Jewell, Kansas. C. W. W.**

**Answer.**—Your shoats are getting too much corn for the amount of bone that they have. Lessen the amount of corn and use more oats and bran;

and with a little of our pig condition powder, which we can send direct from our veterinary department, I believe the hogs will make a good recovery.

**Lame Horse.**—I have a horse that has a bad foot; at first it was inflamed and was lame; then it swelled badly clear to his body; the swelling went down some, then the hoof began to come off. Please tell me what to do for him.  
**Haddam, Kans. R. B. P.**

**Answer.**—Your horse evidently bruised the foot, starting an inflammation in the sensitive part of the foot, and pus formed, causing a loosening of the wall of the foot. The best thing to do is to use disinfectants on the foot, and let the hoof grow out.

**"Knuckles Down."**—I have a fine pacing mare that "knuckles down" on her hind feet, especially when being ridden down hill; she seems to catch her toe in some way. She is shod with plates; is there any special method of shoeing or any other procedure that would tend to correct this?

**Answer.**—Straightening the ankles of the mare will do more to prevent the knuckling than anything else; this can be done by using a stimulating liniment, with considerable rubbing daily.

**Colt With Swelling on Ankle.**—I have a suckling colt that has a swelling on left front ankle; it seems to be in the flesh or cords; it is not hard and dry; pressing on it does not seem painful; he limps at times when on the road. I have been using liniments, which seem to do no good. Our veterinarian wanted to "fire" or blister it. Some say it will disappear in time. He has had it about nine weeks.

**Hope, Kans. H. F. R.**  
**Answer.**—Probably a blister lightly applied over the swelling will be very beneficial for your colt. It will do no harm to try it.

**The Poultry Yard**

CONDUCTED BY THOMAS OWEN.

**Poultry at the State Fair.**

The display of poultry at the State Fair was larger than last year, but still it was not nearly so large as it ought to have been. At the Nebraska State Fair, the week previous, we are told they had 2,000 birds on exhibition—five times as many as we had. They have the State to back them and of course can afford better premiums than we can. Their State is not so rich as our State but it is more liberal to the agricultural and live-stock interests than Kansas. Our State could well afford to appropriate \$50,000 a year for the State Fair.

The Barred Plymouth Rocks, as usual, were the largest class, over a hundred in competition. A. H. Miller, Bern, Kans., had a fine display of old birds, easily winning the blue ribbons, while the red was captured by Otis Challand, of Topeka. In young birds, Milo Emery, of Overbrook, Kans., had the winning pen, and J. K. Thompson, of Topeka, the second.

In White Plymouth Rocks, the fight was between Mitchell Bros., of Valley Falls, and W. L. Bates, of Topeka. Mitchell Bros. took first on old birds, handily, and Bates second. In young birds, it was almost a tie, Bates having the best pullets and Mitchell Bros. the best cockerel. On account of the cockerel being half the pen, the blue ribbon went to Mitchell Bros. and the red to Mr. Bates.

In White Wyandottes, Mr. Bates had extra fine birds in both old and young classes, and captured both blue ribbons.

Mr. G. H. Garrett, of North Topeka, had a fine pen of Buff Plymouth Rocks and was awarded first premium.

W. R. Comstock, Topeka, showed some extra fine Silver Laced Wyandottes and secured all the premiums, two blue ribbons and two red ones, on old and young birds.

R. C. March, Topeka, had some nice Black Langshans, both old and young birds. He secured two blue and one red ribbon. C. C. Fowler, Topeka, had

a very promising pen of young birds which took the second premium.

There was quite a string of Rhode Island Reds, both single and double combed. R. B. Steele took first easily on a pen of fine single combs; Mrs. Joe Roe took second.

Pigeons, as usual, were out in great numbers. Isaac Sheets had 91 on exhibition and Challand & Spurrier, 65. Sheets easily took first premium on best display and Challand & Spurrier, second.

S. C. Brown Leghorns were next largest in numbers to the Barred Rocks. W. A. C. Moore, Auburn, took first premium on old and second premium on young, and Otis Challand second on old, and Harold Loucks, Topeka, first on young birds.

Something new in the way of turkeys was a pen of Bourbon Red turkeys, exhibited by Dan English, Purcell, Kans.

The display of incubators and brooders was much larger and better than usual. The Cyphers Company made a fine display and the Pinkerton Company a smaller one. M. M. Johnson, Clay Center, Neb., had a nice display of Old Trusty incubators and brooders, and captured the blue ribbon for the best incubator in operation, also the blue for best brooder in operation, the Pinkertons taking second. There is no use in talking, Johnson has the incubator that gives results—that hatches chickens, and that is what the people want. He has sold thousands of machines the past season and all have reported remarkably good hatches. The new machine for the coming season will have thicker asbestos walls than the old ones; otherwise the machine will be the same. The principle on which it is made will be the same, for it seems as if it had reached the acme of perfection and could not be improved upon. Their booth was very elaborately decorated and was a thing of beauty, trimmed with fans and flowers and bunting. It was in charge of Mrs. L. K. Whitaker and her sister, and Mrs. Wallace, of St. Joe, Mo., ably assisted them.

Professor Erf, of Manhattan Agricultural College, kindly loaned the poultry department for exhibition; a case containing several bottles which demonstrated the composition of an egg. One bottle contained the amount of protein in the yolk of an egg; another the fat in the yolk; another the protein in the white of an egg; another the ash of an egg, and still another the shell. The food-value of an egg was compared with different meats and with fish. It was a very interesting and instructive exhibit.

A special meeting of the managers of the State Poultry Show was held on Wednesday afternoon in the KANSAS FARMER tent. There were present Prof. L. L. Dyche, president, Lawrence; H. C. Short, Leavenworth; A. J. Kerns, Salina; J. W. F. Hughes, E. C. Fowler, Raymond Atwood, and Thomas Owen, Topeka. Owing to his appointment as Adjutant General of the State and to other duties, Colonel Hughes was obliged to resign the secretaryship of the State show. The management combined the offices of secretary and treasurer and elected Thomas Owen to the position. They are all confident that we would have a big show in January, and voted additional premiums, viz., \$25 in gold to the county or local organization showing the largest number of birds scoring over 90 points; \$15 to second, and \$10 to third, Shawnee County being barred from competition. This, along with liberal premiums of \$10 in gold for first pen, \$5 for second, \$2 for third, and \$2, \$1, and 50 cents on single birds, ought to bring birds by the thousands. The judges are D. T. Heimlich, Jacksonville, Ill.; Adam Thompson, Amity, Mo.; M. S. Fite, Oklahoma City; and K. J. Muir, Chicago. The managers passed a vote of thanks to Colonel Hughes for his long-continued, efficient services as secretary of the show, and wished for his speedy return to harness again.

The State of Kansas is back of the State Poultry Association to the extent of \$1,000 a year, so that the premium money is always assured to the winners. They will get their money before they leave the show-room.

**POULTRY BREEDERS' DIRECTORY**

**FOR SALE.**—Some fine, dark, S. C. B. Leghorn cockerels. The sire of these was First prize cockerel at Parsons, and Fourth prize cockerel at Topeka, 1905. \$1.00 each, \$5.00 for six. Jewell Bros., Humboldt, Kansas.

**WHITE** Plymouth Rock cockerels for sale. Pure white, yellow legs, bayeyes, fine shape. Write for prices, they are right. J. C. Bostwick, R. 2, Hoyt, Kas.

**PURE BRED** Rose Comb Brown Leghorn cockerels and pullets \$1.00 each, 6 for \$4.00. Mrs. John Holzhey, Bendeau, Doniphan Co., Kansas.

**A FEW** Rose Comb R. I. Red cockerels and 2-year-old cocks at \$1.00 a piece if taken before cold weather. Mrs. Cora Churchill, R. 3, Miltonville, Kas.

**FOR SALE.**—A farmer's prices 1 to 40 S. C. Brown Leghorn cockerels for breeding purposes. H. C. Short, Leavenworth, Kansas.

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

**FERRETS.**—Fine young ferrets, with full instructions for handling. Singles, \$3.00. Pair, \$5.00. Roy F. Cope, Topeka, Kans.

**S. C. B. LEGHORNS EXCLUSIVELY.**—Some fine young cockerels and pullets for sale cheap if taken early. J. A. Kaufman, Abilene, Kans.

**EGGS FOR SALE.**—S. C. W. Leghorns, W. Wyandottes; \$1 per 15. W. H. I. turkeys, \$1.50 per 9. Embden geese, \$2.00 each. W. African guineas, \$1 per 17. All guaranteed pure-bred. A. F. Hutley, Route 2, Maple Hill, Kans.

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

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

**TO GIVE AWAY.**—50 Buff Orpingtons and 50 Buff Leghorns to Shawnee county farmers. Will buy the chicks and eggs. Write me. W. H. Maxwell, #21 Topeka Ave., Topeka, Kans.

**BARRED AND WHITE PLYMOUTH ROCK** Eggs, \$2 per 15; \$5 per 45. Hawkins and Bradley strains, scoring 98% to 94%. Mr. & Mrs. Chris Bearman Ottawa, Kans.

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

**SAVE YOUR CHICKS.**

Use the Itumar Mite and Lice Killer, a mite and lice destroyer. Guaranteed to kill mites and lice if properly used. If not satisfied return bottle and label and money will be refunded.

**CHAS. E. MOHR,**  
Clendale Park, Hutchinson, Kansas.

**"A NINE TIMES WINNER"**

Bates Pedigreed Strain of White Plymouth Rocks have been shown in nine poultry shows the past two years and

**Won in Every One of Them!**  
If they win for us, their offspring ought to win for you. Eggs, \$1.50 per 15. Elmwood strain of White Wyandottes also hold their own in the show-room. Eggs, \$1 per 15.

**W. L. BATES, Topeka, Kansas.**

**White Plymouth Rocks EXCLUSIVELY.**

**Good for Eggs, Good to Eat, and Good to Look at**  
W. L. Bates holds 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 **THOMAS OWEN, Sta. B, Topeka, Kans.**

**PIGEONS**

Squab Breeders make money if you start right with large, pure-bred homers that raise large, plump squabs that are in demand. Write us. Satisfactory guaranteed. Glendale Squab Farm, Old Orchard, Mo.

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**SCOTCH COLLIES.**—Scotch Collie pups from registered stock for sale. Emporia Kennels, W. H. Richards, V. S., Emporia, Kans.



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Barred Plymouth Rocks, White Plymouth Rocks, Buff

Cochins, Partridge Cochins, Light Brahmas, Black Langshans, Silver Wyandottes, White Wyandottes, Silver Spangled Hamburgs, Brown Leghorns.

First-class Standard Stock of Superior Quality. Stock For Sale. Eggs in Season. Write Your Wants. Circular Free.

**A. H. DUFF, Larned, Kans.**

## The Apiary

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

### Keeping Bees in Addition to a Poultry Plant.

EDITOR KANSAS FARMER:—I have been raising fancy chickens for twenty years and have often thought that I would like to add an apiary department to my plant. I have been reading all I could find on the subject of bees for some time, but do not feel that I would like to embark in the honey business without first getting the advice of some one with more experience, and you have been recommended to me as the proper authority. Please tell me the best time in the year to start, and what to begin with. How many colonies of bees should I begin with, and what is the probable cost of same? At present I am living on an ordinary city lot, but expect to get more land near the city limits. If you will give me a few pointers I will be very grateful.

R. S. PAXTON.

Shawnee County.

Combined as a business, fancy poultry and beekeeping is becoming very popular, and as a business the two go well together. This is true from the fact that by far the greatest amount of work in the fancy poultry business comes during the winter months, and the apiary work during the summer. To go into the bee business extensively, one could not do much on an ordinary city lot, but would need a suburban place near the city; a few acres would be the proper thing. One may keep a limited stock on a city lot, and, by the way, the bees may be up on an elevated platform, or on the house-roof, entirely out of the way. Bees are often thus kept in large cities, even by the hundreds of colonies, but only where ground is extremely valuable. If one has a fairly good locality for bees, beekeeping is as profitable as poultry-keeping, and will pay a larger profit with a less amount of work or care. Your locality ought to be a very good one for bees, and no doubt is.

To begin with, where one has but little or no experience, it is best to start with few colonies; two or three

## A Living Monument.

If we were to assemble all those who have been cured of heart disease by Dr. Miles' Heart Cure, and who would to-day be in their graves had not Dr. Miles' been successful in perfecting this wonderful heart specific, they would populate a large city.

What a remarkable record—a breathing, thinking, moving monument, composed of human lives,—that for which every other earthly possession is sacrificed.

The Miles Medical Co. receive thousands of letters from these people like the following:

"I feel indebted to the Dr. Miles' Heart Cure for my life. I desire to call the attention of others suffering as I did to this remarkable remedy for the heart. For a long time I had suffered from shortness of breath after any little exertion, palpitation of the heart; and at times terrible pain in the region of the heart, so serious that I feared that I would some time drop dead upon the street. One day I read one of your circulars, and immediately went to my druggist and purchased two bottles of the Heart Cure, and took it according to directions, with the result that I am entirely cured. Since then I never miss an opportunity to recommend this remedy to my friends who have heart trouble; in fact I am a traveling advertisement, for I am widely known in this locality."

J. H. BOWMAN,  
Manager of Lebanon Democrat,  
Nashville, Tenn.

Dr. Miles' Heart Cure is sold by your druggist, who will guarantee that the first bottle will benefit. If it fails he will refund your money.  
Miles Medical Co., Elkhart, Ind.

colonies are perhaps enough. If these are properly attended to, they will increase very fast. Two or three swarms may be expected from each one, during springtime, and they may double this number if the honey season is good, although we could not expect much honey in the way of surplus if we allowed them to swarm at this rate. It is necessary to procure a good work on the subject of bees and their management, and study this, along with our practical work. There are a number of good books, and the beauty of them is, that they all agree on every point connected with successful bee-keeping; they all advocate the same system of handling, also the same make of hives and supplies. The "A. B. C. of Bee Culture," published by the Root Company, of Medina, Ohio, is undoubtedly the best work out, for the reason that they keep it up to date by adding yearly every new thing of value that comes up.

The probable cost of starting with a few colonies as above stated, with all the fixtures necessary to care for them, would be perhaps \$50. This would include all the hives for the new swarms the first year, and all surplus equipment, besides an extractor, smoker, and many other little things. Do not buy a poor stock of bees, but the best and latest improved stock of Italians, all in good hives of the latest standard make. It never pays to begin with a poor stock of bees in bad hives—with the combs all built together, and not in good handling shape—even at a gift.

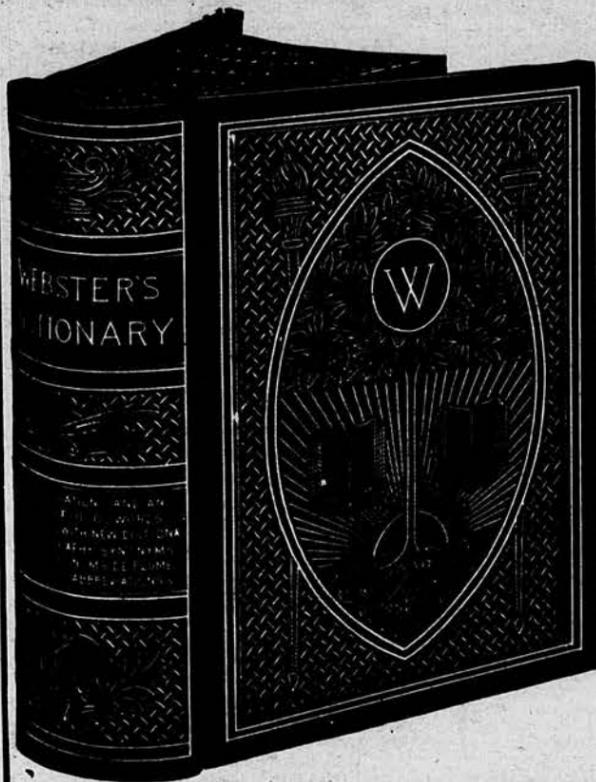
Early spring or autumn is the best time to get bees. They will as a rule cost more in spring than in autumn, but one does not run the risk of wintering, if they are purchased in the spring. March is the month to secure them, providing the weather is mild, but a little too early if March is a cold month.

### The New Use for Sugar.

A new use for sugar is discussed in several English agricultural journals. The process is that of Mr. Wm. Powell, and consists of impregnating wood, used for building, with sugar, to render it harder and more lasting. Mr. Powell's attention was directed to this matter because he has often noticed that in countries where the sugar cane is cultivated, the fibers of the plant when thrown upon the streets, were unfermentable and lasted a long time. The process consists of impregnating green wood with a solution of sugar and afterwards drying it in an oven at a suitable temperature. Wood treated in this way and coming from freshly cut trees, may be advantageously used at once in the construction of furniture, and is then able to suffer the changes of temperature, dryness and damp, without change. The process has the immense advantage of transforming soft woods into hard, which permits their use in place of the latter, and at a much less price. The treatment of woods to be used for building purposes is very simple. They are placed in a solution of 250 kilogrammes of sugar in 450 litres of water, which are then boiled for some time. The mixture is then cooled down to 40° C. During this cooling, the syrup partly penetrates the wood. When the latter is sufficiently impregnated, it is taken out to be dried in a warm air current. After this treatment the sap completely disappears. The saccharine liquor progressively evaporates, and the sugar becomes solidified, forming with the fibers an extremely hard and regular mass. This very simple process permits the use of fresh wood in building. Its great advantage is keeping wood from decay, and preserving it against the attacks of fungi, and, among others, from that of the metal lachrymans, which very often ruins floors and roofs, a catastrophe suddenly produced without any possibility of its being foreseen.—Produce Market Review.

"If a man is naturally bad, education won't make him better." "No, but it will help him to keep out of jail."—Cleveland Leader.

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**COUNTY SEAT HERD DUROC-JERSEY SWINE**  
Geo. Briggs & Son, Clay Center, Neb.  
Young stock for sale.

**DUROC-JERSEYS** - Large-boned and long-bodied kind. A fine lot of spring pigs either sex for sale. Prices reasonable.

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**MAPLE AVENUE HERD** J. U. HOWE,  
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Farm two miles west of city on Maple Avenue

**Duroc-Jerseys**

**FAIRVIEW HERD DUROC-JERSEYS**  
Now numbers 150; all head for our two sales, October, 1905, and January, 1906.

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**GOLDEN RULE STOCK FARM**  
LEON CARTER, Mo., Asherville, Kans.  
Gilt-edged Duroc-Jersey Swine.

**Wheatland Farm Herd**

**DUROC-JERSEYS**  
For Sale - Fall gilts, tried brood sows, bred and open and spring pigs of either sex.

**GEO. G. WILEY & SON, South Haven, Kans.**

**FOR SALE** 75 head of pedigree Duroc-Jersey spring pigs, boars or sows, no akin, good color, well built, very cheap, order now from  
**CHAS. DORR, Route 6, Osage City, Kans**

**8th Annual Public Sale**  
Of Thoroughbred Duroc-Jersey swine, October 28, 1905. 120 head, all sizes, all ages, and all good ones. Write at once for catalogue.

**Newton Bros., Whiting, Kansas.**

**SUNNYSIDE HERD OF DUROC-JERSEY SWINE.**  
Aged sows, yearling sows, spring boars and gilts for sale cheap. Our brood sows have all been prize winners in hot competition. Our spring pigs are sired by Burrells Hague 21469 and Sunnyside Prince 21899. Hague & Sons, Route 8, Newton, Kansas. Phone on farm.

**Orchard Hill Herd**

**OF DUROC-JERSEYS**  
20 fine March and April pigs, sired by Norton's "Wonder," and from aged dams, for sale.

**R. F. NORTON - Clay Center, Kans.**

**THE CHERRY RED HERD** Our Durocs are better than ever. Some No. 1 February and March boar pigs; as pretty as can be found in any herd. Also just as fine gilts of same age for sale at low prices, with Keen Champion 24469 to head herd. Also some W. P. Rocks and Pekin Ducks.

**Mr. and Mrs. Henry Shrader, Wauweta, Kas.**

**PLAINVILLE DUROC-JERSEYS**  
Herd headed by King of Kansas 25238, sired by Improver 26, the hog which brought \$300 for a half interest. For sale: A lot of pigs sired by King of Kansas. The brood sow, Daisy E., is very large and a good breeder of show hogs. There are several sows in the herd of the Tip Top Notcher strains. Send in your orders and get a bargain.

**J. M. YOUNG, Plainville, Kans.**

**J. B. DAVIS FAIRVIEW STOCK FARM**



Breeder of Duroc-Jersey swine, and Red Polled Cattle. Public sale of swine, October 25, 1905.

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**POLAND-CHINAS.**

**FOR SALE** Poland-China Hogs, Holstein-Friesian Cattle, either sex. Best strains represented.

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**HERD OF POLAND-CHINAS**  
Eight choice young boars, bred and open gilts, good size and finish; first draft for \$20; take choice of boars. WM. KNOX, SOUTH HAVEN, KANS.

**Pecan Herd of Poland-Chinas**  
Best strains. Large and grothey, yet with plenty of finish. A few sows bred for St. Farrow for sale (good ones). Write us what you want.

**J. N. WOODS & SON, Route 1, Ottawa, Kans.**

**DIRGO BREEDING FARM**  
J. R. Roberts, Prop., Deer Creek, Okla.

Breeder of up-to-date Poland-Chinas. A choice lot of boars of serviceable age for sale at prices which should make them go at once. Write me before placing your order.

**E. E. Axline's Annual Sale**  
Oak Grove, Missouri

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Sixty head, tops of all 1904 and spring 1905 crop. You know the kind. Catalogue ready September 10.

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Kansas Herd of Poland-Chinas has bred gilts and W. R. C. Leghorn chicks. F. P. Maguire, Hutchinson, Kansas.

**MAPLE VALLEY STOCK FARM**  
Pure-bred Poland-Chinas from leading strains. Visit ours welcome and correspondence solicited. Satisfaction guaranteed. C. P. BROWN, R. 2 Whiting, Kas.

**Elm Grove Stock Farm Poland-Chinas.**  
Herd headed by Nonpareil 86105A. Sweepstakes boar at Missouri State Fair 1904. Can spare a few choice sows bred for May and June farrow.

**F. A. DAWLEY, Waldo, Kans.**

**Main's Herd of Poland-Chinas**  
A grand lot of spring and last fall pigs, sired by the great show hog, Empire Chief 90376s out of number one sows. They take on the large size and heavy bone of their sire. Sows including Empire Chief gilts, bred for fall litters to Roller Trust, he by High Roller, the Ohio champion. 240 in herd. Fed for breeders. Priced reasonable. Annual sale October 25.

**James Mains, Oskaloosa, Jefferson Co., Kan**

**Spring Creek Herd of**

**POLAND-CHINA SWINE**  
Pigs by On and On and U. S. Model. 3 fall boars and a number of choice gilts, large, fancy and well bred. Perfection and Sunshine blood

**G. M. Hebbard, Peck, Kansas**

**ROME PARK POLAND-CHINAS and BERKSHIRES.**  
I have about twenty boars ready for use and twenty-five sows bred, and some unbred, and a large number of good pigs, both breeds.

**T. A. HUBBARD, (County Treasurer Office), Wellington, Kans.**

**GUS AARON'S POLAND-CHINAS**  
Route 5, Leavenworth, Kans.

Choice young boars of April and May farrow sired by Beauty's Extension, for sale. Also bred sows and gilts, all with good colors, bone, fancy head and ears. The herd boar, Beauty's Extension 27968, for sale. Some snaps here. Visitors welcome. Mention Kansas Farmer and write for prices.

**Pure Poland-China Hogs.**  
We have a few fall and winter boars sired by American Royal 81505 A and Onward 97359 A, he by Keep On 61015 A, out of some of our best sows. Also some spring pigs by same boars.

**J. R. KILLOUGH & SONS, OTTAWA, KANS.**

**HIGHLAND FARM HERD OF PEDIGREED POLAND-CHINAS**  
Twenty serviceable boars at special prices for next 30 days, sired by Black Perfection 37132, Silk Perfection 32804, Perfection Now 32580, and Ideal Perfection. They are lengthy and good-boned pigs, with plenty of finish. Write me description of what you want and I will guarantee satisfaction.

**JOHN BOLLIN, Route 5, Leavenworth, Kans.**

**Shorthorn Cattle and Poland-Chinas**  
**A. B. MULL, Breeder, Iola, Kansas.**

For sale, 6 choice Shorthorns and 4 Poland-Chinas. Catalogued in the Breeders Combination Sale at Fredonia, Kansas, October 19th and 20th, 1905. I want to buy a Scotch Shorthorn bull.

**CHESTER WHITES.**

**World's Fair**

**CHESTER-WHITE HOGS**  
Shorthorn cattle, Oxford sheep and Peafowls. I won 13 prizes on 14 head of Chester-Whites at World's Fair, 1904. Four herd boars in use.

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**High Point Stock Farm**  
I have choice O. I. C. and Duroc-Jersey males. Also bred O. I. C. and Duroc-Jersey gilts for sale. B. P. Rock cockerels and eggs in season. Write or come and see

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We offer for sale a nice lot of good pigs sired by Hoosier Boy 24 10396, one of the best and out of such noted dams as Bessie W 19074 and Ada S. 19072, and other good brood sows. We price nothing but good straight stuff. We also have a few choice black and tan pups, nicely marked, that are sure death to rats. Prices reasonable.

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**PRIZE WINNING O. I. C. SWINE**  
Sows and gilts bred to Kerr Dick, sire to World's Fair Junior Champion, or by Kerr Dick and bred to other equally good sires. Also fine crop of spring pigs from such sows as Big Mary, grand champion at St. Louis, Kerr Una, Silver Mina and others. Headquarters for Boars and Gilts. Write me.

**O. L. KERR, Independence, Mo.**

**CHESTER WHITES.**

**O. I. C. Hogs**

**Scotch Collie Dogs**

**B. P. Rocks**  
One hundred grand pups sired by the two greatest stud dogs in the west, Cragmere Wonder and Brandane Noble. We are selling more Collies than any firm in America. Why? Because we have the blood, our prices are moderate, and our dogs are workers as well as blue blooded.

With each Collie sold by us we send a book "The Useful Collie and How to Make Him So." Write at once for they are going fast.

**Walnut Grove Farm, H. D. Nutting, Prop., Emporia, Ks.**

**O. I. C. THE WORLD'S BEST SWINE**  
200 head all sizes, both sexes, singly, pairs, trios or small herds. A large number by Norway Chief 12363 grand first and sweep-stake boar Nebraska State Fair, 1904. Top quality. Rock bottom prices. Write to-day for prices to

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