

# KANSAS FARMER

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## BREEDERS' DIRECTORY.

Cards will be inserted in the Breeder's Directory as follows: Four-line card one year, \$16.00; each additional line \$4.00. A copy of the paper will be sent to the advertiser during the continuance of the card.

### SWINE.

**N. B. SAWYER**, Cherryvale, Kansas, breeder of Duroc-Jersey swine. Write me.

**J. L. BIGELOW**, Coffeyville, Kansas, breeder of Poland-China swine. Stock as represented.

**TAMWORTH HOGS.** (Bacon type.) C. F. ARMSTRONG, Clyde, Kans. . .

**D. TROTT**, Abilene, Kas., famous Duroc-Jerseys and Poland-Chinas.

**M. H. ALBERTY**, Cherokee, Kans., Duroc-Jerseys and Pig Teeth Clippers.

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**KANSAS HERD OF POLAND-CHINAS**—Will sell U. S. Tecumseh 20368, he by old Black U. S. 4209, and a few of his gilts bred to Black Chieftain. Inspection preferred to description. Also two nice fall boars. Address F. P. MAGUIRE, Haven, Kans.

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Chief I Know and Hadley Jr. strains. J. H. TAYLOR, Rhinehart, Kans.

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## BASSETT BROS., Burlingame, Kans., POLAND-CHINAS.

A few good boars for sale, sired by Hadley Model 2d No. 19827 S. Dam, Extra Black U. S. 52606. Correspondence solicited.

**Wamego Herd** Imp. Chester Whites and Poland-Chinas. Special Prices on Cheaters—to close out herd by end of the year. Correspondence or inspection invited. Mention Kansas Farmer. O. J. HUGGINS, Proprietor, Wamego, Kans.

## "SHADY BROOK STOCK FARM"

Located four miles north of Topeka. Devoted exclusively to producing high-class POLAND-CHINAS. Prices low. Write for them to H. W. CHENEY, Station A, Topeka, Kansas.

## R. S. COOK, Wichita, Kans., BREEDER OF.....

## POLAND-CHINA SWINE.

The Prize-Winning Herd of the Great West. Seven prizes at the World's Fair; eleven firsts at the Kansas District Fair, 1893; twelve firsts at Kansas State Fair, 1894; ten firsts and seven seconds at Kansas State Fair, 1895. The home of the greatest breeding and prize-winning boars in the West, such as Banner Boy 28441, Black Joe 28603, World Beater and King Hadley. FOR SALE—An extra choice lot of richly-bred, well-marked pigs by these noted sires and out of thirty-five extra large, richly-bred sows. Inspection or correspondence invited.

### SWINE.

## SPRING GROVE POLAND-CHINAS.

Growthy, strong-boned pigs. Tecumseh, U. S. Model, and Darknes families. Herd boars, Moorish King 35513 O., Tecumseh I Am 31595, and Darknes U. S., by Darknes Model, a grandson of Klever's Model. Write or call.

A. O. NORTHROP, Boyle, Jefferson Co., Kans.

## PURE-BRED POLAND-CHINAS.

Thirty-five Serviceable Boars and 45 Gilts for ready sale at reasonable prices; quality, style, and breeding considered. Most of these hogs are by the splendid herd boar Black Chief 42857, he by Black Joe out of Betty Risk, and are out of such sows as Binner's Pride (103706), Worldbeater Beauty (9484), Black Bessie (104224), and Darknes Model (104968). Address HIRAM SMITH, Colwich, Kans.

## The Blood of Chief Tecumseh 2d

Is found perhaps more strongly in MEADOW BROOK POLAND-CHINAS Than in any other herd of eastern Kansas. A thoroughly good lot of young boars for sale; also gilts and bred sows. J. R. KILLOUGH & SONS, Farm one mile north of Ottawa, Kans.

## VERDIGRIS VALLEY HERD—Large-Boned Poland-Chinas.

200 head. Twenty good spring boars, good bone, large and growthy. Also twenty fall of '98 boars; a few very fancy. Thirty yearling sows and spring gilts, bred or unbred; good ones. We can furnish males and females, not related, of any of the fashionable and prize-winning strains.

WAIT & EAST, Altoona, Wilson Co., Kans.

## THE WILKES QUALITY HERD OF POLAND-CHINA SWINE.

Thos. Symms, Prop., Hutchinson, Kas. Herd boars, Darknes Quality and Reno Wilkes. For ready sale 45 very choice pigs out of Bessie Wilkes, Beauty Sedom, Chief I Know, Standard Wilkes, Ideal Black U. S. and Chief Tecumseh 2d sows. Farm one mile west of Hutchinson, near Star Salt works.

## SUNNYSIDE HERD POLAND-CHINAS

Corwin, Black Bess, Black U. S., Sanders, and Short-stop Strains. I have for the season's trade, about fifty head of pigs, sired by Sanders of Sunnyside, and Corwin Black Stop, at prices from \$10 and upwards, according to quality. Correspondence solicited. M. L. SOMERS, Altoona, Kans.

## PRIMROSE HERD... OHIO POLAND-CHINAS

ONE PRICE. BLACK U. S. FOR SALE—My herd boar, Sixteen to One 41627 O., sired by Welch's Black U. S. 33521 O., dam Nina One Price 31852 O., she by old One Price 18339 O. He is a good individual and sure breeder; no better bred boar anywhere. Two boars of spring farrow, sired by Priceless 30169 O. by One Price and out of Nellie One Price 81796 O. by One Price. Write for prices and description. O. P. SHELTON, Osawatimie, Kans.



Vaccinating the human family as a preventive of Smallpox is not even comparatively modern. It is said to have been practiced in China 1000 B. C. It was introduced into England in 1721. Vaccinating Hogs to prevent Cholera and Swine Plague is strictly modern. My Hog Cholera Serum is a positive preventive of Cholera. You can turn a Hog that has been correctly vaccinated with my Serum, into a pen where hogs have been dying with Cholera up to that hour, and I will give any man \$100 if that animal does not live and thrive if properly fed. I will send, postpaid, on receipt of price, to any Hog Raiser in the United States, a Vaccinating Instrument and enough Serum to Vaccinate 100 head of Hogs for \$10; 50 head for \$5.50; 25 head for \$3. The operation is so simple that a child can perform it. My Serum is FRESH and reliable, with instructions to be returned and exchanged for fresh Virus if not consumed before a certain period. Beware of Liquid Serum, it is liable to be putrid and kill your stock by Blood Poison. None genuine without the above trade-mark on every package. Positively not handled by Agents. Send Stamp for particulars, "Why Vaccinate." Address W. J. GILLETT, M. D., Parsons, Kansas.

### SWINE.

**T. A. HUBBARD**, Rome, Kansas, Breeder of POLAND-CHINAS and LARGE ENGLISH BERKSHIRES. Two hundred head. All ages. 25 boars and 45 sows ready for buyers.

## Queen City Hog and Poultry Farm

Improved Chester Whites and Poland-Chinas Light Brahmas, Buff Cochins, Pekin ducks and White guineas. Stock for sale. Poland-Chinas at closing-out prices. Visitors welcome. A. E. STALEY, Farm one-half mile north of town. Ottawa, Kans.

## Central Kansas Herd of Poland-Chinas

Of Chief Tecumseh 2d, Guy Wilkes 2d, Lawrence Perfection, Black U. S., and King Butler blood. 100 head. A choice lot of spring boars; good bone, large and growthy. A few fall of '98 boars. A fine lot of yearling sows and spring gilts, bred or unbred. Can furnish males and females not related. Address C. S. SNODGRASS, Galt, Rice Co., Kans.

## RIDGEVIEW FARM HERD OF BERKSHIRES

Buy your Berkshires from our prize-winning herd and get your money's worth. First-class stock of either sex at reasonable prices. Breeding and prices furnished upon application. MANWARING BROS., Lawrence, Kans.

## CHESTNUT POLAND-CHINAS. GROVE....

MISSOURI'S BLACK CHIEF, the champion aged boar of Illinois State Fair, at head of herd. Inspection of Stock Solicited. Watch for announcement of my great sow sale. JOS. R. YOUNG, RICHARDS, VERNON COUNTY, MO.

### CATTLE.

**CENTRAL KANSAS STOCK FARM**—F. W. ROSS, Alden, Rice Co., Kas., breeds pure-bred Shorthorns, Poland-Chinas and Barred Plymouth Rocks. Stock for sale.

**ENGLISH RED POLLED CATTLE—PURE-BRED** Young stock for sale. Your orders solicited. Address L. K. Haseltine, Dorchester, Green Co., Mo. Mention this paper when writing.

**HEREFORDS.** Top cattle only. Rich breeding. Five bulls out of my best cows for sale. T. H. PUGH, Carthage, Mo.

**W. H. McCALL, COLLEGE VIEW, NEB.** Two extra yearling Holstein-Friesian bulls, also cows and heifers. High milk and butter records. Special price on bulls next 30 days.

**H. R. LITTLE**, Hope, Dickinson county, Kans., breeder of Shorthorn cattle. Herd numbers 100 head.

FOR SALE: TWENTY-FIVE SHORTHORN BULLS OF SERVICEABLE AGE.

## BONITA • SHORTHORNS.

BATES, BOOTH, and BEST AMERICAN strains. Baron Norubi 127151, by Godwin, the sire at Linwood, heads our herd. Address WILLIAMS BROS., Bonita, Kans.

## MAPLE GROVE HEREFORDS.

Selected from herds of Gudgell & Simpson, Cross, Standard, and Comstock. Headed by Garfield bull, Porter 45708. J. R. SMITH, Danavant, Kans.

**MEADOW BROOK SHORTHORNS**—Headed by the Scotch bull, 20th Earl of Valley Grove 122381, a son of Lord Mayor. Breeding cows by such bulls as Imported "Thistle Top" and "Earl of Gloster." A car lot of high grade cows for sale. F. C. KINGSLEY, Dover, Shawnee Co., Kans.

## BREED THE HORNS OFF

By using a Red Polled bull. CHAS. FOSTER & SON, ELDERADO, KANS. Breeders of Red Polled cattle. Herd headed by Powerful 4532. Pure-bred and grades for sale. Also, prize-winning Light Brahmas.

## DAVE RISK, Weston, Mo., LIVE • STOCK • ARTIST

Prices very reasonable. Satisfaction guaranteed.

### CATTLE.

## RED POLLED CATTLE

Largest Herd in America. S. A. CONVERSE, Proprietor, Importer and Breeder. Cresco, Howard County, Iowa.

## GEO. GROENMILLER & SON,

Centropolis, Franklin Co., Kans. Breeders of RED POLLED CATTLE and COTSWOLD SHEEP, Buff and Partridge Cochins, Light Brahmas, Brown S. C. Leghorns, Golden Wyandottes. Full bloods and seven-eighths Red Polled bulls for sale. Herd numbers sixty head. The first prize herd of Kansas.

## Bulls For Ranch or Farm.

## 40 HEAD OF Hardy Aberdeen Angus

Age 6 months to 2 years. Ten are registerable and nearly all are full bloods. Prices that will sell them. Write or see L. H. F. & T. W. KADON, Keata, Kans. Ranch one-fourth mile from Rock Island depot.

## CLOVER CLIFF FARM.

Registered Galloway Cattle. Also German Coach, Saddle and Trotting-bred horses. World's Fair prize Oldenburg Coach stallion, Habbo, and the saddle stallion, Rosewood, a 16-hand, 1,100-pound son of Montrose, in service. Visitors always welcome. Address BLACKSHERE BROS., Elmdale, Chase Co., Kas.

## SILVER CREEK HERD

## SHORT-HORN CATTLE.

Scotch and Scotch-topped, with the richly-bred Cruickshank bulls, Champion's Best 114671 and Gwendoline's Prince 130913, in service. Also high-class DUROC-JERSEY SWINE. Can ship on Santa Fe, Frisco and Missouri Pacific railroads. J. F. STODDER, Burden, Cowley Co., Kans.

## REGISTERED Galloways

FOR SALE! IN LOTS TO SUIT. 12 2-year-old bulls, 20 yearling bulls, balance cows and heifers. Inspection desired. Call on or address, J. M. LOWE, 311 Mass. Bldg. Kansas City, Mo. J. R. LOWE, Blue Springs, Mo.

## ROCKY • HILL • SHORTHORNS

Waterloo Duke of Hazelhurst 11th 130723 and the Linwood Golden Drop bull, Golden Victor Jr. 137875, head of herd. Thirty-odd young bulls and a few heifers for sale. Two of the bulls cross bred Scotch and Bates are good enough to head herds. J. F. TRUE & SON, Newman, Kans. Newman is on Union Pacific R. R., twelve miles east of Topeka.

## 40 Shorthorn Bulls For Sale.

I wish to sell as soon as possible 40 young bulls, 6 to 15 months old. Will also spare a few females to customers. Prices will be right. Address, GEORGE CHANNON, Proprietor Lockridge Stock Farm, Hope, Dickinson Co., Kans.

## GREENACRES

Three miles north of Quenemo on Santa Fe. One and a half miles N. of Lomax on Missouri Pacific.

## HEREFORD CATTLE.

Archibald 1st 39254 at head of herd. Young Archibald breeding stock always for sale. Herd always "at home." J. C. CUREY, Quenemo, Osage Co., Kans.

## SUNFLOWER HERD

Scotch and Scotch-topped SHORTHORN CATTLE. POLAND-CHINA SWINE.

Herd bulls, Sir Knight 124403 and Violet Victor 137674. Herd boars, Black U. S. 2d 50606, and L's Sensation 2d 19806. Representative stock for sale. Address ANDREW PRINGLE, Harveyville, Kansas.



## Agricultural Matters.

### Corn Shock Hauling Devices.

Editor Kansas Farmer:—I have received a great many letters asking me to again describe my corn shock hauling devices; also several parties have driven here, some as far as 60 miles, to see for themselves how it was possible for them to fix up their own wagons to haul fodder shocks whole.

While I am always glad to have them come to see me or write to me, yet if I am not actually operating the tools I find it is hard for them to understand. I have gone to considerable trouble and \$10 expense to be able to send the pictures showing appliances and methods by which I handle fodder shocks whole. There has been scarcely a dew fall since fodder was put in the shock, and



FIG. I.

to attempt to handle it in the old way while it is so dry and the wind so strong is to invite almost a total loss of the foliage.

In fact, it is simply impossible to haul it in the old way, yet I am handling it every day and have put 12 acres of shocks in the barn that have not a particle of dirt on them and without any loss. My heaviest corn I cut up 10 by 10 hills square and my light field 12 by 12 hills square. The shocks will average about 200 pounds each and are easily handled whole; either by baling or without.

Any low-wheeled wagon or sled can be rigged up to successfully bale a shock of corn so it can be stored in the barn whole and taken out again the same way, if the proper principle is employed. It is simply a matter of getting a powerful pull, or grip, on the shock low enough down, then putting a hay-baling wire around it and fastening it very securely, then the shock will bear rough handling no matter how the wind blows. If two men could put their feet up against a shock and loop a rope around it and each draw about 6,000 pounds while another put on a wire, there would be no need of a machine, but unfortunately no two men can draw that amount, so the same principle must be applied by the means of ropes, pulleys, and windlass. This is the simplest thing in the world if you know how, and I show the principle in figure I. Put a 2 by 6 by 19 foot plank on wagon to receive the strain and fasten two single pulleys to it, one to each end, having the plank bolted diagonally to wagon platform. Two



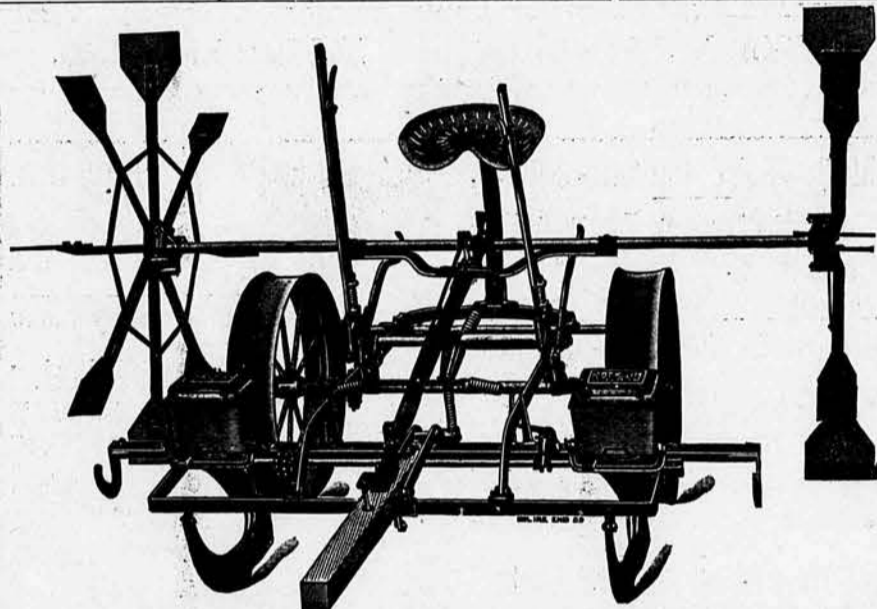
FIG. II.

equalizing ropes pass through these pulleys, and around the shock and hook together. The other ends of these ropes are drawn by a 5-rope tackle, pulled by a powerful back-gear windlass. The cut, figure I, shows the pulleys in position with a single-crank windlass and an ear of corn to represent the shock. At a glance one can see what an enormous strain a back-gear windlass will draw on a shock by the aid of these pulleys. The rope around the shocks must be a first-class new one-inch rope with a breaking strain of 7,000 pounds, and three-fourths inch new rope must be used on the tackle. A back-gear windlass is necessary, geared back 4 to 1 and a 14-

year-old boy can draw 6,000 pounds on the shock easily.

Figure II represents my 5-year-old boy and my wagon in position with about 500 pounds strain on the shock, showing just how the work is done. It will be seen that the pressure has tipped the shock toward the wagon and it is difficult to put the wire around. Since these pictures were taken I have added a plank 4 feet long, 12 inches wide, and cut in to receive the shape of the shock. This plank is on hinges and folds over onto the wagon frame out of the way and can be instantly removed, as the hinges are the old-fashioned hook-and-eye kind. The plank is reinforced underneath with two strong cross pieces bolted firmly to the plank, so that any amount of pressure on edge of plank is communicated to the wagon frame without any strain on the hinges.

In figure II the boy stands with his arms on the windlass crank and the pulleys and ropes can be distinctly seen. Five acres per day is a good day's work



A SUCCESSFUL WIRELESS CHECK-ROWER.

The advertisement of this new wonder in the implement world is to be found on page 14, and a wonder it is, because it is successful. Up to now a "wireless" check-rower has been a dream of the implement inventor and farmer—and it has been nothing else. All previous attempts have failed until the Implement Manufacturing Company, of Davenport, Iowa, invented and built the first successful "wireless" check-rower the world had ever seen. That it is a success has been abundantly proven by its actual operations during the past year.

Its simplicity and ease of operation is its strongest point. To start first row, you drive across the field as straight as possible. In doing this, the spacing wheels have made a series of wide and narrow holes each side of the planter. By throwing a lever, the spade wheels are lifted clear of the ground. The planter is then turned around, bringing the tongue over a mark made by a disk marker, the spacing wheels are again dropped in such a manner that a wide spade on the inside wheel will enter a wide hole or a narrow spade a narrow hole made in the previous course across the field. By then keeping the horses as nearly as possible over the mark, it will be found that the spacing wheel will retrace accurately the holes made in previous trip. The checking mechanism is so timed that the corn will always be found opposite the wide hole made by the wide spade and directly under the ground wheel as in all planters.

A large number of these machines were bought last spring by farmers, and several thousand acres of corn planted. All the farmers in each neighborhood witnessed

the operations and, with the purchaser, pronounced it perfect. It has been exhibited successfully at all the State fairs and over fifty county fairs—the only machine of this nature that the inventor has ever dared to put before the public where it could be seen and criticised.

Last spring was more than usually bad for planting corn, but the Davenport Wireless planted perfectly under every condition, over rough, muddy, and gumbo soil, over hills, hollows, sloughs, ditches, dead furrows, rocks, and sod—in fact all conditions of soil. It will check corn straight anywhere a team can haul a planter.

This company is aware that thousands of failures have been made in this line as with other important inventions before successful, but at last success has been attained. Dealers who could not obtain but one or two last year are now placing orders for several dozen. Some neighborhoods that know will be fully supplied. It is guaranteed to your dealer, your dealer guarantees it to you. "Because he has bought his supply of wire machines, don't be talked out of a 'Wireless'."

Only two companies handle it this year, the Rock Island Plow Company, Rock Island, Illinois, one of the largest manufacturers of implements in the United States, which, in itself, is a guarantee that it is a success; and The Implement Manufacturing Company, of Davenport, Iowa, "Inventors and Promoters." Address all requests for printed matter and testimonials to The Implement Manufacturing Company, of Davenport, Iowa.

for a man and boy, and the rig can be taken off in five minutes. For short shocks, the rear rope passes down through a hole in the floor of wagon platform and passes around the shock below the edge of the frame, or about 28 inches from the ground. The shock in figure II is about 12 feet tall and contains over 2 bushels of corn, and 44 of them per acre are 10 by 10 hills square. I have no trouble baling them and lifting them whole. J. C. NORTON.  
Morantown, Kans.

### Notes for November.

- Push the corn cribbing.
- Shelter the stock at night now.
- Increase the grain feed now.
- Push the fattening hogs for market.
- Have the sheep's quarters dry under foot.
- Full calves must have warm, dry quarters.
- Get everything under shelter before bad weather sets in.
- Make sure of a full supply of vegetables and fruit. Market the surplus.
- It is poor economy to sell now and buy again next spring.
- Plow at least sufficient ground upon which to apply manure during the winter.
- Get everything in as good shape as possible for cold weather, then if it

**DOUBLE THE FOOD VALUE**

can be secured from grain fed to live stock if it is cooked. It is more easily digested and assimilated by the animal stomach.

**ELECTRIC FEED COOKERS**

These cook feed in the quickest and best way and with the least amount of fuel. Made of cast iron, lined with steel. Boilers made of heavy galvanized steel, made in 18 sizes. Capacity from 25 to 100 gals. Strong, well made and will last indefinitely. Order before the cold weather catches you. Write at once for free circulars and prices. Electric Wheel Co., Box 46, Quincy, Ill.

comes a little early you will be prepared.

Plan to make, save, and apply all the manure possible.

Be sure there is a dry shelter for every animal to be wintered.

Even in winter, pigs must be kept growing steadily to be profitable.

Good drainage should be provided for the low places in the wheat fields.

Good drainage is essential in the orchard; trees will not thrive with wet feet.

As soon as there is a good freeze, put the extra covering on the fruit and

be given plenty of room, and care taken to sift the soil carefully in among the roots in order to keep them moist. Band up well as a protection against mice.

Feed swill along with the corn to the fattening hogs; they will keep healthier.

If the other work will permit, now is a good time to haul out manure on the meadows.

One advantage in applying manure in the orchard now is that it will act as a mulch during the winter.

Stock kept in a good, thrifty condition now can be wintered more economically than if allowed to run down.

All stock intended to be marketed should be fattened before cold weather sets in, as in cold weather the cost of securing a gain is considerably increased.

Do not allow quail and other insect-eating birds to be killed off the farm this winter. A little care in this regard now may save much loss next season.

Plow the garden deep and apply a good dressing of well-rotted manure; supply good drainage, but run the furrows so as to avoid washing.

Eldon, Mo. N. J. SHEPHERD.

### What Kind of Grass?

Editor Kansas Farmer:—Will you please let us know through the Farmer what the enclosed sample of grass is, and if it is of any especial value? Some seeds were dropped by a party moving here and it is spreading over the yard and makes a nice carpet. Sand-burs is the usual grass here in the yards and this grass would beat sand-burs 16 to 1 if we could only know what it is or get seed of it. S. M. MCHARG.  
Sand Creek, O. T.

The grass you send is known as yard grass (*Eleusine indica*). It is an annual, native to the warmer regions of the Old World but is now abundantly introduced in the United States. It occurs in yards, stony roadsides, and waste places generally. It is quite nutritious and is a good grazing grass, but usually makes only a short spreading or matted growth. It abundantly re-seeds itself. A. S. HITCHCOCK.  
Botanist Kansas Experiment Station.

### TO CURE A COLD IN ONE DAY

Take Laxative Bromo Quinine Tablets. All druggists refund the money if it fails to cure. E. W. Grove's signature is on each box. 25 cents.

### Mill to Grind Kaffir-corn Heads.

Do you know of a mill that will grind Kaffir-corn heads so we would not have to thresh the corn? Some claim it would make better feed that way. Would also like to know the name of the sorghum cane that will make the most seed per acre, and get ripe before frost if planted in May here in Kansas. Towanda, Kans. J. M. KIPERS.

### TO MAKE YOUR HOME HAPPY

Use "Garland" Stoves and Ranges.

THE ROCK ISLAND Playing Cards are the slickest you ever handled. One pack will be sent by mail on receipt of 15 cents in stamps. A money order or draft for 50 cents or same in stamps will secure 4 packs, and they will be sent by express, charges prepaid. Address, JOHN SEBASTIAN, G. P. A., C. R. I. & P., Chicago.

vegetable pits. Be sure to cover deep enough to keep out frost.

Stock should not be allowed in the orchard in winter; they will eat the ends of the branches.

When trees are heeled in, they should

## A HINT FOR HUNTERS

YOU can get only two shots at the most with a double-barreled gun, but a

### WINCHESTER REPEATING SHOTGUN.

gives you three, four, five, or even six shots before the game is out of range. The Winchester Repeating Shotgun is now made in "Take Down" style, and can be carried in a Victoria case like a double-barreled gun. It combines rapidity, reliability, and strong shooting qualities with a price within reach of everybody's pocketbook. For sale by dealers everywhere.

FREE—Send name and address on postal for 158-page catalogue Winchester Repeating Arms Co., 188 Winchester Ave., New Haven, Ct.



# The Stock Interest.

## THOROUGHbred STOCK SALES.

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

NOVEMBER 15—W. P. Harned, Shorthorns, Vermont, Mo.  
 NOVEMBER 22—Geo. Allen, Shropshire sheep, Allerton, Ill.  
 DECEMBER 6-7—Armour, Funkhouser, Sparks, Herefords, Kansas City, Mo.

## THE VALUE OF KAFFIR-CORN AS A FEED.

Editor Kansas Farmer:—There has been quite a discussion lately in the agricultural papers in regard to Kaffir-corn as a feed, and how to feed it, and I wish to add a few remarks by way of commendation and also of correction. The Kansas Experiment Station during the past two years has experimented quite extensively in the feeding of Kaffir to hogs to determine its value as compared with other crops, also what combinations it feeds best with, and whether it pays to grind.

Kaffir alone, bushel for bushel, does not give quite the results that corn will, but when yield and the surety of a crop is put in its favor it undoubtedly is far ahead for localities where corn is not sure. And it is surprising that farmers in these localities should be so slow in recognizing this fact.

While corn alone gives better results than Kaffir alone, when one-third soy-bean meal was added to each the difference entirely disappeared, and with young hogs produced from 15 to 18 pounds of gain per bushel of the mixtures, with a slight difference in favor of the Kaffir and soy-beans. The gains from Kaffir alone were from 10 to 12 pounds per bushel and from corn alone from 11 to 13, leaving only a pound in favor of corn when fed alone.

The addition of alfalfa hay and soy-bean meal to the feed of Kaffir for hogs weighing an average of 125 pounds at the beginning of the feeding period, was tried in duplicate last winter, together with ground versus unground Kaffir. These experiments were very carefully conducted, under ordinary farm conditions, and as ten hogs were fed in each lot the results can not be doubted. And the results of the duplicate experiments are similar in every aspect.

The following is the result of the first trial which lasted nine weeks, November 24, 1898, to January 26, 1899, the hogs averaging 125 pounds at the beginning. The gains per bushel of feed were as follows:

|  | Pounds. |
|--|---------|
| Kaffir-corn meal, dry, and 7.83 pounds alfalfa hay.....    | 10.88   |
| Kaffir-corn meal, dry, alone.....                          | 7.48    |
| Kaffir-corn meal, wet, alone.....                          | 8.09    |
| Kaffir-corn, whole, alone.....                             | 8.56    |
| Kaffir-corn meal four-fifths, soy-bean meal one-fifth..... | 12.00   |

This shows a gain in feeding alfalfa hay with Kaffir-corn to fattening hogs of 868 pounds of pork per ton of alfalfa hay. Valuing the hay at \$3 per ton and fat hogs at 3 cents per pound live weight, the Kaffir-corn fed alone brought 22.4 cents per bushel, the Kaffir-corn fed with alfalfa brought 31.4 cents and the soy-beans 90 cents per bushel. The hay fed was of the best quality, carefully cured with the leaves all on.

The second trial lasted fifty days, from February 28 to April 11, the hogs averaging 140 pounds at the beginning. The gains per hog in the fifty days from the different methods of feeding were as follows:

|  | Pounds. |
|--|---------|
| Kaffir-corn, whole, and alfalfa hay.....                   | 68.5    |
| Kaffir-corn meal and alfalfa hay.....                      | 68.6    |
| Kaffir-corn whole, alone.....                              | 45.6    |
| Kaffir-corn meal alone.....                                | 44.1    |
| Kaffir-corn meal four-fifths, soy-bean meal one-fifth..... | 86.8    |

The gains per bushel of grain fed were as follows:

|  | Pounds. |
|--|---------|
| Kaffir-corn whole, and 14.58 pounds alfalfa hay.....       | 11.17   |
| Kaffir-corn meal, and 13.4 pounds alfalfa hay.....         | 10.86   |
| Kaffir-corn, whole, alone.....                             | 8.77    |
| Kaffir-corn meal alone.....                                | 8.60    |
| Kaffir-corn meal four-fifths, soy-bean meal one-fifth..... | 12.95   |

The hogs sold for \$3.30 per 100 pounds live weight in Manhattan. This experiment showed a gain in feeding alfalfa hay with Kaffir-corn meal to fattening hogs of 338 pounds of pork per ton of alfalfa hay. The hay was of poor quality, with many of the leaves gone, and the hogs rejected a large portion. Valuing the hay at \$3 per ton and the hogs at their selling price, \$3.30 per 100 pounds live weight, the Kaffir-corn fed alone brought 28.3 cents per bushel, the Kaffir-corn fed with alfalfa hay 33.8 cents and the soy-beans \$1.05 per bushel.

The 50 head were shipped to the packers, Swift & Co., St. Joseph, Mo., who valued the different lots at the following prices per hundred pounds

live weight: Kaffir-corn and alfalfa hay lot, \$3.67; Kaffir-corn and soy-bean meal, \$3.70; Kaffir-corn alone, \$3.65; and Kaffir-corn meal alone, \$3.60. As to the value of grinding, it will be seen that in three trials the grinding was an actual detriment to the feeding value of the Kaffir, to say nothing of the additional expense of grinding. In the second test the gains per head during the period, when fed alfalfa in addition, show .1 pound in favor of the grinding, but the gain per head is strongly in favor of the whole Kaffir. This shows that the hog gets more good out of the whole Kaffir than the ground.

From May 30 to July 11, 1899, 80 head of hogs were fed in four lots, averaging 125 pounds per head at the beginning of the feeding period. The feed was Kaffir whole, skim-milk and alfalfa pasture.

The lots were fed and gained as follows in the forty-two days:

|                                 |              |
|---------------------------------|--------------|
| Lot 1.—Kaffir, whole.....       | 6,736 pounds |
| Skim-milk.....                  | 4,200 pounds |
| Alfalfa pasture.....            | 1,411 pounds |
| Gained.....                     | 6,601 pounds |
| Lot 2.—Kaffir, whole.....       | 4,200 pounds |
| Skim-milk.....                  | 1,319 pounds |
| Gained.....                     | 5,321 pounds |
| Lot 3.—Kaffir whole, alone..... | 834 pounds   |
| Gained.....                     | 4,931 pounds |
| Lot 4.—Kaffir, whole.....       | 890 pounds   |
| Alfalfa pasture.....            | 890 pounds   |
| Gained.....                     | 890 pounds   |

The two lots receiving skim-milk received the same amount of milk all the time, but the Kaffir was varied with the appetite of the hogs.

The alfalfa pasture made but slight difference in the gain, but made a strong difference in the slaughter test as well as in the price and looks of the hogs. However, hogs on full feed do not make the use of alfalfa that hogs not on full feed do.

At the close of the experiment the hogs were weighed on the college scales and shipped to Kansas City without feed in the car or after reaching the yards, and the shrinkage on 30 head was but 230 pounds.

Each lot was sold on its own merits July 13, and brought as follows:

|   |        |
|---|--------|
| Lot 1.—Kaffir, skim-milk and alfalfa pasture..... | \$4.10 |
| Lot 2.—Kaffir and skim-milk.....                  | 4.075  |
| Lot 3.—Kaffir alone.....                          | 4.00   |
| Lot 4.—Kaffir and alfalfa pasture.....            | 4.05   |

These experiments show the value of Kaffir, and how readily it responds to the addition of some feed rich in protein, as alfalfa, soy-beans or skim-milk, and clover hay, cow-peas, bran, oil-meal, cottonseed-meal, gluten-meal, or any other feed rich in protein will undoubtedly give the same results. Kaffir is fast gaining in favor in the drier sections of Kansas and Nebraska, and with the alfalfa which is its complement will make these sections among the leading ones, not only in the production of pork but also milk and beef.

J. G. HANEY,

Assistant in Feeding and Field Experiments, Kansas Experiment Station.

## Vaccination of Hogs.

Editor Kansas Farmer:—The annual losses from hog cholera in the United States are unquestionably very heavy, for, although all diseases of swine are called cholera by people not familiar with them, scientific investigation has confirmed the opinion of our farmers that we have a wide-spread and destructive plague to which the term hog cholera may be appropriately applied. There are many forms of malignant diseases that go under the name of hog cholera. Three different forms of disease, however, are popularly included under the name: carbon or malignant anthrax, contagious plucro-enteritis, and epizootic catarrh, which has for years constituted a serious drawback to the swine-raising industry of America.

The researches of the Bureau of Animal Industry of the United States Department of Agriculture, together with those of bacteriologists throughout the land, conducted in the most thorough and systematic manner and with the aid of all the appliances of modern science, have shown that there is another disease called swine plague, which appears to be almost as common and fatal as hog cholera. So closely are hog cholera and swine plague allied to each other that it necessitates a microscopical study to distinguish the difference between the two diseases. They are not only similar in symptoms, but in their effect upon the bodies of the animals. They resemble each other from the fact that they are both caused by bacteria which must be combated by measures that will immune the hogs to these bacteria and stop the multiplication of the germs. To know that we have either hog cholera or swine plague to deal with, we are safe in carrying into effect the method recommended herein, because the agent which destroys the effect of these germs will destroy the other.

The symptoms of these serious dis-

eases of swine are not so perceptible as with larger animals. In the most severe and acute cases the animals die suddenly. Such cases are seen most when the disease first appears. In a greater per cent of the cases, the progress of the malady is slower.

Bacteriological examination as the final test has identified the appearance of bacteria in the system of a diseased animal which is the direct cause of cholera and swine plague. The cholera germs are slightly longer and more elongated than those of swine plague.

With all diseases of this nature, prevention is cheaper, and in every way more satisfactory, than medical treatment.

The only scientific, economical, satisfactory, and practical way of contending with hog cholera is to prevent it.

While cholera is so fatal after it has once taken hold it is probably one of the easiest of all animal diseases to prevent, and it is entirely within the bounds of truth to say that no industrious hog-raiser need fear any loss from hog cholera if he will go to the slight trouble and expense necessary for its prevention. This is done by vaccinating your entire herd with cholera vaccine serum, the original, perfect preventive remedy for cholera. It acts precisely on the same principle as vaccinating against smallpox—prevents the disease.

Vaccination in general consists of introducing into the system an attenuated virus of the specific disease, which confers such immunity that the subject is thoroughly protected against a subsequent attack by the ordinary means of infection or contagion. The virus used for this purpose is derived directly from the germ of the disease in question and is called "serum" and no substitute derived from any other source can be properly called such. Vaccinating the human family as a preventive of smallpox is not even comparatively modern. It is said to have been practiced in China 1000 B. C. It was introduced into England in 1721. Vaccination is applied in many diseases at the present day, namely, diphtheria, tetanus (lockjaw), blackleg, etc. These preventive remedies are already well known and have been successfully used throughout the civilized world for several years past. So far as hog cholera is concerned, thousands of hogs have, during the past few years, been treated and saved by being vaccinated, and the day is not far distant when the question will be asked by the stock buyer: "Have your stock hogs been vaccinated against cholera?"

W. J. GILLET, M. D.

Parsons, Kans.

## American Live Stock Association.

Attention is invited to the following notice of the annual meeting of the American Live Stock Association to be held at the Auditorium Hotel, Chicago, at 9 o'clock a. m., Thursday, November 23, 1899.

The American Live Stock Association was organized November 20, 1891, at a meeting held at the Grand Pacific Hotel by delegates appointed by the several horse, cattle, sheep, and swine breeders' associations.

The association had perfected its organization for the purpose of promoting the objects set forth in its constitution when the proposition to hold the World's Fair in Chicago was discussed.

It was deemed wise by the dairy, poultry, and other interests pertaining to the animal industry of the country, in view of the proposed exhibition of live stock at the World's Fair, to greatly enlarge the scope of the work as originally outlined by the promoters of the American Live Stock Association, who had called a meeting and perfected the National Live Stock Association, which, under the direction of the committee of eighteen, most creditably and acceptably represented the live stock industry of the United States in connection with the World's Columbian Exposition.

The depression in the breeding and sale of live stock in the years following the World's Fair, made it impracticable to carry out the objects of the original organization, which is now receiving encouragement to proceed with its work from all the interests it represents.

The call for the meeting referred to above, reads as follows:

Office of the American Live Stock Association, Springfield, Ill., October 2, 1899.

To the Members of the American Live Stock Association:

The annual meeting of the American Live Stock Association will be held at the Auditorium Hotel, Chicago, at 9 o'clock a. m., Thursday, November 23, 1899.

The constitution provides, in article

"Honor is Purchased  
by Deeds We Do."

Deeds, not words, count in battles of peace as well as in war. It is not what we say, but what Hood's Sarsaparilla does, that tells the story of its merit. It has won many remarkable victories over the arch enemy of mankind—impure blood. Remember

**Hood's Sarsaparilla**  
Never Disappoints

Hood's Pills cure liver ills; the non-irritating and only cathartic to take with Hood's Sarsaparilla.

3, section 4, that each member of this association shall be entitled to representation at the annual meeting by two members, to be selected at the annual meeting of the respective organization; one of which shall be elected each year to serve for a term of two years or until their successors are elected.

Section 5 provides that "The president of each association represented in this organization, shall be ex-officio a delegate to the annual meeting and be entitled to the same privileges at said meeting as the other two representatives of said organization."

Section 6 provides that "Each member of this association shall be entitled to three votes on all questions considered at the annual meetings."

T. W. HARVEY, President.

CHARLES F. MILLS, Secretary.

The object of the American Live Stock Association, as set forth in article 2 of the constitution, is as follows:

## ARTICLE II.—OBJECTS.

The object of this association shall be to promote the general interests of the breeders of pure-bred and recorded stock, and to secure the coöperation of the members composing the same, especially in the work of—

Section 1. The general adoption of a higher standard of purity in breeding, and a corresponding improvement in the quality of sires and dams to entitle the same to registry in the respective pedigree records.

Sec. 2. To confer and advise with the national and State authorities concerning the rules and regulations pertaining to importation and exportation of live stock of all kinds to and from the United States, and of inter-State traffic in and marketing the same; the adoption of sanitary measures; the punishment of fraud in the fabrication of pedigree and such other legislation as in the opinion of the management will tend to promote the prosperity of the animal industry.

Sec. 3. The extension of the commerce in the improved breeds of domestic animals, and the development of new and profitable markets for our surplus stock and meat products in home and foreign fields.

Sec. 4. The encouragement of breeders to attain to a higher standard in the breeding of animals of individual excellence, by the holding of annual exhibitions and the offering of liberal prizes for the best specimens of the several breeds shown. To consider and advise with the officers of fairs and other organizations interested in the exhibitions and the offering of liberal products. To coöperate generally in such lines of work as may tend to advertise to the best advantage, and extend the trade in domestic animals of the breeders of the United States.

Sec. 5. To present, foster, and protect in such other ways as may be deemed advisable, all the associations which are organized and maintained for the purpose of perpetuating and recording the pedigree of animals of a pure and recognized breed.

## DROP-HEAD MACHINES, \$13.50.

\$13.50 buys this "Hines" Drop-Head Sewing Machine fully guaranteed by us for 30 years—complete with full set of best attachments. This Machine is equal to others advertised for \$40.00, is made with piano polished solid oak cabinet, best head made and every known improvement.

Catalogue of Pianos, Organs, Sewing Machines and Bicycles, Lithographed Catalogue of Carpets, Rugs and Draperies, and General Catalogue of everything to Eat, Wear and Use, are all free. Which do you want? Address this way:

**JULIUS HINES & SON,**  
BALTIMORE, MD. Dept. 16



THE HEREFORD COMBINATION SALE.

The great sale, which occupied the forenoon of the show week, was fully in keeping with the unparalleled exhibition. In quantity and quality of offering, in prices realized, in averages made, and in the general enthusiasm of both buyers and sellers the event has never before been equalled in Herefordom.

WHAT THE AVERAGES WERE.

The total sum realized for the week on an offering of 288 head, very largely young stuff, was \$91,110, an average of \$316.35 per head. Of this 152 bulls brought \$46,495, or an average of \$305.89, while the 136 cows pushed up the general rate by an average price of \$328.05.

The high records of the cows and bulls for the week are as follows:

Table with 2 columns: Item description and Price. Includes 'One cow sold at \$2,500', 'One bull sold at \$1,625', etc.

The highest ten cows averaged \$1,072. One bull sold at \$1,950. One bull sold at \$1,400. Two bulls sold at \$1,200.

The highest ten averaged \$1,125.

ARMOUR ROSE GOES TO NEVADA.

As has been already heralded by telegraph throughout the newspaper domain, Armour Rose 75086 was the top of the sale by a good wide margin and her disposal at the block to John Sparks, owner of the great Alamo Ranch in Nevada, was the event of the week.

THE MOST NOTABLE SALES.

The next most notable sale ring contest was for W. S. Van Natta & Son's bull calf, Aaron, vol. 21, who, on the first day of the show, won the Curtice special for the best bull in the sale.

In the next big price paid for a Hereford, John Sparks, of Nevada, figured again, but this time as seller. The cow was his Babe of Alamo 68789, by Earl of Shadeland 30th and out of Miss Wilton, by the great Beau Real.

The next highest price was \$1,400 paid by H. J. Fluck, Goodenow, Ill., for Peerless Wilton 39th, vol. 21, who was a close second to Aaron for the Curtice special.

Two bulls at \$1,200 each came next. Of these W. H. Curtice's Beau Donald 2d 89139 went to Col. C. B. Rhon, of Fort Worth, Texas, who secured him only after a hard fight with Colonel Slaughter, who is full of the spirit that made him bid \$5,000 for Sir Bredwell at the Sotham sale last spring.

Another bull whose sale brought out a great show of enthusiasm was W. S. Van Natta & Son's 2-year-old show bull, Lincoln 2d 74227, by Cherry Boy and out of Lady Lark by Star Grove 1st. This bull went to James Brothers for their Comiskey Ranch in Kansas at \$1,000.

Winona 70786, Thos. Clark's great 2-year-old show cow by his old bull, Lars 50734,

and out of an Anxiety 3d cow, went to John Sparks, of Reno, Nev., for \$950.

Beau Donald 3d 86140, one of the toppest of the fine string of Beau Donald calves offered by W. H. Curtice, brought another \$950 at the hands of J. C. Adams, of Moweaqua, Ill., and at the time he was sold broke the record of the week for bulls.

T. F. B. Sotham, who, with the others, evinced a strong liking for John Sparks's rugged blocky animals, secured one of the first offered—the bull, Wilton Alamo 6th 83769, by Wilton Grove and out of a The Grove 3d cow—for which he paid \$930.

The next bull in rank was Bonnie Prince 80097, the property of Mrs. Kate Wilder Cross, and the last of the original Sunny Slope herd. Although considerable sentiment entered into the bidding on this bull and the scene in this one ring was foundation enough for a drama, the bidding, which closed with H. C. Mortimer's offer of \$910, could hardly be said to exceed the value of the calf.

Alphonso 82153, by Shadeland Dean and out of a Chesterfield 56697 cow—bred and owned by J. S. Lancaster & Sons, whose sale record was among the highest—went, for an even \$900, to J. C. Sawyer, of Lexington, Mo.

Josie Alamo 68813—another of John Sparks's "sage brush Herefords," who was good enough to be an improvement in the greatest prize-winning herd of the year, was bought by F. A. Nave for \$880.

Wilseye 3d 78666, a granddaughter of Beau Real 3d, owned by F. A. Nave, went to John Sparks for \$850.

The bull, Elberta 88167, bred by Tom Ponting and owned by F. A. Nave, sold for \$810 to M. S. Gordon, Weatherford, Texas. Elberta is by Ben Imboden.

Matchless Theodore, by Theodore, by Wild Tom and out of C. A. Stannard's wonderful cow, Lady Matchless 2d, was bought by Mr. Mortimer for the Stanton Breeding Farm in Nebraska, for \$775.

Imported Deiance 83705, by Boniface, by The Grove 3d, by Horace, owned by John Sparks, sold for \$760 to George Leigh, Aurora, Ill., his purchase being the feature of the first day's sale.

Miss Betsy 79371, by Cherry Boy, owned by W. S. Van Natta & Son, sold to F. C. Schain, Atlantic, Ia., for \$705.

Columbus 12th 86595, by Columbus, owned by Clem Jones, sold to George Tuggle, of Kansas City, for \$700.

Anita 33955, a 2-year-old, by Harold 2141, owned by Thos. Clark, sold to T. F. B. Sotham for \$700.

The Grove 1st, vol. 21, owned by F. A. Nave, and by his champion bull, Dale, sold to John Sparks for \$650.

Blanche Alamo 68791, a 3-year-old cow, owned by John Sparks, and by his Earl of Shadeland 30th, sold to K. B. Armour for \$650.

Aspasia H., vol. 21, a Hesiod 30th heifer owned by N. W. Leonard, sold to H. B. Watts & Son, of Fayette, Mo., for \$610.

Beau Donald 17th, vol. 21, bred by W. H. Curtice and owned by H. D. Martin, sold to John W. Lowell for \$600.

Dolly 6th 71899, 2-year-old cow owned by John Hooker, and by his bull Java 64045, sold to Frank Rockefeller, of Cleveland, to go on his Klowa (Kans.) ranch, for \$600.

THE CATTLE WENT EVERYWHERE. The distribution of purchases was perhaps the widest and most general in the history of auction sales, cattle going to Maine, Oregon, Nevada, Ohio, Texas, Wisconsin, Wyoming, and nearly every State between. Texas was perhaps the heaviest buyer, getting over 50 head at a cost of something near \$20,000, while Kansas and Nebraska approached her very closely in numbers and price.

CATTLE THAT CAME TO KANSAS. Of the 289 head sold, 51, including many of the best, came to Kansas. Most notable of these were the purchases of Frank Rockefeller, of Cleveland, O., to go on his ranch at Klowa. They consisted of the \$1,625 cow, Babe of Alamo, already mentioned; the \$600 cow, Dolly 6th, and the \$425 heifer, Miss Plutarch, bred and owned by the well-known Douglas County, Kans., firm, Steele Brothers, of Belvoir.

The heaviest Kansas purchasers were Jones Brothers, of Comiskey, who secured 10 head, all cows and heifers but 1, to go on their Hereford ranch. The exception was one of the notable things of the sale, the grand 4-year-old bull, Lincoln 2d, whose auction price was \$1,000. The cows and heifers with their purchase prices were as follows:

Blanche 75212, owned by J. M. Curtice, \$355; Daisy 67482, and calf, J. M. Curtice, \$355; Madame Sans Gene 75116, C. A. Stannard, \$430; Fair Lady 82714, N. E. Mosher & Son, \$195; Victoria 2d 76457, O. Harris, \$250; Bonnie 73109, H. F. Pinnell, \$200; Alice 2d 87062, John Hooker, \$335; Fowler 86598, Clem Graves, \$265; Young Snowdrop 82107, \$275.

Barnes & Bircher, of Pratt, made three purchases, all young cows, as follows: Fatima 3d 82101, owned by Z. T. Kinsell, \$315; Prima 72044, H. J. Fluck, \$310; Garnet 83933, Steele Brothers, \$310.

J. F. Speck, Nortonville, bought a cow and 2 heifers, whose names and prices follow, respectively: Magnolia 65218, owned by L. B. Chappell, \$235; Red Rose 2d 79243, and calf, H. C. Taylor, \$270; Luella 80026, H. D. Adkisson, \$180.

Duff & Son, of Horton, bought the following bull and 2 heifers, for the prices given: Christmas, vol. 21, owned by John Garnett, \$200; Brightlight 85881, Morris Cook, \$200; Miss Paine, vol. 21, Charles E. Ford, \$120.

Two bulls purchased by R. B. Edwards, of Kinsley, were Prince, vol. 21, owned by F. H. Tuck, for \$105, and North Star 68930, owned by Steele Brothers, for \$270.

Fritz Oulder, of Medicine Lodge, also bought two bulls, Lord Ronald, vol. 21, owned by G. F. Mathews, for \$205, and Mount Gilead Lad 84405, owned by J. A. Wilkerson, for \$225.

Of the single sales the most notable was that made to L. H. Sullivan, of Cedarvale, who topped the bids on W. H. Curtice's Beau Donald 4th 86141 at \$530; and to M. M. Holderman, of Chetopa, who bought for his "Rustler's Ranch" in the

the Territory, C. A. Stannard's cow Della 78830, at \$600.

The other single sales were: Bidwell 94322, owned by H. N. Lytton, to William C. Ortlinger, Medicine Lodge, for \$200.

General Lee 62195, H. C. Taggart, to M. A. Coles, Cedarvale, \$205.

Hector 26126, J. M. Curtice, to James Stone, Cedarvale, for \$225.

Brigham 85963, Fred Cowman, to M. H. Cogswell, Pretty Prairie, for \$205.

Fidelity, vol. 21, Louis Hothan, to G. K. Cogswell, Arlington, for \$160.

Jupiter 60817, John Garnett, to George L. White, Whiting, for \$270.

Fragally P. 8th 77881, H. F. Pinnell, to Fred Perkins, Oswego, for \$305.

Conqueror, vol. 21, F. H. Tuck, to Sims & Hodges, Fowler, for \$135.

Boabdil 71260, John Hooker, to Fred Cowman, Lost Springs, for \$250. (This finished bull stood fourth, the day after the sale, in a strong ring of 20 animals, and Mr. Cowman sold him before the show was over to William Humphrey, of Ashland, Neb., at a big profit on his investment.)

Marcus, vol. 21, John Garnett, to Mrs. E. W. Pinkston, Cedar Point, for \$200.

Midshipman 86784, Gudgeall & Simpson, to W. J. Tod, Maple Hill, for \$460.

Brenda, vol. 21, Fred Cowman, to J. B. Shields, Lost Springs, for \$250.

Cyrilla 88972, C. N. Whitman estate, to Albert Dillon, Hope, for \$275.

Sweet Marie 74255, W. B. Waddell, to B. M. Brown, Lost Springs, for \$400.

Chief 67641, William Tibbles, to William Dawson, Clements, for \$230.

Gen. Washington 81451, James A. Gibson, to L. C. Stine, Ottawa, for \$225.

Dandy, vol. 21, John Garnett, to John McCauley, Pleasanton, for \$140.

Prince Grove 82733, N. E. Mosher & Son, to A. Wangren, Vining, for \$155.

Earl B 3d, vol. 21, P. E. Spelman, to W. H. Burns, Lamar, for \$140.

Cervera, vol. 21, E. E. Countryman & Sons, to R. B. Miller, Clifton, for \$165.

Sabin 85820, W. A. Colt, to J. H. Kennedy, Frankfort, \$200.

Don Pedro 82154, J. S. Lancaster & Sons, to William Tibbles, Haddam, for \$230.

Della 81127, Fred Eason, to James Seeger, Vining, for \$200.

OTHER SALES BELOW \$600. The following list contains the names of animals bringing less than \$600, with the names of the owners, the purchasers, and the purchase prices:

Beau Laurel 80095, K. B. Armour, to T. F. B. Sotham, for \$350.

Milton 90583, L. B. Chappell, to Whittenberg Bros., Niangua, Mo., for \$175.

Glen 90850, Cornish & Patten, to K. B. Armour, for \$155.

Prince, vol. 21, R. E. Countryman & Sons, to R. L. Faulkner, Jamesport, Mo., for \$105.

Merry Briton, vol. 21, L. B. Chappell, to Joe Robinson, Mount Leonard, Mo., for \$215.

Alonzo 88953, C. N. Whitman estate, to Ball & Temple, Mobeetie, Texas, for \$225.

Frederick, vol. 21, R. E. Countryman & Sons, to Ball & Temple, for \$145.

DON'T!

Don't think if you buy a farm separator you must buy something complicated and hard to manage.



Don't think that because one kind of farm separator requires an hour to wash it that all do.

Don't think that constant repair bills are a necessity just because some one with a complicated separator has to pay them.

Don't think that some other farm separator is as good as the SHARPLES because an agent for the other condemns the SHARPLES.

Send for Catalogue No. 19. The Sharples Co., Canal & Washington Sts., CHICAGO. P. M. SHARPLES, West Chester, Pa. U. S. A.

Donald 80634, L. B. Chappell, to J. B. Gray, for \$180.

Beau Donald 10th, vol. 21, H. D. Martin, to J. B. Gray, for \$300.

Tom Clark, vol. 21, H. F. Pinnell, to Ball & Temple, for \$180.

Major Brook, vol. 21, H. N. Thompson, to Ball & Temple, for \$160.

Dandy 86561, James A. Gibson, to Ball & Temple, for \$195.

Marshall 80642, Morris Cook, to Wm. Powell, Channing, Texas, for \$300.

Gay Briton, vol. 21, L. B. Chappell, to James Middlesworth, Shelbyville, Ill., for \$190.

Beau Donald 13th, vol. 21, H. D. Martin, to Lewis & Co., Geneseo, Ill., for \$300.

Ohio, vol. 21, West & Duncan, to C. E. Ford, Manerva, O., for \$130.

Honest Venture 85030, H. D. Adkisson, to Geo. McGeeon, Huron, S. D., for \$150.

Condo, vol. 21, West & Duncan, to James C. White, Memphis, Tenn., for \$115.

Earl King, vol. 21, H. D. Adkisson, to James C. White, for \$200.

Editor 85745, L. B. Ashurst, to Pineville Land and Live Stock Co., Portland, Ore., for \$180.

Wingate, vol. 21, F. A. Nave, to Pineville Land and Live Stock Co., for \$185.

Filot 82157, J. S. Lancaster & Son, to W. H. Meyer, Henrietta, Texas, for \$235.

Lee, vol. 21, Jno. Garnett, to Ball & Temple, for \$175.

Archibald 16th 86063, C. A. Stannard, to W. F. Couther, Allendale, Ill., for \$300.

Frederick The Great, vol. 21, Scott & March, to S. B. McInnis, for \$300.

Crusader, vol. 21, K. B. Armour, to C. C. Slaughter, Dallas, Texas, for \$350.

Pride of the Grove 2d, vol. 21, Louis Hothan, to Stanton Breeding Farm, for \$130.

King, vol. 21, W. A. Colt, to B. C. Taber, Dallas, Texas, for \$205.

Stripes 3d, vol. 21, Makin Bros., to W. G. Swinney, Ash Grove, Mo., for \$200.

Jay Bird 2d, vol. 21, Louis Hothan, to Stanton Breeding Farm, for \$150.

John Jacob Astor 86072, C. A. Stannard, to E. H. Brewster, Wibaux, Mont., for \$300.

Good Friday, vol. 21, C. E. Ford, to B. C. Taber, for \$170.

Jack Frost, vol. 21, John Garnett, to G. L. Finn, Bedford, Ia., for \$205.



ard, to W. M. Kennedy, Appteton City, Mo., for \$450. Trinidad 89039, C. N. Whitman estate, to F. G. Oxsheer, for \$230. Zero, vol. 21, John Garnett, to F. G. Oxsheer, for \$210.

COWS.

Jewel 82147, H. F. Lamb & Sons, to David Walden, Danvers, Ill., for \$180. Cherry Pie 7th, vol. 21, H. N. Thompson, to Jacob Leininger, Arcadia, Neb., for \$200. Gay Wilton 82717, N. E. Mosher & Sons, to Whittgenburg Bros., for \$200. Lady Price 82721, N. E. Mosher & Son, to John W. Lowell, for \$190. Vestria, vol. 21, N. W. Leonard, to K. B. Armour, for \$560. Malago 89012, C. N. Whitman estate, to N Kirby, Savannah, Mo., for \$205. Priscilla 81137, Fred Eason, to W. P. Devol & Son, Butler, Mo., for \$200. Sunshine 89530, F. H. Tuck, to Wm. Green, Lexington, Ky., for \$110. Bona, vol. 21, Thos. Clark, to C. N. Cosgrove, Lesueur, Minn., for \$180. Gay Lass 76775, G. W. Harness Jr., to M. T. Burwell, Kansas City, Mo., for \$330. Celma Horace 4th, vol. 21, W. A. Colt, to W. P. Swinney, Ash Grove, Mo., for \$205. Mary's Cherry 52077, Louis Hothan, to F. A. Nave, Attica, Ind., for \$250. Chiquita 81123, Fred Eason, to W. P. Swinney, Ash Grove, Mo., for \$200. Columbine 10th, vol. 21, Fred Cowman, to T. F. B. Sotham, for \$350. Miss Rushir 86902, G. W. Harness, Jr., to T. F. B. Sotham, for \$450. Queen of Fairview 3d 82818, F. A. Nave, to John Sparks, Reno, Nev., for \$240. Lady Peace 81131, Fred Eason, to Ball & Temple, for \$175. Benson's Queen 83887, Steward & Hutcherson, to Jno, Hooker, New London, Ohio, for \$250. Pretty Lass 6th, vol. 21, Scott & March, to F. A. Nave, for \$350. Brunette, vol. 21, Steele Bros., to Aaron Hereford Cattle Co., Appteton City, Mo., for \$280. Leah 90855, Cornish & Patten, to J. S. Lancaster & Sons, Chandler, Mo., for \$275. Florence 2d, vol. 21, Scott & March, to R. A. Templeton, Tekamah, Neb., for \$300. Hygea Hesiod, vol. 21, N. W. Leonard, to J. S. Baskett, Fayette, Mo., for \$330. Molly Bawn 2d 63831, O. Harris, to C. C. Slaughter, for \$350. Bonny Lulu 13th, vol. 21, Scott & March, to Wallace Libby, Ottawa, Ill., for \$405. Crocus 89424, Steward & Hutcherson, to W. S. Van Natta & Son, Fowler, Ind., for \$430. Jewel Hesiod, vol. 21, N. W. Leonard, to F. A. Nave, for \$530. Lucile Earl 2d, vol. 21, N. W. Leonard, to T. F. B. Sotham, for \$500. Misty Morning 82149, H. F. Lamb & Sons, to T. F. B. Sotham, for \$250. Regalia 89027, C. N. Whitman estate, to T. F. B. Sotham, for \$210. Silver Star, vol. 21, Scott & March, to Geo. W. Shinn, Lathrop, Mo., for \$200. Nettie 72558, A. W. McConnell, to R. A. Templeton, Tekamah, Neb., for \$400. Nora Alamo 78927, John Sparks, to K. B. Armour, for \$370. Alice 71984, John Hooker, to Minier Bros, Craig, Neb., for \$400. Vesta Hesiod, vol. 21, N. W. Leonard, to C. B. Smith, Fayette, Mo., for \$305. Hortense Briton 89615, W. B. Waddell, to T. F. B. Sotham, for \$405. Miss King 11885, G. W. Harness, Jr., to T. F. B. Sotham, for \$400. Hazel 85029, H. D. Adkisson, to S. L. Standish, Hume, Mo., for \$145. Beauty, vol. 21, West & Duncan, to S. L. Standish, for \$126. Beauty Star 80623, L. B. Chappell, to S. L. Standish, for \$225. Matilda A. 67004 and calf, Geo. Hughes, to McClellan & Watts, Hardiman, Mo., for \$265. Miss Beecher 3d 43547, H. F. Pinnell, to Wm. T. Fishback, St. Patrick, Mo., for \$140. Violet, vol. 21, P. E. Spelman, to Geo. W. Shinn, Lathrop, Mo., for \$130. Clara Barton 80654, C. A. Stannard, to James M. Spurgeon, Kohoka, Mo., for \$255. Maude Idell 84079, H. N. Thompson, to K. B. Armour, for \$230. Evangeline 78407, and calf, Scott & March, to J. S. Lancaster & Sons, Chandler, Mo., for \$205. Gypsy Real 68425, Murray Boocock, to Dr. J. E. Logan, Kansas City, for \$300. Tulp 5th 61603, Gudgell & Simpson, to James Tuggle, Gallatin, Mo., for \$260. Rose Blossom 71886, G. W. Harness, to Stanton Breeding Farm, for \$355. Belle Donald 8th 86153, W. H. Curtice, to M. B. Sullivan, Spaulding, Neb., for \$260. Miss Clark 10th, vol. 21, H. F. Pinnell, to M. B. Sullivan, for \$170. Daisy 75294, H. F. Pinnell, to Stanton Breeding Farm, for \$355. Sprightly Sarah 89618, W. B. Waddell, to Stanton Breeding Farm, for \$370. Chance 89627, P. E. Spelman, to W. H. Hokes, Rolfe, Ia., for \$190, who also bought the following six: Lady Ridgewood 88999, C. N. Whitman estate, for \$175; Annie 82098, Z. T. Kinsell, for \$210; Columbia 88412, H. F. Pinnell, for \$175; Annette 50631, L. B. Chappell, for \$215; Purity 79242, H. C. Taylor, for \$195; Lady Rayner 63830, O. Harris, for \$350. Belle Donald 4th 86149, W. H. Curtice, to A. Rohl & Son, Iowa City, Ia., for \$355. Belle Donald 2d 86147, W. H. Curtice, to A. R. Ohl & Son, for \$355. Cuba 86423, C. E. Ford, to John W. Lowell, for \$140. Silver Shade 3d, vol. 21, W. A. Colt, to John W. Lowell, for \$130. Lovely, vol. 21, West & Duncan, to John W. Lowell, for \$155. Ida May 81852, Geo. P. Henry, to John Sparks, for \$310. Bess Shadeland 3d, vol. 21, W. A. Colt, to Campbell Russell, Bennett, I. T., for \$145. Lady Lowell 80025, H. D. Adkisson, to Ed Hockaday, Kingfisher, Okla., for \$250. Gazette 55883, Morris Cook, to W. H. Meyers, for \$200. Marietta 15th 81661, Gudgell & Simpson, to Thos. Clark, for \$385. Annabel 88163, West & Duncan, to Thos. Clark, for \$255. Philippina 80985, C. A. Stannard, to Thos. Clark, for \$450. Alta 2d 85879, Morris Cook, to Thos. Clark, for \$205. Pearl 86600, Clem Graves, to J. C. Adams, Moweauqua, Ill., for \$270.

Miss Brigadier 86929, O. Harris, to H. J. Fluck, for \$400. Lady Maggie 89194, Thomas Smith, to John C. Robinson, Evansville, Wis., for \$300. Princess 71884, G. W. Harness, to F. A. Nave, for \$360. Pretty Lady 20th 81688, Gudgell & Simpson, to W. S. Van Natta & Son, for \$425. Dewdrop 82145, H. F. Lamb & Son, to Pineville Land & Live Stock Co., for \$130. Freda, vol. 21, H. N. Thompson, to Pineville Land & Live Stock Co., for \$150. Columba 88165, F. A. Nave, to T. F. B. Sotham, for \$200. Bloom 82144, H. F. Lamb & Sons, to T. F. B. Sotham, for \$175. Lady Moffat, vol. 21, W. P. Stovell, to Whittgenburg Bros. of Niangua, Mo., for \$150, who bought the following four also: Miss Julia, vol. 21, W. T. Stovall, for \$130; Little Dot 82103, Z. T. Kinsell, for \$175; Ethel, vol. 21, West & Duncan, for \$105; Fern Leaf 82146, H. F. Lamb & Sons, for \$145. Lady Wilton 89000, C. N. Whitman estate, to K. B. Armour, for \$220. Alix 88952, C. N. Whitman estate, to K. B. Armour, for \$200. Princess Royal 56645, J. M. Curtice, to O. Harris, for \$220. Rosa Bonheur 85888, Morris Cook, to Thos. Clark, for \$250. Lady Grove 82720, N. E. Mosher & Son, to B. A. Hathaway, Chicago, for \$175. Preece 90807, Cornish & Patten, to John W. Lowell, for \$155. Trilby 70049, H. D. Adkisson, to John W. Lowell, for \$155. Belle Donald 10th 86155, W. H. Curtice, to A. R. Ohl & Son, for \$375. Josie B. 70204, J. M. Curtice, to A. R. Ohl & Son, for \$285. Golden Rod 4th 79234, H. C. Taylor, to C. E. Harper, Corydon, Ia., for \$140. Groves Bell 89612, W. B. Waddell, to J. Leininger, Arcadia, Neb., for \$200. Bessie G. 85816, W. A. Colt, to M. B. Sullivan, Spaulding, Neb., for \$195. Maude 61656, and calf, G. W. Harness, Jr., to C. W. Graves, Bunker Hill, Ind., for \$250. Thelma 80889, Morris Cook, to W. S. Van Natta, for \$350.

AVERAGES MADE BY BREEDERS. The necessity of considering the ages of animals, the spirit of the sale, and other circumstances incident to the time is too evident to allow an attempt at estimating the comparative quality of the herds by the averages made at this sale. The averages, however, help to impress the fact that no clique of breeders had a monopoly on prices, but that good Herefords are universally good property. The approximate averages on representative stuff are therefore given for a few herds: John Sparks, Reno, Nev., on 8 head...\$660 Curtice & Martin, Eminence, Ky., on 16 head ..... 460 W. S. Van Natta & Son, Fowler, Ind., on 4 head ..... 1,130 F. A. Nave, Attica, Ind., on 6 head ..... 525 Gudgell & Simpson, Independence, Mo., on 5 head ..... 385 C. A. Stannard, Emporia, Kans., on 8 head ..... 450 John Hooker, New London, Ohio, on 6 head ..... 361 Fred Cowman, Lost Springs, Kans., on 6 head ..... 245 Wm. Tibbles, Haddam, Kans., on 6 head ..... 225 Steele Bros., Belvoir, Kans., on 6 head ..... 310 Thos. Clark, Beecher, Ill., on 5 head ..... 745 K. B. Armour, Kansas City, on 6 head ..... 780 C. N. Whitman estate, Leavenworth, Kans., on 6 head ..... 225

New Live Stock Rules.

Issued by the Kansas Live Stock Sanitary Commission. Commencing November 1 and ending December 31, 1899, no cattle shall be admitted into Kansas, or the Kansas City stock yards, except for immediate slaughter, from south of a line described in the governor's proclamation of February 25, 1899, which is the same as the federal quarantine line, until after careful inspection by an agent appointed by this commission and found free from southern cattle ticks (Boophilus bovis), and receiving a permit from said inspector setting out these facts, a copy of such permit must be attached to the stub of the way-bill accompanying said cattle if they are shipped by rail, or carried by the owner or party in charge, if they are driven in. All cattle shipped by rail shall be unloaded for inspection at points hereinafter named, should the inspector deem it necessary for a more perfect examination.

Cattle may be shipped by rail through and across the State of Kansas into other States, but in such cases they will be inspected, fees charged, and, if ticky, cars will be tagged "Southern Cattle," and the cattle will be allowed to go forward under the rules and regulations governing the movement and transportation of southern cattle; if not found ticky they will go forward as natives.

All movements of cattle not specifically set out in this bulletin shall be governed by the rules and regulations for the movement of cattle adopted April 28, 1899.

During the months of November and December, all cattle from territory scheduled in the rules and regulations adopted April 28, 1899, as north of quarantine line, can be moved without restriction, except the same be moved south of said quarantine line and afterwards desire to come north of the same; in that case they must comply with rule 1 of this bulletin.

No cattle from the southern or quarantine division of the Kansas City stock yards shall be moved to other points in Kansas. All stock yards or loading pens in Kansas that have been set apart during the year 1899 for the use of southern or infectious cattle for feed and rest, shall be continued for that purpose only; and in no case shall cattle accompanied by health certificates issued by agents of this commission, be unloaded in said yards.

The points upon the southern line of Kansas and other places at which cattle can be inspected for admission into Kansas under these rules and regulations are as follows: Kiowa, Caldwell, Arkansas City, Elgin, Caney, Coffeyville, Chetopa, Baxter Springs, in the State of Kansas, and Neosho and Thayer, in the State of Missouri. Cattle will not be admitted at

other points than the above named. When parties desire to drive in, they must pass through these points for inspection. An inspection fee of 3 cents per head will be charged on all cattle coming into or through the State of Kansas or to the Kansas City stock yards, during the time this bulletin is in force and effect; except those shipped to the southern division of the Kansas City stock yards for immediate slaughter in cars tagged "Southern Cattle." This bulletin takes precedence over the rules and regulations issued by this commission April 28, 1899, in all matters specifically mentioned herein and will be followed by transportation companies and others desiring to bring cattle into Kansas from points south of quarantine line. All railroad, live stock, transportation and stock yard companies, their employees and all other persons are hereby forbidden to transport, drive or in any way handle cattle in Kansas, except in compliance with the foregoing rules, under the pains and penalties of the statutes.

Publisher's Paragraphs. The Sure Hatch Incubator Company, of Clay Center, Nebraska, have a large force of workmen employed at their shops, and expect to keep them busy for many months to come in order to supply the growing demand for their incubators. Write them for catalogue which they have recently issued.

The New England Magazine for November contains among its important illustrated articles a graphic account of "The Great Boston Fire of 1872," written by Mr. Robert G. Fitch of the Boston Transcript. The article is one of unique value, illustrated as it is with excellent reproductions from photographs made in many cases during the progress of the conflagration, and containing interesting reminiscences of many who then witnessed the destruction of so large a portion of Boston's business district.

A moisture system capable of regulation and an original method of restoring air to its normal condition by recharging it with oxygen and moisture before it enters the egg chamber are two of the many good points of the new incubator advertised by the Klondike Incubator Co., of Des Moines, Ia. A perusal of their 1900 catalogue convinces one that they have a superior hatching machine. They are also manufacturing a brooder with a new method for warming chicks. Poultry-raisers should write them for catalogue, which is full of interesting matter.

Fairbank's Fairy Calendar for 1900 is a beautiful six-piece art calendar, 10 by 12 1/2 inches in size, on heavy plate stock. There are six different designs (one on each sheet) elegantly lithographed in colors and tied with silk ribbon. These designs are original water color paintings by one of America's best artists, and show pretty children in the uniform of our navy, cavalry, artillery, infantry, etc. They are strikingly beautiful and will please everybody. This calendar is equal to those usually retailed for 50 cents to \$1.00 in the leading art and stationery stores throughout the country. By sending your name and address to The N. K. Fairbank Company, Chicago, Ill., and enclosing five (5) Fairy Soap Wrappers, or 10 cents in stamps to cover expense of wrapping and mailing, you will be able to obtain a copy of this beautiful calendar.

For a clear complexion, bright sparkling eye and vigorous digestion, take PRICKLY ASH BITTERS. It puts the system in perfect order.

In the Kentpcky Feud Belt.—Stranger "Have you lived long in this section?" Native—"No sah. I am a gentleman, sah! And it is impossible for gentlemen to live long in this section, sah."—Chicago Times-Herald.

THE STRAY LIST.

- FOR WEEK ENDING OCT. 19, 1899. Elk county—J. A. Benson, Clerk. MARE—Taken up by J. B. Mead, in Paw Paw tp., October 9, 1899, one dark bay mare, with saddle or harness marks; valued at \$3. FOR WEEK ENDING NOV. 2, 1899. Osage County—Wm. H. Thomas, Clerk. HEIFER—Taken up by C. H. Brechisen, in Valley Brook tp., October 12, 1899, one 4-months-old red heifer calf; valued at \$10. Morris County—M. J. Kimmel, Clerk. HORSE—Taken up by H. E. Hagar, (P. O. Council Grove City), September 23, 1899, one bay horse, about sixteen hands h. g. left fore foot white, both hind feet white, white strip in forehead; valued at \$15. Marion County—Ira S. Sterling, Clerk. CALF—Taken up by John Young, in Colfax tp., (P. O. Ramona), October 10, 1899, one red heifer calf with white spots; valued at \$10.

FREE SILK DRESS

Full 10 to 15 yards of beautiful silk. Black, brown, blue, green or pink, in light or dark shades. Here is an honest advertisement. No beating around the bush. We make our offer of a silk dress free in plain English & we guarantee to send it with a solid gold laid mercury diamond breast pin which we give absolutely free to every person answering this advertisement who will sell only 6 boxes of our Positive Corn Cure at 25 cts. a box. If you agree to do this, order save to-day & we will send it by mail, when sold you send us the \$1.50 and we send you this handsome present exactly as we agree same day money is received. We make this extraordinary inducement to convince you that we have the best Corn Cure on earth. There is no chance about it, if you comply with the offer we send you; the silk dress will be given absolutely free full 10 to 15 yds. any color you desire. Don't pay out your good money for a handsome dress while you can get one free for selling our wonderful Remedies. Address at once MFE'S SUPPLY DEPT. H, No. 65 Fifth Ave., New York City.



KLONDIKE INCUBATOR CO., Box 300, Des Moines, Iowa.

20 GOLD PIECES GIVEN to Ladies, Girls and Boys, distributed with our Soap. Write to-day for particulars & Catalog of over 100 Free Premiums, Watches, Dress Goods, Suits, Bicycles, Conches, Cloaks, Etc. F. Parker, 208 S. Clifton St., Chicago.

GOLDOMETER for locating Gold, Silver and other minerals in a pocket case; also rods and Spanish needles. Catalogue, 2c. stamp. B. G. Stauffer, DEPT. K. F., HARRISBURG, PA.

To KNOW, Read The Central Missouri Farmer, Eldon, Mo., to learn about Western Farming. Monthly, 25 cents a year. Free sample copies.

For Farm Loans In Eastern Kansas and Oklahoma at favorable rates see or write The Deming Investment Company Real Estate Building, Topeka, Kansas.

NOTICE. If you become a member of The United States Co-operative Boot and Shoe Purchasing Association you can save 33 1/2 per cent on all boots and shoes you buy for yourself and family. For instructions how to join the Association, full information concerning it, and illustrated book on shoes, send your address and ten cents to E. H. TILTON, Secretary, 105 Summer Street, Boston, Mass.

FREE Our NEW Illustrated Catalogue of MUSICAL INSTRUMENTS will be sent on application to any address. THE W. F. ROEHR MUSIC CO., TOPEKA, KANSAS.

GOVERNMENT POSITIONS 8,000 APPOINTMENTS were made last year to Civil Service places, and a larger number is pending for 1900. We prepared BY MAIL a large per cent of the successful ones for the examination, and the lucky ones for 1900 will be largely those whom we assist. Let us assist you. Send for free catalogue No. B-49. COLUMBIAN CORRESPONDENCE COLLEGE, 225 Pennsylvania Ave., S. E., Washington, D. C.

BUGGIES AT OLD PRICES. It is tough on the factory, but they admit our option on Buggies is good. "Their loss is your gain." A BIG ADVANCE has already been made, but we will sell these goods at old prices. First come first served. Send for free catalogue of Plows, Harrows, Disc Harrows and Other Goods selling at old prices until Jan. 1st, 1900 only. Hapgood Plow Co., Alton, Ill. Only Plow Factory in U.S. selling direct to Farmer.

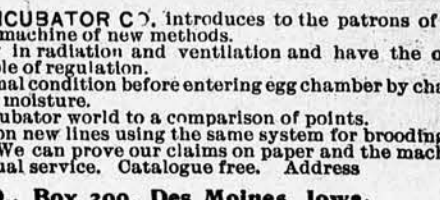
FLEMING'S LUMP JAW CURE. Easily and thoroughly cured. New, common-sense method, not expensive. No cure, no pay. FREE. A practical, illustrated treatise on the absolute cure of Lump Jaw, free to readers of this paper. Fleming Bros., chemists, Union Stock Yards, Chicago, Ill.

USE LOOMIS' LATE IMPROVED "CLIPPER" DRILLER. The result of 30 years' experience in Well Drilling. LOOMIS & NYMAN, Tiffin, Ohio.

THE SURE HATCH INCUBATOR has late patented improvements that make them leaders. We make but one grade "the best." We have but one price "the lowest." We pay the freight. . . . . to raise broilers, or how to get eggs when eggs are hatched, etc. The book is finely illustrated. Until January 1, we mail the catalogue free to any address. SURE HATCH INCUBATOR CO., Clay Center, Nebraska.

FREE SILK DRESS

Full 10 to 15 yards of beautiful silk. Black, brown, blue, green or pink, in light or dark shades. Here is an honest advertisement. No beating around the bush. We make our offer of a silk dress free in plain English & we guarantee to send it with a solid gold laid mercury diamond breast pin which we give absolutely free to every person answering this advertisement who will sell only 6 boxes of our Positive Corn Cure at 25 cts. a box. If you agree to do this, order save to-day & we will send it by mail, when sold you send us the \$1.50 and we send you this handsome present exactly as we agree same day money is received. We make this extraordinary inducement to convince you that we have the best Corn Cure on earth. There is no chance about it, if you comply with the offer we send you; the silk dress will be given absolutely free full 10 to 15 yds. any color you desire. Don't pay out your good money for a handsome dress while you can get one free for selling our wonderful Remedies. Address at once MFE'S SUPPLY DEPT. H, No. 65 Fifth Ave., New York City.



KLONDIKE INCUBATOR CO., Box 300, Des Moines, Iowa.



## The Home Circle.

### ONE DAY.

Oh, heart of mine, through all these perfect days,  
Whether of white Decembers or green Mays,  
There runs a dark thought like a creeping snake,  
Or like a black thread, which by some mistake  
Life has strung the pearls of happy years:  
A thought which borders all my joy with tears.

Some day, some day, or you, or I alone,  
Must look upon the scenes we two have known,  
Must tread the self-same paths we two have trod,  
And cry in vain to one who is with God,  
To lean down from the Silent Realms and say,  
"I love you," in the old familiar way.

Some day—and each day, beautiful though it be,  
Brings closer that dread hour for you or me,  
Fleet-footed Joy, who hurries time along,  
Is yet a secret foe who does us wrong.  
Speeding us gaily, though he well doth know  
Of yonder pathway where but one may go.

Ay, one will go. To go is sweet, I wis—  
Yet God must needs invent some special bliss  
To make His Paradise seem very dear  
To one who goes and leaves the other here.  
To sever souls so bound by love and time,  
For any one but God, would be a crime.

Yet Death will entertain his own, I think.  
To one who stays, life gives the gall to drink.

To one who stays, or be it you or me,  
There waits the Garden of Gethsemane.  
O dark, inevitable and awful day,  
When one of us must go and one must stay!  
—Ella Wheeler Wilcox, in the Pall Mall Magazine.

### THE MAGICIAN.

How many of the young readers of Kansas Farmer ever saw a real, live magician? You have doubtless all read about them and the wonderful things they do.

How many of you know what a magician is? or what magic is? Please, right here, fold up the paper and shut your eyes and try if you can answer these two questions: What is magic? and what is a magician?

In Persia a good many hundred years ago, there were a sect of men, wise for their times, who were sometimes called priests, but better known as the magi. It was supposed at that time that they possessed extraordinary knowledge and power. They claimed the power to do what we might call miracles, that is things that could not be done without the help of spirits or some supernatural beings; things that ordinary people could not do. In later years, certain men, in order to make money, went about giving entertainments in what we now call magic, or sleight-of-hand, and called themselves magicians. They were also often called sorcerers, and conjurers, necromancers, and enchanters. We now call them all, simply magicians. And many of them go about the country giving entertainments in what is called natural magic. That means experiments produced by natural laws, such as gravity, the laws of light, heat, attraction and repulsion, the laws of optics and acoustics, etc. These experiments consist in deluding the senses of sight and hearing. The magician does something that makes you think that something is, which, in reality, is not. That is, it is not as you thought it was. For instance, he makes you believe that he can suspend a man or woman in mid-air without anything to hold them there except his magical power. By deceiving your senses he makes you think that the watch he borrows from you can strike like a clock although you know perfectly well that there is no bell nor striking apparatus in the watch, and yet, when he holds it up before you, you actually hear something striking and the sound seems to come from the watch.

Some magicians have a special aptitude for what are called sleight-of-hand tricks. That is, they handle something, such as a coin or a ball, an orange or an egg, a handkerchief or a flower, in such a dextrous way that they make it appear or disappear at will or they deftly convey it from one box or cup, or goblet to another without your seeing how it is done, though being done right before your eyes.

Other magicians have a gift for mechanical illusions, and others for electrical, or chemical, and some combine all forms of deception of the senses in one combination entertainment.

Recently we had in Topeka, Leon Herrmann, the young nephew of the celebrated Alexander Herrmann, one of the world's most famous and delightful conjurers. Let me tell you some of the things he did, and see if any of you

can repeat them for the edification of your friends.

He borrowed a man's hat and held it in his left hand while with his right hand he picked half dollars in rapid succession from his coat, his shoe sole and from the heads and hands and ears and noses of many people in the audience, and dropped them in the hat. Everybody heard them clink as they dropped into the hat, and when they were emptied out onto a large platter, people's eyes stuck out at the sight of such rapid money-making.

He took a white rabbit out of a glass box, wrapped it in several thicknesses of paper, gave it to a man in the audience to hold above his head. Then he placed 15 or 20 balls in another box on the stage and covered it with a handkerchief and placed another handkerchief over the empty rabbit box, then fired a pistol at the man with the rabbit in the paper, and when the roll of paper was examined it was found empty, the balls were found in the rabbit box and the rabbit in the box where the balls had been. But nobody saw the rabbit and balls change places.

Again, he took a round, hard ball about the size of an egg, held it before all eyes, rolled it between his hands, and when the hands were opened, there were two balls, instead of one, and in like manner he produced a third ball, and then holding his hands out to the audience, he rolled the three balls, till they all disappeared, leaving his hands empty.

He borrowed 4 watches, put them in a big blunderbuss and fired them at the head of a man in a chair on the stage, when instantly three of the watches were seen hanging from the bottom of the chair and the fourth was found hanging on the man's back at his coat collar.

He rolled a paper cylinder and stuffed 3 white silk handkerchiefs into one end of it and drew out a red, green and orange one from the other end, and then unrolled the cylinder, showing nothing in it.

He hung on a ribbon stretched across the stage, a large frame, like a deep picture frame with white paper pasted over the front of it, on which he crayoned a butterfly's egg. Then he broke the paper and disclosed a big yellow sac, the shape of an enormous football, hanging inside of the frame, out of which stepped, when opened, a handsome young lady costumed to represent a butterfly, wings and all.

He poured 7 pails of water into an empty tub, threw in 3 eggs, fired a pistol into it, and out hopped 3 live geese on to the stage.

How many of my readers can do any of these things.

HENRY W. ROBY, M. D.

### Presenting the Nation's Sword to Dewey at Washington.

At noon every seat except the two great armchairs was occupied. Through an avenue made by two lines of naval officers in full dress, the President and the admiral descended the steps to the little platform; the President in a frock-coat tightly buttoned around his portly figure; the admiral in full uniform, with the broad gold bands of his rank around his sleeves. There was something of self-consciousness in the President's manner. He was stately and impressive. There could be no more difficult and impressive journey than this little one under the cynosure of the eyes of forty thousand spectators and of the leaders of the land who wanted to see what "Dewey looked like." It was in one sense a misfortune for any man to have to make it in the company of the admiral, who came down the steps as naturally and as easily as he would pass the length of the upper deck of the Olympia, bowing and smiling to old friends whom he recognized. The burst of cheers comprised a transport of fresh admiration begotten of the moment.

"The admiral was going to the platform, you see," said one of his officers. "He had an object in view, as he invariably has in everything he does, and he attained it. He is always erect and light on his feet; and—he was himself, that's all."

The first dramatic moment was when he and the President appeared in the doorway of the portico; the second, when they stood on the platform above the heads of everybody; the third, when the President, for the nation, gave the admiral the sword, which he lifted to his lips. All the official world around them was in full dress; all the civilian world in fine clothes. The sea of blue and purple bonnet and hat trimmings which always predominate in a Washington crowd stretched away until the shimmering atmosphere made it beat in waves upon the green and gold of the foliage. In a little island at the

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right was the fine figure of Miles in the sash of a commanding general, surrounded by his resplendent staff. To the left was the committee of one hundred, a field of high hats and frock-coats, not sitting so well as the officers, but nevertheless keeping their place, on horseback. Grouped upon the steps of the north portico were the seamen and the marines of the Olympia. As the admiral rose a second time to bow in answer to the applause he called the President's attention to them. The President caught the magnetism of the impulse, smiled and nodded.

Around the platform were the members of the Cabinet; back of them—here gold lace, there high hats—the captains who had fought under the admiral at Manila; leading officers of the navy, with Sampson and Schley at their head; leading officers of the army, and a group of United States Senators representing every shade of opinion, but agreed on one subject—the admiral. Over all was the cloudless sky; was the mighty Capitol. There has been Dewey weather for every Dewey reception.

Secretary Long has a fine sense of the fitness of things; also a fine, well-modulated voice. They were so well known, it was so easy to leave them out, that one feared that even he would not make use of the early despatches of the President to the admiral and his replies. With as little introduction as possible, he began to read them in a manner which made his hearers live through the first months of the war again. They told as nothing else could why he was addressing the bronzed, handsome naval officer sitting in the chair before him. Good as the remainder of his speech was, perhaps it would have been better if he had added no comment. The admiral himself led the cheering whenever the remarks of the President or the Secretary did not allude to him. When they did he made a little gesture toward the captains, which was well understood.

His own speech, in type, was about the breadth of the blade of his sword. You could hear his clear, conversational enunciation almost as far as the strong voice of the President. When he sat down he asked the President jovially if he had not done pretty well for an amateur. In that it was the speech of an amateur lay its great merit. It was simply a "Thank you" from the heart.—Frederick Palmer, in Collier's Weekly.

### Washing Flannels.

The following method has been used with unvarying success for years. Use water that is as hot as you can bear your hands in; dissolve a little Gold

Dust Washington Powder in the water, and add enough soap to make a strong suds. Wash the flannels through two suds prepared in this way, plunging them up and down, and rubbing gently between the hands to get clean. Soap should never be applied directly to the flannel. Rinse through clear water of the same temperature as used for the washing; place them smoothly on a line in the sunshine and air.

### Makes Statistics Interesting.

Hon. F. D. Coburn, secretary of the Kansas State Board of Agriculture, who is in Boston, is kept busy explaining to the Bostonese the wonderful resources of the Sunflower State. The manner in which he is doing it is making good reading for New England people and is a big advertisement for Kansas. Secretary Coburn possesses the peculiar faculty of presenting valuable statistical information in a picturesque and fascinating manner. He can make an ordinary public document as readable as the latest popular novel, without once losing sight of his main purpose, which always is, to convey exact and authentic information concerning the great State of which he is an able, a useful and an honorable citizen. If he ever becomes secretary of the Department of Agriculture or chief of the Bureau of Statistics of the United States—possibilities that are in no wise remote—the documents emanating from those departments will lose much of their traditional dryness, and will be classed as good things to read by a discriminating public.—Kansas City Packer.

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### This Will Interest Many.

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# The Young Folks.

## HOHENLINDEN.

On Linden, when the sun was low,  
All bloodless lay the untrodden snow,  
And dark as winter was the flow  
Of Isar, rolling rapidly.

But Linden saw another sight  
When the drum beat, at dead of night,  
Commanding fires of death to light  
The darkness of her scenery.

By torch and trumpet fast arrayed,  
Each horseman drew his battle-blade,  
And furious every charger neighed,  
To join the dreadful revelry.

Then shook the hills with thunder riven,  
Then rushed the steed to battle driven,  
And louder than the bolts of heaven  
Far flashed the red artillery.

But redder yet that light shall glow  
On Linden's hills of stained snow,  
And bloodier yet the torrent flow  
Of Isar, rolling rapidly.

'Tis morn, but scarce yon level sun  
Can pierce the war-clouds, rolling dun,  
Where furious Frank and fiery Hun  
Shout in their sulphureous canopy.

The combat deepens. On, ye brave,  
Who rush to glory, or the grave!  
Wave Munich! all thy banners wave,  
And charge with all thy chivalry.

Few, few shall part where many meet!  
The snow shall be their winding-sheet,  
And every turf beneath their feet  
Shall be a soldier's sepulchre.

—Thomas Campbell.

## MUNICH.

BY ANNA MARIE NELLIS.  
NUMBER 73.

A railway ride of two hours or more, through a rather uninteresting country directly south from Regensburg, brought our Kansas party to the old town of Landshut, on the River Isar. Probably there are very few school-boys or school-girls who have not read the poem which immortalized the river, by making it roll so rapidly. We did not stop at Landshut, but continued along the valley of the Isar, on its left bank, for another two hours. I noticed that the river was doing pretty well, but I saw nothing in its action which would make it necessary to say much about "the Isar rolling rapidly."

We looked across the river to see the battle-field of Hohenlinden, which was not on the banks of the Isar at all, but several miles away. We probably saw the location, but, having no one to definitely point it out to us, we contented ourselves by endeavoring to see all the country on the south side, so as to feel sure we had looked upon the field of Hohenlinden.

Munich, the capital city of Bavaria, does not possess a very pleasing location; the lands lying to the north and east are low and marshy, and though near the base of the Alps, the rise of ground in no part gives it elevation sufficient to relieve it of a flat, prairie-like appearance. The city has been made beautiful during the present century by its beauty-loving and crazy Kings, and contains over 350,000 inhabitants. The River Isar flows through the city, but on its west side is more than four-fifths of the place.

We had learned, long before, that a very good plan to follow, when visiting a city for the first time, is to get a view of it from some high point, where a general idea of its location may be gained. We took street-cars for a ride of several miles to the southwest portion of Munich, to the "Theresenweise," which is a fine park, with delightful lawns, pretty paths, and beautiful fountains. On the west side of Theresenweise is located the "Ruhmschalle" and in front of it the statue "Bavaria."

If one has seen the "Statue of Liberty" in New York harbor, a printed description of "the Bavaria" would convey to such one a fair idea of its appearance; but the latter is not so large nor high as the former, and, as a matter of fact, is of much less importance. However, we entered the foundation of the statue and climbed the stairs to the wreath which "Bavaria" holds in her left hand. The statue, including the foundation, is only ninety feet high, but from it we had a fine view of the city. Looking to the south and east, we had our first view of the Alps, a high range of which is only twenty-five miles from Munich. We had not seen them on approaching the city, on account of a heavy mist which concealed them from our view.

The Bavarians are a very patriotic people, and enthused by the artistic spirit of their recent Kings, they take great pride in the splendid monuments which have been erected during the present century to commemorate the glories of "the Fatherland." The Ruhmschalle, in front of which stands "the Bavaria," is another of the Grecian

structures which the Ludwigs have erected to the glory of their kingdom. It contains, like the "Valhalla" and "Befreiungshalle," the pictures, statues, and names of illustrious Bavarians and other German heroes, poets, scholars, and statesmen.

A particular description of the beautiful building and its contents would scarcely be of interest to the reader generally, but we found it required several hours of time to satisfy ourselves to leave it for other objects of interest in the city.

## PINAKOTHEK.

King Ludwig I. of Bavaria, when he was a young man, studied Greek and became as much in love with that language as some other European sovereigns are with Latin, who sign the initials "I. R." after their front name. Ludwig had artistic tastes with reference to buildings, and caused many very fine ones to be erected in Bavaria, but nearly all were modelled after Greek designs. In 1830, or thereabouts, he had a huge art gallery erected in Munich and named it "Pinakothek," which is a Greek word, and, when translated into English or German, would mean a repository for pictures.

It is 500 feet long, 90 feet high, and, of course, is capable of holding a great number of paintings. There are 1,400 paintings in the building, and some are very fine ones.

In 1846 the King had another repository built, in which were put only modern paintings, so the first one is known as "Alt Pinakothek" and the other the "Neue Pinakothek." The two buildings are near each other, with only a street between them, and together contain a very famous art collection, which ranks among the finest in Europe. To be sure, the Dresden galleries are finer, and possibly that at Vienna may equal it, but it surpasses Berlin and all other cities except Florence, Rome, and Paris; the latter three I have not yet seen.

In the old Pinakothek are included three famous collections of pictures which have been brought together, during the past sixty years, at Munich. Some of the finest belonged in the picture gallery at Heidelberg, before the Palatine Electors had removed from it to Mannheim. The history of the three collections would scarcely make interesting reading, so I will pass it by and mention only some of the few items which particularly appealed to my notice.

There are two rooms devoted entirely to Rubens, with his famous "Lion Hunt," "Battle of the Amazons," "Descent from the Cross," "Massacre of the Innocents," "Perdition of Lost Souls," etc. There are also two rooms for Van Dyck. Among his best are, "Mary and John With the Body of Christ," "Martyrdom of Saint Sebastian," a portrait of Queen Henrietta Maria of England; and another portrait which interested me was labelled "Duke Wilhelm Wolfgang of the Palatinate."

There are many beautiful Rembrandts. A very fine series of his paintings represent portions of the history of Christ, painted in 1633 for Prince Frederick Henry of the Netherlands, among them "The Crucifixion," "Descent from the Cross," "Entombment," "Resurrection," and "The Ascension."

There are only a couple of Raphael's earlier "Madonnas," and these not so beautiful as the Berlin galleries can show; his greatest one being in the Dresden gallery and mentioned in letter No. 28. There is a beautiful "Madonna" of Murillo here, and four popular pictures by that great master, representing "Beggars Children." Berlin has but one Murillo of note, and Dresden the same. It is said that the most beautiful "Madonnas" of Murillo are all in Spain.

There are more paintings by Albrecht Durer here than I had ever seen before. Dresden, Vienna, Berlin, and Nuremberg all have some of his works, but Munich seems to have more of them than the four other cities. However, Nuremberg has but few, for Durer was born there, lived there, and worked there. His pictures were bought by other cities, and long years afterwards when Nuremberg found out how famous a painter it once had, it immediately erected a fine statue for him and preserved his beer mug. I had seen his statue, his grave, and his beer mug, in Nuremberg, and I had eaten "bratwurst" in the same house he did 300 years ago, so I looked long and with much admiration upon all his pictures in the Grecian art gallery of German Bavaria.

Visitors to the old and new Pinakothek usually make the next point for sight-seeing, another Grecian structure, and it is called the Glyptothek; that word is Greek and means a repository for statuary. The Glyptothek is

a fine building, of the Ionic order of architecture, and contains a very great many fine specimens of Grecian sculpture; Telemon, Hercules, Oicles, Laomedon, Ajax, Achilles, and other gentlemen of that class occupy quite prominent localities in the building. Their tailor bills must have been quite light, or else they left their overcoats and other things at home when they had their pictures taken.

In the "Egyptian Hall" of the Glyptothek we saw the statues of Ra, Isis, Osiris, and other divinities worshiped by the ancient Egyptians, and if their gods are fair representatives of their religion, it certainly must have been a very unpleasant duty to go to church. But it will not be profitable to try to enumerate or describe the thousands of interesting items to be seen in the Glyptothek, excepting that I must recall the beautiful groups representing, among other individuals, Hercules, Minerva, Paris, Achilles, and sundry other Trojans, which were found in ancient Greece and have been "restored" by Thorwaldsen, the great Danish sculptor. It was amusing to me to note an ancient figure which, lacking an arm, had been supplied by Thorwaldsen with a new one, another needing an ear had been helped in like manner, while Achilles had a new helmet on an exceeding old appearing head. The new work has a clean appearance, while the old is stained—in fact, shop-worn.

But 5 o'clock arrives, the bell rings, and we leave the building, for the doors will close in five minutes. We adjourn to the "Hof Garten" to hear the military band play till 6 o'clock.

## THE BASILICA.

A very beautiful public square northwest of the center of the city is known as "Königs Platz" (Kings Place). It is bounded by the Glyptothek, Schak Palace of Art, and the Kunstaustellungsgebäude, with the beautiful "Propylæen" as an entrance-way from Louisa strasse. The Propylæen is a magnificent gate, closely resembling the Brandenburgerthor at Berlin. Near the gate and the Kings Place is the "Basilica," the royal church built by King Ludwig I, in 1850. There are many beautiful churches in Munich which we visited, but I will mention only this one. I was told that "Basilica" is a Greek word as well as "Propylæen," but Ludwig, who built them and named them, delighted in Greece. He should have eaten pork and saurkrot every day for dinner, for these are good German dishes and would have satisfied his longing for grease.

The Basilica is not very attractive in its outward appearance, neither is its interior so handsomely or richly furnished as many other Catholic churches I have seen. It has something, however, which gives it a decidedly individual standing among great churches, and that is the sixty-six columns in the central portion of the building, each one a solid piece of Tyrolese marble. The nave of the church is seventy-five feet high, and the four aisles forty-one feet in height. The walls have some fine frescoes, with scenes representing Bible narratives; also medallion portraits of thirty-four Popes of Rome, from Julius III to Gregory XVI.

The principal object of interest to us, aside from the beautiful and lofty marble pillars, was the sarcophagus of King Ludwig I. and his Queen, Theresa of Saxe-Hilburghausen. This tomb is near the entrance into the church and is of gray marble. We looked at it a long time, and thought of the crazy artist King, who made Bavaria poor by building handsome monuments to the greatness of his native land. We can not call him crazy in the sense that is meant by the word "maniac," but it he had lived in Kansas, it would have been said of him that he had "wheels in his head." His grandson, Ludwig II., continued his artistic ideas, and, in a fit of mental frenzy, drowned himself in a lake near Munich, while another descendant is now the nominal King of Bavaria, but has been confined as a maniac ever since his accession to the right in the throne.

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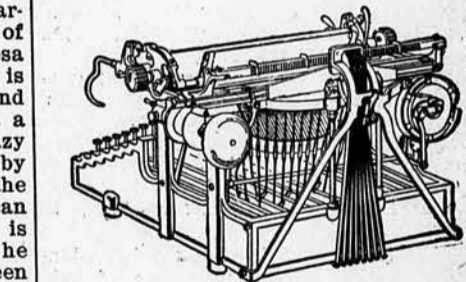
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### WHO WILL PROVIDE OUR FUTURE TIMBER SUPPLY?

The question of timber supply is one which becomes each year more important as the forest areas disappear before the axe of the lumberman. A new and important demand for timber is that for telephone poles. This is causing the cutting of hundreds of thousands of young trees which might otherwise be left to grow to the size of sawlogs. No reproduction of forests on a scale commensurate with this consumption has been undertaken in this country. The years of waiting which must ensue between the time when land is bought and planted to trees, and the time when returns can be realized, are a bar to forestry for the great majority. Indeed the individual who contemplates the planting of a forest is apt to count as against him all chances of reaping the harvest.

The Government undertook some years ago to foster the planting of timber by giving 160 acres of land to any settler who would devote a small portion of it to timber culture. Little came of this. The public domain at that time had been nearly all appropriated in sections where forestry could readily be made to succeed. There was a great lack of knowledge of the details of successful forestry. And the frontier settler had enough to do to provide a sustenance for his family without at that time laying a foundation for a possible fortune in a forest.

The general agitation of the subject, of which the "timber culture act" of Congress was one of the results and one of the promoters, resulted in the planting of a few timber tracts in various parts of the West. Where these have consisted largely or entirely of Catalpa speciosa the results have been satisfactory to the investors. This catalpa is a rapid grower; bears crowding; has no insect enemies; consists, even when young, almost entirely of heart wood; grows to a very large size; is easily propagated from seed; the wood is exceedingly durable, and is not inferior to the finest imported woods for beauty and susceptibility to finish.

Planted on rich land a catalpa plantation begins yielding returns of valuable fence-posts in about ten years from the time the 1-year-old seedlings are set. They are usually set 4 feet apart each way, giving 2,723 trees to the acre. Experienced planters state that the loss need not exceed 1 per cent. Contractors are willing to guarantee a stand of 2,000 trees to the acre at the end of five years from the time of planting in the proposed forest. From the time such a plantation begins to yield its returns, at 10 years old, there is a perennial harvest. By getting more room the trees left at each cutting are enabled to grow larger, and if the last cutting should contain but 160 trees to the acre distributed evenly over the ground, and this cutting should be made at, say seventy-five years from the time of planting, the value of the timber on a very few acres would constitute a comfortable fortune. This fortune would follow the annual harvest of the preceding sixty-four years. Nor would this harvest be the end. Properly handled there should be other growths of younger timber among these old

trees, ready to perpetuate the harvests indefinitely.

But who that plants a forest will be here in seventy-five years? Who is ready to invest for so long a period as ten years before receiving a return? Some have done it and are receiving their reward.

The very fact that the investment in forestry is one to be realized on only in the more or less remote future, is, itself, a protection to the forester against harmful competition, and an assurance that the profits now apparent on such investment will be increased rather than diminished as time goes on.

The opposition to corporations, especially when they assume large proportions, or seize such opportunities as to even partially monopolize any branch of industry, is intensifying. But who that is to-day able to realize the opportunities for profit in tree culture will be here seventy-five years hence to enjoy the fruits of the forest he may plant? True, many now here will be on earth in ten years, when a forest plantation set out during the closing year of the nineteenth century will begin to yield returns, not a few will be here in fifteen years when returns should be liberal. Some will be here in twenty or twenty-five years when the harvest will be well under way. Some of those who might now plant trees will be here in thirty years when the trees now planted will be magnificent and proportionately valuable, but none now enjoying manhood's estate will care much for either profit or loss in seventy-five years from to-day.

The poet Holmes informs us that of all earthly things only two keep their youth. These, according to this authority, are "a tree and truth." But the poet failed to consider the modern corporation which can live as long as a tree and might run a pretty good race along the longevity road with even young truth. A corporation can live long enough to obtain the profit from the forest it may have planted. Not unlikely society of the next generation will find itself paying tribute to a few corporations for timber, the gratuitous supply of which will have almost entirely disappeared by the time the middle-aged man of to-day shall have reached mature years. What is to be done about it? The task of providing timber is too long for the private individual. Some urge that the national and State governments take it up. If we wait until this can be brought about the timber famine will be acute. The modern corporation organized on lines to enable its shareholders to anticipate profits, or composed of capitalists whose accumulated wealth enables them to invest for posterity, seems to be the only capable person ready to undertake the forestry on a scale commensurate with the demands.

Fine samples of Kansas cotton were brought into the Kansas Farmer office last Thursday, by Mr. J. E. Holmes, of South Topeka. Five years ago Mr. Holmes secured a few cotton seeds from a box car. These were planted and bolls were formed, but only one or two matured. Seeds from these earliest bolls were planted the next season. The plan of selecting seeds from the earliest bolls has been followed ever since until a strain of cotton has been established of which 90 per cent of the bolls open before frost. The plants grow about 5½ feet high and are very fruitful. The staple is of beautiful color and texture. This year the seeds were planted May 1 and the first bolls opened September 1. The season of this particular cotton has been shortened by about six weeks. The size and vigor of the plants have not been diminished in thus shortening the season. On the contrary they are now more vigorous and grow larger than five years ago.

A report comes from the East that considerable consignments of ashes from corn-cobs are shipped from Kansas, to be used as fertilizer. It is stated that these ashes are equal to cottonseed hull ashes for this purpose. The report comes to Secretary Coburn from a reliable source, accompanied by an inquiry as to what is known about such shipments. Secretary Coburn and the editor of the Kansas Farmer are alike uninformed as to any such plan for turning corn-cobs into dollars. Much corn is shelled in Kansas and the cobs are usually sold for kindling or for fuel. But the resulting ashes are, so far as known, given no more consideration than any other ashes. If any reader can contribute further information, the courtesy will be appreciated by the editor.

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### A HEREFORD CATTLE EVENT.

The National Exhibition and Combination Sale Held Under the Auspices of the National Hereford Association, the Most Notable and Successful Ever Held By Fanciers of Any Beef Breed in the World—Hereford Men Jubilant Over the Affair.

The National Hereford Show and Combination Sale, held at Kansas City, October 28, 1899, was an unqualified success in every way. While it was strictly a Hereford occasion, breeders of other beef cattle made a careful study of this great Hereford object lesson and are already making preparations to promote their interests by planning a national show in the near future.

The Hereford cattle breeding fraternity are wonderfully jubilant over their



great event, realizing the prestige obtained on this occasion for the handsome whitefaces. It is very doubtful whether 600 cattle of like quality could be duplicated anywhere else in the world in the same period.

The prices realized at the sale, as shown by our report, exceeded the expectations of the promoters of the sale and the breeders on their return home expect to mark up the price of their sale animals to correspond with the schedule of prices obtained at this notable and representative offering. It was a great show and sale and Hereford breeders are entitled to the full measure of the success and prestige of this occasion.

The committees having charge of the show and sale deserve much credit, but to C. R. Thomas, general superintendent, especial praise is due for his untiring efforts and fine system of records.

#### LIST OF BREEDERS AND EXHIBITORS.

The following comprise a complete list of breeders and exhibitors represented in the National Show and Combination Sale:

Missouri.—K. B. Armour, Kansas City; L. B. Ashurst, Mt. Leonard; H. D. Adkisson, Napton; Logan B. Chappell, Mt. Leonard; W. A. Colt, Clinton; Mrs. Kate W. Cross, Kansas City; W. H. Curtice, Kansas City; J. M. Curtice, Kansas City; Cornish & Patten, Osborn; E. Corkins, Bethany; C. G. Comstock, Albany; Jas. A. Funkhouser, Plattsburg; Jas. A. Gibson, Odessa; Benton Gabbert, Dearborn; S. J. Gabbert, Dearborn; John Garnett, Durgen; Gudge & Simpson, Independence; O. Harris, Harris; Z. Z. Hartzler, East Lynne; N. W. Leonard, Fayette; H. F. Lamb & Sons, Cairo; J. S. Lancaster & Sons, Chandler; Makin Bros., Lee's Summit; N. E. Mosher & Sons, Salisbury; Geo. Mathews, Durgen; G. R. Reynolds, Higbee; J. Y. Reynolds & Son, Liberty; T. F. B. Sotham, Chillicothe; Steward & Hutcheon, Greenwood; W. T. Stovall, Jameson; Scott & March, Belton; P. E. Spelman, Clark; H. C. Taggart, Lennox; F. H. Tuck, Houstonia; H. A. Taylor, Roanoke; Walter B. Waddell, Lexington; J. A. Wilkerson, Kearney; H. B. Watts, Fayette.

Illinois.—Morris Cook, Steward; Thos. Clark, Beecher; Jos. Condel, Chicago; H. J. Flunk, Goodman; Geo. P. Henry, Chicago; E. E. Keyt, Crete; H. F. Pinnell, Kansas; H. N. Thompson, Woodstock; West & Duncan, Windsor.

Kansas.—Fred Cowman, Lost Springs; Louis Hothan, Carbondale; J. A. Larson, Everest; H. A. Naber, Wallula; C. N. Whitman estate, Leavenworth; Mrs. Kate Wilder Cross, Emporia; W. E. Spears, Richmond; Steele Bros., Belvoir; C. A. Stannard, Emporia; Wm. Tibbles, Hadam.

Nebraska.—R. E. Countryman & Sons, Nehawka; Fred Eason, North Bend; W. N. Rogers, McCook.

Ohio.—C. E. Ford, Manara; John Hooker, New London; Frank Rockefeller, Cleveland.

Iowa.—A. J. Gettler, Glenwood; Z. T. Kinsell, Mt. Ayr; George S. Redhead, Des Moines.

Indiana.—W. S. Van Natta & Sons, Fowler; F. A. Nave, Attica; Clem Graves, Bunker Hill.

Michigan.—George B. Conley, Marshall.

Nevada.—John Sparks, Reno.

Virginia.—Murray Boocock, Keswick.

Colorado.—Charles N. Whitman, Denver.

Kentucky.—H. D. Martin, Eminence.

#### THE COMMITTEE OF AWARDS.

The judges who awarded the prizes consisted of two committees working at the same time on different rings. Two leading beef breeds were represented by the committee as follows: C. E. Leonard, Boonville, Mo.; C. B. Dustin, Sumner Hill, Ill., and N. H. Gentry, Se-

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dalla, Mo., all well-known Shorthorn breeders; and W. A. McHenry, Denison, Ia.; R. B. Pierce, Creston, Ill., and Wallace Estill, Estill, Mo., all prominent breeders of Aberdeen-Angus cattle. Each committee consisted of two judges and a referee. Their work as a whole gave very general satisfaction.

#### AWARDS BY SECTIONS.

Section 1.—Bull 3 years and over, 12 entries: first prize, \$75, won by Dale, owned by F. A. Nave; second, Christopher, W. S. Van Natta & Son; third, Thickset, T. F. B. Sotham; fourth, Hesiod 29th, Scott & March; fifth, Blair Donald, W. H. Curtice; sixth, Randolph, C. N. Whitman.

Section 2.—Bull, 2 years old and under 3, 14 entries: first prize, \$75, Lincoln 2d, W. S. Van Natta & Son; second, Le Roy, Thomas Clark; third, Danby Rex, Gudge & Simpson; fourth, Boabdl, John Hooker; fifth, Grandee, T. F. B. Sotham; sixth, Freedom, Clem Graves.

Section 3.—Yearling bulls, 20 entries: first prize, \$75, Matchless Theodore, C. A. Stannard; second, Gentry Lars, C. G. Comstock; third, Goodenough, O. Harris; fourth, Dixie, Steward & Hutcheon; fifth, Columbus 10th, Clem Graves; sixth, Mark Hanna, John Hooker.

Section 4.—Senior bull calf, 6 months and under 1 year: first prize, \$75 cash, Perfection, F. A. Nave; second, Checkmate, T. F. B. Sotham; third, Aaron, W. S. Van Natta & Son; fourth, Daimio, Gudge & Simpson; fifth, Hesiod 5th, James A. Funkhouser; sixth, Peerless Wilton, Thomas Clark.

Section 5.—Bull calf under 6 months old, 22 entries: first prize, \$75 cash, W. S. Van Natta & Son, with March On 6th, No. 96537, weight 660 pounds, calved March 17, 1899; second prize, \$60 cash, F. A. Nave, with Glitedge No. 92881, weight 735 pounds, calved March 3, 1899; third prize, \$45 cash, T. F. B. Sotham, with Chorister No. 93483, weight 675 pounds, calved February 13, 1899; fourth prize, \$30 cash, to H. J. Fluck, with Willard, No. 91332, weight 645 pounds, calved March 31, 1899; fifth prize, \$15 cash, Gudge & Simpson, with Banner Bearer, No. 97903, weight 655 pounds, calved April 1, 1899; sixth prize, \$10 cash, H. D. Martin, with Beau Donald 17th, No. 90962, calved March 15, 1899. Judges were C. E. Leonard and C. B. Dustin, with R. B. Pierce as referee.

Section 6.—Three-year-old cow, 18 entries: first prize, \$75, Dolly V 71983, F. A. Nave; second, Lady Matchless II 66092, C. A. Stannard; third, Clodia 69175, W. S. Van Natta & Son; fourth, Lady Charming 63672, T. F. B. Sotham; fifth, Dewdrop 61351, James A. Funkhouser; sixth, Dolly II 61799, John Hooker.

Section 7.—Cow or heifer 2 years old and under 3, 18 entries: Judges Pierce and Dustin awarded first prize, \$75, to Thomas Clark, with Everest 70773, weight 1,650 pounds, calved December 20, 1896; second, \$60, to T. F. B. Sotham with Benison 78826, weight 1,395 pounds, calved December 20, 1896; third, \$45, to Thomas Clark, with Wilona 70786, weight 1,530 pounds, calved January 18, 1897; fourth, \$30, to Gudge & Simpson with Dorana 3d, 91583, calved September 27, 1898; fifth, \$20, to John Hooker with Dolly 6th 71989, calved December 28, 1896; sixth, \$10, to F. A. Nave with Wildeye 3d 78666, calved May 5, 1897.

Section 8.—Heifer 1 year and under 2, 32 entries: Judges Leonard and Pierce awarded first prize, \$75 cash, to F. A. Nave, with Queen of Fairview IV 82819, weight 1,365 pounds, calved February 2, 1899; second, \$60 cash, to John Hooker, with Belle of Maplewood II 87063, weight 1,325 pounds, calved December 24, 1897; third, \$35 cash, to F. A. Nave, with Carnation 77704, weight 1,280 pounds, calved December 1, 1897; fourth, \$25 cash, to Thomas Clark, with Peerless V 80683, weight 1,210 pounds, calved December 10 1897; fifth, \$15 cash, to H. J. Fluck, with Penelope 81305, weight 1,220 pounds, calved October 6, 1897; sixth, \$10 cash, to James A. Funkhouser, with Keepsake 81364, weight 1,050 pounds, calved February 22, 1898.

Section 9.—Senior heifer calf 6 months old and over 1 year, 40 entries: First prize, \$75, Theresa 92896, F. A. Nave; second, Miss Betsy II. 94987, W. S. Van Natta & Son; third, Peerless Queen III 96179, John Hooker; fourth, Alicia 90699, Thomas Clark; fifth, Miss March On 94489, W. S. Van Natta & Son; sixth, Jewel Hesiod 92289, N. W. Leonard.

Section 10.—Heifer under 6 months, 19 entries: First prize, \$75 cash, Thomas Clark



with Peerless Missie 90609, weight 700 pounds, calved October 30, 1898; second prize, \$60 cash, J. S. Lancaster & Sons, with Kathlene 92182, weight 620 pounds, calved April 6, 1899; third prize, \$35 cash, Gudgell & Simpson, with Mischief Maker 97907, weight 645 pounds, calved February 17, 1899; fourth prize, \$25 cash, W. S. Van Natta & Son, with Lady Jane 96528, weight 585 pounds, calved February 25, 1899; fifth prize, \$15 cash, W. S. Van Natta & Son, with Lady Ellen 96257, weight 615 pounds, calved February 20, 1899; sixth prize, \$10 cash, Corush & Patten, with Leah 90855, weight 615 pounds, calved March 1, 1899. Judges were Leonard and Pierce, with Dustin as referee.

Section 11.—Senior sweepstakes bull, 2 years or over, 6 entries; \$100 prize to Dale 66481, owned by F. A. Nave.

Section 12.—Junior sweepstakes bull under 2 years, 8 entries; \$100 prize to Aaron 94447, owned by W. S. Van Natta & son.

Section 13.—Senior sweepstakes cow or heifer 2 years or over, 4 entries; \$100 prize to F. A. Nave's Dolly 5th.

Section 14.—Junior sweepstakes heifer, under 2 years, 9 entries; \$100 prize to Carnation 77704, owned by F. A. Nave.

Section 15.—Best bull any age, prize, the Armour cup, cost \$400; Seven great prize-winners were in the contest which was won by Dale, the head of the F. A. Nave herd of Herefords, at Attica, Ind.

Section 16.—Grand sweepstakes, cow, prize Clay, Robinson & Co. special, \$250 cash, won by Dolly 5th, owned by F. A. Nave. There were six contestants in the ring.

Section 17.—Aged herd, 11 entries; six prizes—\$150, \$100, \$75, \$50, \$25, \$15: First prize, F. A. Nave, with Dale 66481, Dolly 5th 71988, Wildeye 3d 78666, Carnation 77704 and Theresa 92896; second prize, T. F. B. Sotham, with Thickset 68785, Lady Charming 63672, Benison 78826, Pure Gold 94041 and Golden Lassie 94009; third prize, Thomas Clark, with Leroy 70778, Prettymaid 65910, Everest 70773, Peerless 5th 80683 and Alicia 90599; fourth prize, Gudgell & Simpson, with Dandy Rex 71689, Petrolea 66666, Mischief Maker 97907; fifth prize, John Hooker, with Boadill 71260, Dolly 2d 61799, Alive 71984, Belle of Maplewood 2d 87063, and Peerless Queen 3d 96179; sixth prize, A. J. Gettler, with Mercury 58813, Saint Horatia 66134, Frolle 86304, Lantana 86306 and Floretta 91442. The entries pledged were: E. Corkins, F. A. Nave, T. F. B. Sotham 2, Thos. Clark, J. S. Lancaster & Sons, W. S. Van Natta & Son, A. J. Gettler, Murray Boocock, John Hooker, Gudgell & Simpson.

Section 18.—Young herd consisting of one bull under 2 years old, two heifers 1 year old and under 2, and two heifers under 1 year old. There were six prizes and thirteen entries; Judges Gentry and McHenry awarded first, \$150, to F. A. Nave, with Deliah 92877, Theresa 92896, Carnation 77704, Queen of Fairview 4th 82819, Perfection 92891; second, \$100, went to W. S. Van Natta & Son, with Aaron 94447, Miss March On 94489, Miss Betsy 2d, 94487, Chicago Lady 84308, Clover 5th 84211; third, \$75, went to Thomas Clark, with Lee 80681, Jacqueline 90603, Alicia 90599, Eudora 90678; Peerless 5th, 80683; fourth, \$50, went to Steward & Hutcheon, with Dixie 83891, Queele 83896, Hazel 83893, Maggie 97414, Cosmo 97418; fifth, \$25, went to John Hooker, with Alice 2d 87062, Belle of Maplewood 3d 96177, Belle of Maplewood 2d 87063, Mark Hanna 87071, Peerless Queen 3d 96179; sixth, \$15, went to Gudgell & Simpson, with Mischief Maker 97907, Blanche 14th 97970, Gwendoline 12th 81648, Gwendoline 11th 81647, Daimio 91576.

Section 19.—Herd showing most bloom, Breeders' Gazette special, 9 entries; three prizes—\$75, \$50, \$25; first prize, James Price, herdsman for F. A. Nave; second prize, William Burlton, herdsman for T. F. B. Sotham; third prize, Bert Fluck, herdsman for Thomas Clark. Herds with which above prizes were awarded were the same as entered in Section 17. The entries pledged were: E. Corkins, F. A. Nave, T. F. B. Sotham 2, Thomas Clark, W. S. Van Natta & Son, Murray Boocock, John Hooker, Gudgell & Simpson.

Section 20.—Calf herds; first prize, Drovers' Telegram special, \$150 cash, won by Daimio, Doranna 3d, Modesty, Marletta, and Mischief Maker, owned by Gudgell & Simpson; second prize, the Gudgell & Simpson special, \$50 cash, won by Checkmate, Golden Lassie, Gladys, Lustre, and Gladstone, owned by T. F. B. Sotham.

Section 21.—Get of one sire, best two animals of either sex, under 4 years; five prizes—\$100, \$75, \$50, \$25, \$15:

First prize, Thomas Clark, with Eudora 80678, calved December 28, 1897, and Everest 80773, calved December 20, 1896; second prize, W. S. Van Natta & Son, with Christopher 80472, calved April 14, 1896, and Columbine 78855, calved April 7, 1897; third prize, T. F. B. Sotham, with Thickset 68785, calved February 20, 1896, and Golden Lassie 94009, calved November 19, 1898; fourth prize, John Hooker, with Belle of Maplewood 2d 87063, calved December 24, 1897, and Belle of Maplewood 3d 96177, calved November 16, 1898. The entries pledged were: F. A. Nave, T. F. B. Sotham 2, C. A. Stannard, W. A. Colt, John Garnett, Thos. Clark, Scott & March, J. S. Lancaster & Sons, J. A. Funkhouser, W. S. Van Natta & Son, O. Harris, Fred Cowman, N. W. Leonard, Steward & Hutcheon, Clem Graves, Jno. Sparks, Louis Hothan, John Hooker, Gudgell & Simpson 2.

Section 22.—Best four animals of either sex, under 4 years old, get of one sire—\$100, \$75, \$50, \$25, \$15; first, progeny of bull Correction, T. F. B. Sotham; second, Lars, John Clark; third, Dale, F. A. Nave; fourth, Lamplighter, Gudgell & Simpson; fifth, Java, John Hooker.

Section 23.—Three bulls, any age: First prize, Dr. Logan special \$150 sterling silver cup, offered by Dr. J. E. Logan, Kansas City; won by Thickset, 68,785, Grandee 78839, Checkmate 93981, owned by T. F. B. Sotham; second prize, \$25 cash, offered by George Tuggle, Kansas City; won by Aaron 94447, Lincoln II 74227, Christopher 80172, owned by W. S. Van Natta & Son.

Section 24.—Three females under 4 years: first prize, Emery, Bird & Thayer special \$150 sterling silver cup, offered by Emery, Bird, Thayer Dry Goods Company, Kansas City; won by Peerless V 80683, Winona 80786; Everest, owned by Thomas Clark; second prize, H. H. Clough special, \$50 cash, offered by H. H. Clough, Elyria, Ohio; won by Benison 78826; Pure Gold

94041, Golden Lassie 94009, owned by T. F. B. Sotham.

Section 25.—Bull, cow and offspring; first prize, Auctioneer's special, \$100 cash, offered by Colonels Judy, Woods, Edmonson, Sawyer and Sparks; won by Dale 66481; Nelley May 41752; Perfection 92891, owned by F. A. Nave; second prize Weaver, B. Sotham, Chillicothe, Mo.; won by T. F. B. Sotham, Chillicothe, Mo.; won by Thickset 68785, Likeness 54048, Lustre 94030, owned by T. F. B. Sotham.

Section 26.—The Baltimore Hotel special sterling silver cup, value \$250, was the first prize for the best pair, one male and one female, any age, with gentries. There was a second prize of \$50 cash; F. A. Nave won the cup, with Dale 66481, calved March 17, 1899, and Dolly V 71988, calved January 15, 1896. Second prize went to T. F. B. Sotham, with Thickset 68785, calved February 20, 1896, and Benison 78826, calved December 20, 1896. Judges were Pierce and Dustin, with Leonard as referee.

Section 27.—Pair, cow and produce, any age; Metropolitan Railway special, 10 entries, silver cup, \$150; first prize Gudgell & Simpson, with Mischief Maker 97907, calved August 12, 1896, Mischief Maker 97907, calved February 17, 1899. The entries were: F. A. Nave, T. F. B. Sotham 2, C. A. Stannard, J. A. Funkhouser, W. S. Van Natta & Son, Steward & Hutcheon, Murray Boocock, John Hooker, Gudgell & Simpson. Last half of Section 27.—Second best pair, same entries as Metropolitan special, the Sunny Slope special, \$50; second prize, James A. Funkhouser, with Dewdrop 61351, calved November 12, 1894 and Monogram 91356, calved February 3, 1899.

Section 28.—Jacard special sterling silver service for best pair bulls 1 and under 2 years, four entries. This decision was a very difficult one, and it was only after calling in Colonel Dustin as referee that Judges Gentry and Estill awarded first F. A. Nave, with Eyeopener 79538, weight 1,520 pounds, calved December 3, 1897, and Alberta 88167, weight 1,330 pounds, calved May 3, 1898. Second honors went to the Sunny Slope farm of C. A. Stannard, with John Jacob Astor 86072, weight 1,120 pounds, calved July 26, 1898, and Matchless Theodore 80977, weight 1,065 pounds, calved August 4, 1898.

Section 29.—The Kansas City Journal special, cup of sterling silver, valued at \$150. First prize was won by F. A. Nave, with Queen of Fairview IV 82819, calved February 22, 1898, and Carnation 77704, calved December 1, 1897. Second honors were won by John Hooker, with Belle of Maplewood II 87063, calved December 24, 1897, and Alice II 87062, calved November 29, 1897.

Section 30.—Pair bull calves; first prize, Fairview Stock Farm special, \$100 cash, offered by F. A. Nave, Attica, Ind.; won by Aaron and March On 6th, owned by W. S. Van Natta & Son; second prize, Cornish & Patten, Osborn, Mo.; won by The Grove 1st and Perfection, owned by F. A. Nave.

Section 31.—Pair heifers under 1 year, Coates House special, 21 entries; silver cup, \$150; first prize, W. S. Van Natta & Son, with March On 94489, calved December 26, 1898, Miss Betsy 2d 94487, calved November 1, 1898. The entries were: F. A. Nave, James Condel, T. F. B. Sotham 2, C. A. Stannard, Thomas Clark, Z. I. Kinsell, J. S. Lancaster & Sons, J. A. Funkhouser, W. S. Van Natta & Son, Makin Bros., Fred Cowman, Cornish & Patten, N. W. Leonard, Clem Graves, H. J. Fluck, Murray Boocock, John Hooker, Gudgell & Simpson 2, C. N. Whitman.

Last half of Section 31.—Second best pair; entries same as Coates special, offered by Scott & March; \$50; second prize, T. F. B. Sotham, with Gladys 94007, calved October 23, 1898, and Golden Lassie 94009, calved November 19, 1898.

Section 32.—Pair, one bull and one heifer, under 1 year; Midland Hotel special, 23 entries; silver cup \$250; first prize F. A. Nave, with Perfection 92891, calved November 6, 1898, and Theresa 92896, calved November 2, 1898. The entries were: E. Corkins, F. A. Nave, T. F. B. Sotham 2, C. A. Stannard, W. A. Colt, C. G. Comstock, Thos. Clark, Z. T. Kinsell, J. A. Funkhouser, W. S. Van Natta & Son, Makin Bros., Fred Cowman, Cornish & Patten, Clem Graves, H. J. Fluck, Murray Boocock, Steele Bros., Gudgell & Simpson 2, C. N. Whitman.

Last half of Section 32.—Second best pair; entries same as Midland special; the Alamo special, offered by John Sparks; \$50; second prize, T. F. B. Sotham, with Checkmate 93981, calved November 2, 1898, and Golden Lassie 94009, calved November 19, 1898.

Section 33.—The Homestead special for the best 10 animals either sex, any age, cash \$150. Nine entries. First to T. F. B. Sotham; second, \$50 cash by Stanton Breeding Farm, to W. S. Van Natta & Son.

Section 34.—Live Stock Indicator special, for 5 animals bred and owned by exhibitor who was not a breeder prior to January 1, 1894. The contestants were J. S. Lancaster, O. Harris, Steward & Hutcheon, F. A. Nave, and John Sparks. First prize, \$75, to F. A. Nave; second, \$50, to Steward & Hutcheon; third, \$25, to J. S. Lancaster & Son.

Section 35.—Herdsman fitting young herd winning prizes in Section 18; the Evergreen Stock Farm special, offered by Thos. Clark; five prizes—\$50 to winner of first prize in Section 18, \$40 to winner of second, \$30 to winner of third, \$20 to winner of fourth, \$10 to winner of fifth. Prize donated to association in form of calf, to be sold and divided pro rata; 14 entries. This calf was sold in the regular sale Thursday and brought \$180. This would make a first prize of \$60, second \$48, third \$36, fourth \$24, and fifth \$12. First prize, James Price, herdsman for F. A. Nave; second prize, John Harvey, herdsman for W. S. Van Natta & Son; third prize, Bert Fluck, herdsman for Thomas Clark; fourth prize, John Steward, herdsman for Steward & Hutcheon; fifth prize, George Mason, herdsman for John Hooker.

Section 36.—Best bull, any age, to be sold in the sale; Curtice special, offered by J. M. Curtice; 34 entries; \$50. Prize-winner, W. S. Van Natta & Son, with Aaron 94447, calved October 25, 1898. The entries were: F. A. Nave 3, C. A. Stannard 3, Thos. Clark 2, B. Gabbert, S. J. Gabbert, J. S. Lancaster & Sons 2, W. S. Van Natta & Son 2, Makin Bros. 3, Geo. S. Redhead, N. W. Leonard 2, Clem Graves, John Sparks,

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Louis Hothan 2, H. J. Fluck, Murray Boocock 2, Steele Bros. 5, Gudgell & Simpson, J. M. Curtice.

### FAT STOCK AWARDS.

In the fat stock exhibit alone was there any indication that the great Kansas City show was a "new thing." The rings in this class were small and not usually close, though Professor Curtis, Wm. Van Natta and Mr. Burleigh, who divided the expert work, had one or two hard nuts to crack, and in one case disagreed. The awards were as follows:

Recorded Animals.—Prof. C. F. Curtiss, Iowa Agricultural College, judge:

Steer or spayed heifer, 2 years and under 3; no entries.

Same, 1 year and under 2; 2 entries: First to Sotham's steer, Old Times 94034; second to Geo. P. Henry's steer, Prospect.

Same, under 1 year old; 2 entries: First to Geo. P. Henry's Apollo 91738; second, to Gudgell & Simpson's Penwiper 91597.

Unregisterable Animals.—Prof. Curtiss, Iowa, judge.

Steer or heifer, 2 years and under 3; 2 entries: First, Geo. S. Redhead's steer, Dick; second, J. Y. Reynolds & Son's steer.

Same, 1 year old and under 2; 5 entries: First, Geo. P. Henry's full-blood steer, Ready Money, out of a full-blood but un-registerable cow; second, Thos. Clark's roan three-fourths blood steer, Lass Eclipse, on Shorthorn foundation; third, Geo. S. Redhead's half-blood, Billie Cummings, out of a grade Shorthorn cow. This ring was Professor Curtis's most difficult—the choice for second being especially hard to make.

Same, under 1 year old; 3 entries: First, G. W. Harness, Jr.'s, steer, Top Notch; second, Geo. P. Henry's spayed heifer, Hope Ross; third, Makin Bros., Sam.

Sweepstakes, \$100—W. S. Van Natta, Judge.

Registered Animals.—Award to Sotham's Old Times 94034; age 1 year 8 months, weight 1,055 pounds.

Unregistered Animals.—Award to Thos. Clark's three-fourths blood Lass Eclipse, age 1 year 8 months, weight 1,250 pounds.

Special Sweepstakes.—G. S. Burleigh, Vassalboro, Me., Judge.

Award to Sotham's Old Times.

### Gossip About Stock.

Remember that November 16, 1899, is the date of the closing-out sale of a grand herd of Shorthorn cattle, the property of Mrs. Peter Sim, of Wakarusa, Kans.

This is the last call for the Poland-China sale of Sam W. Hill, to be held near Hutchinson, on Thursday, November 9, 1899, at which time 60 well-bred Poland-Chinas will go to new owners.

The Ridgewood Herd of Hereford cattle, owned by the late C. N. Whitman, was sold last week to J. W. Lowell, of Denver, Col., for the neat sum of \$38,000. This herd is at present located at Rube, Leavenworth County, Kansas.

Geo. W. Null, whose sale card will be seen in this week's Kansas Farmer, will have a fine lot of hogs for sale, which are line descendants from Anderson's Model, Perfect I Know, Chief Perfection 2d, Chief Tecumseh 2d, Guy Wilkes 2d, and Model of '97.

At Whiting, Kans., on November 6, the Newton Bros. will hold a public sale of 60 thoroughbred Duroc-Jersey swine, affording many inquiring readers a chance to get a start with this popular breed, which is growing in favor of swine-raisers generally.

The public sale of registered Shorthorns, to be held at Wichita, Kans., November 18, 1899, by Wm. H. Ranson, will afford a good opportunity to secure a good herd bull. Iowa Lord 12874, 11 bull calves, and 12 cows and heifers of Scotch and Bates breeding are offered for sale.

Auctioneer George Hungate reports a splendid sale at Waltham & Son's, near Carbondale, on the 30th ult. The entire offering of Poland Chinas, including two litters of May pigs, averaged within a few cents of \$15.00 per head. This is the fifth annual sale at Mr. Waltham's conducted by Hungate.

Good things do not easily slip through Kansas fingers, and before T. F. B. Sotham could get away to Weavergrace from the Hereford sale at Kansas City with his \$1,200 Jack Hayes 68810, from John Sparks's Alamo herd, Frank Rockefeller had the bull and Mr. Sotham had—well, "satisfactory remuneration."

The big Kansas sale of Higgins's Hope Herd of 75 head is to be held at Hope, Kans., November 8. Hope is located on the Santa Fe and Missouri Pacific lines,

with stations near on the Rock Island line. Breeders and stockmen should not overlook this sale. Send for catalogue at once to J. W. Higgins, Jr., Hope, Kans.

Geo. Groenmiller & Son, of Centropolis, Kans., have recently purchased some fine Red Polled cattle from the herds of S. A. Smith, Blue Springs, Neb., and O. P. Russ, of Enyart, Mo. They report their stock in excellent condition and invite visitors to see them, and will be pleased to answer any inquiries from any one desiring to purchase of them.

Chris. Huber, of Pontiac, Butler County, Kansas, held a very successful sale on October 16. His 2-year-old steers brought \$38.30 each, and yearlings \$29.80, while the calves averaged \$18.10. In his swine sale the boars averaged \$14.50, while the gilts brought only \$12.50. John Peters, of Pontiac, paid the highest price for a boar—\$23.

One of the choicest lots of high-class registered Herefords that will be offered this year will be that announced elsewhere in this issue by Gudgell & Simpson and Cornish & Patten, who will offer 60 head, consisting of top selections from their herds, now aggregating over 800 head. The date, Wednesday, November 29, the day before Thanksgiving, may tend to keep some prospective buyers from attending this sale, but the promoters say those who do come will have less competition as buyers. Write Gudgell & Simpson for copy of sale catalogue.

The Hereford sale last week was a muster ground for auctioneers and the cream of the profession was represented in the four who took part officially. Besides these—the well-known Cos. J. W. Judy, F. M. Woods, R. E. Edmonson, and J. W. Sparks—Col. J. N. Harshberger, of Lawrence, and the recently commissioned Col. O. P. Updegraff, of Topeka, were in the ring and did yeoman service for the Herefords. All were in the best of form and the best of humor, and along with the sellers, who set a good example of co-operation, kept the air of the sale pavilion well charged with "the true Hereford spirit."

Mains' Poland-China sale on October 23 passed off very nicely, notwithstanding the adverse weather of the week. There was no great demand for hogs, yet Col. Harshberger knocked them off promptly and made 10 boars average \$13.50 and 15 sows average \$15. Some of the principal sales were: Boar pig to J. W. Bean, Lindsborg, for \$26; boar pig to A. T. Smith, Tonganoxie, for \$24; boar to J. W. Sherwood, Dunavant, for \$20; sow to Henry Bell for \$20; sow to B. H. Ball for \$21; sow to Wm. Andreas for \$23. Mr. Mains has some stock on hand which he did not offer at this sale that are for his customers at private sale. They are fine individuals and of the best blood.

The sale at Waverly, Kans., held by H. Davison & Son, October 24, was pretty well attended, so far as numbers were concerned, but as to bidding there could have been a decided improvement. Of Messrs. Davison & Son's herd of fine Poland-Chinas only 13 boars were sold, and these averaged but \$10.73 per head, while 13 sows averaged \$13.50. The prices obtained were certainly too small considering the values offered. We venture to say that any pig purchased at that sale for less than \$25 was very cheap indeed. The stock were of the following strains: Success I Know, Lambing's Best, Upright Wilkes, Curry's U. S. Wilkes, Queen Tecumseh and Daisy Killough. Davison & Son have many fine animals left which they offer at private sale at prices which are right for both buyer and seller. They have been in the swine-breeding business many years, and keep only the very best stock for sale.

State of Ohio, City of Toledo, Lucas County, ss.

Frank J. Cheney makes oath that he is the senior partner of the firm of F. J. Cheney & Co., doing business in the City of Toledo, county and State aforesaid, and that said firm will pay the sum of ONE HUNDRED DOLLARS for each and every case of Catarrh that can not be cured by the use of Hall's Catarrh Cure.

FRANK J. CHENEY.  
Sworn to before me and subscribed in my presence, this 6th day of December, A. D. 1898.

A. W. GLEASON,  
Notary Public.  
Hall's Catarrh Cure is taken internally and acts directly on the blood and mucous surfaces of the system. Send for testimonials, free. F. J. CHENEY & CO., Toledo, Ohio.

Sold by Druggists, 75 cents.  
Hall's Family Pills are the best.

Samples copies of Kansas Farmer sent free on request.



**Horticulture.**

**TREES AS AGAINST GRAIN.**

D. C. BURSON, IN KANSAS CITY STAR.

The article published in your issue of August 14, descriptive of a catalpa-tree plantation at Farlington, its growth and value, has awakened a large and intelligent class to a subject perhaps new to them. The questions are now being asked as never before, "Will it pay to plant and cultivate forest trees? Is there as much money in tree-growing as in growing grain?"

These are important questions and as tree-growing is no longer an experiment it would be well for the grain-grower to place the two side by side for serious consideration. Trees are slow in bringing returns, but given a reasonable number of years the net result will be several times the profits derived from grain grown upon an equal area of land within a like period of time. As a basis of calculation in support of my contention, suppose John Smith has 200 acres of rich bottom land, the product or income of which is for himself in old age, or for his heirs. Say the investment is for thirty years, and assume that he plants 100 acres of his land in forest trees and the remaining 100 in grain. Making no allowance for crop failures and taking a good average for the productiveness of rich land, the 100 acres in grain should yield in wheat 25 bushels to the acre, in corn 50 bushels to the acre. By alternating a full crop may be had every year. Assume that the wheat will bring 60 cents a bushel and the corn 30 cents. Grant that the expense of plowing, sowing and reaping will equal the value of one-half the crop, and there remains half the crop for market. On this basis Mr. Smith's annual income for thirty years would be \$750. Invested at 6 per cent interest, to be compounded annually, Mr. Smith's net returns from his 100 acres of grain at the end of thirty years would be approximately \$42,750.

Now there isn't a grain-grower in the United States who will claim that my estimate on John Smith's crop is too low. I have aimed to be liberal and I do not know of a farmer who will average above \$7.50 an acre net profit on his grain land. The average farm price for wheat during the last six years has been 60 cents and for corn 31 cents, but it is a well-known fact that the average prices in recent years exceed the average for the last thirty years. Certainly I have dealt fair with the side of the grain-grower.

Now for the trees. There is a large variety of valuable timber that Mr. Smith may select from, but according to the report made on the Farlington plantation and smaller groves, the Catalpa speciosa possesses greater value. It is easily propagated, tenacious to life, is a rapid grower, can be utilized early, does not decay in the ground, and for furniture or inside work is equal to mahogany. Consequently, Mr. Smith desires to plant the entire 100 acres in catalpa-trees. To do this requires an extra outlay of money, and as Mr. Smith is not supposed to do any work, he lets the contract to an experienced tree man, who prepares the ground, furnishes and plants the trees and then cultivates, prunes and cares for them for eight or ten years. Ten thousand dollars should cover the contract, and as security for this amount Mr. Smith mortgages his farm for \$10,000 for fifteen years at 6 per cent. At the end of fifteen years his total indebtedness, including 6 per cent interest, compounded on his interest payments, would be almost \$24,000. This is more than he would owe, for after ten years he undoubtedly would begin paying off the principal. But I have expressed a wish to be liberal toward the side of the grain-grower and I will figure on the basis as stated.

To plant 100 acres would require 270,000 trees placed four feet apart. Allow 70,000 for loss and you have 200,000 for commercial purposes. Thinning should begin in ten years, at the end of which time 50,000 may be removed. These trees, according to actual plantation measurements, should average 30 feet in height and 8 inches in diameter. Each tree should be good for four or five fence posts, but place a value of only 10 cents on each tree and the revenue from the first cutting is \$5,000. Five years later, or at the end of fifteen years from the time of planting, 50,000 more trees may be removed.

These will average a foot in diameter. About 10,000 will make fine telegraph poles and, being practically everlasting, would sell for \$5 each. But place a stump value of only \$1 each on the telegraph poles and 25 cents each for the remaining 40,000 standing, and you have \$20,000 to add to your first sale, or \$25,000 with which to pay off the mortgage indebtedness of \$24,000.

At the end of twenty years 25,000 more trees, every one of which should be worth \$2, may be cut, but assume that this third cutting nets only \$25,000. Twenty-five years having passed, valuable saw timber is ready and worth \$3 and \$4 a tree, but credit 25,000 trees with \$50,000. Thirty years finds 50,000 trees still standing and the best growth on the 100 acres. Thirty years hence, or about the year 1930, lumber will be scarce and worth more than it is at present high prices, but we will sell the last 50,000 trees below present values. Careful measurements of 30-year-old catalpa-trees grown on rich land give them an average diameter of not less than 2 feet and height 60 feet. Each tree of this size should cut 400 or 500 feet of valuable lumber and also several railroad ties and fence posts and considerable cord-wood — more than enough to give the tree standing a value of not less than \$10. But place these magnificent trees at the low price of \$3 standing, or \$150,000 for the 50,000, the last on the plantation. Deducting the \$24,000 which paid the mortgage indebtedness, Mr. Smith has to his credit the magnificent sum of \$226,000, or more than five times the amount, compound interest included, received from the grain.

This may seem impossible and beyond reason, but go over my estimates carefully and the result will always be the same. As to the basis of my estimates, that for the grain-grower has been mentioned. Regarding the trees, reports from the Farlington or other plantations and current quotations in the lumber market will bear out the liberality of my figures. No grain-grower will assert that I have failed to give him his just due and the man can not be found who has grown a grove of catalpa-trees on rich land who will say that my estimate on trees is too high, or high enough. Then I was liberal in placing the first cost of the trees and more than liberal in fixing the probable loss. Further I have not allowed interest to Mr. Smith on the income derived from the several cuttings of trees which would add \$30,000 or \$40,000 more to the side of the catalpa. But the man who grows forest trees can well afford to present the grain man with a small sum like that, for he receives \$5 an acre income to the grain man's \$1.

The kidneys are small but important organs. They need help occasionally. PRICKLY ASH BITTERS is a successful kidney tonic and system regulator.

**The Rock Island Wall Map of the United States**

Is the best offered to the public. It is very large and especially adapted to school purposes. Every teacher of geography and every business office should have one. It will be sent post paid to any address on receipt of fifteen cents in postage stamps or coin. Address, JOHN SEBASTIAN, G. P. A., Chicago, Ill.

**Wise Words for Women.**

As long ago as 1882 The Michigan Stove Company of Detroit, Chicago and Buffalo placed upon the market a complete line of cooking and heating apparatus for all kinds of fuel and of the highest possible degree of merit—which they marketed under the name of "Garland" Stoves and Ranges, and as this name was applied to but the highest grade or quality of each type of stove or range their products were an electric success and the name "Garland" has always stood as the symbol of goods of first grade only, and are today the only goods of their kind sold under any trade name which are not made in several qualities. Other stovemakers, counting no doubt upon the credence of the public, commenced to apply a trade name to lines of goods varying in quality from very good down to the cheapest and most inferior grades and then imitated the shape and style of the "Garland" trade mark, even to the shape and arrangement of the lettering—copying even the colors in "Garland" posters, imitating the designs of "Garlands"—with the result that many unscrupulous stove merchants have been successful in selling third and fourth grade imitations of "Garlands" upon the statement that what they offered were "just as good" etc. The courts have closed the factories of some of the most shameless of these imitators, enjoined others, and yet there are those who escape the pale of the law and continue to dupe the public—whom, we repeat, are themselves to blame for not insisting upon having a "Garland" and nothing else.—Chicago Times-Herald.

Health for 10 cents. Cascarets make the bowels and kidneys act naturally, destroy microbes, cure headache, biliousness and constipation. All druggists.



**How One Mother Saved Her Daughter**

The first critical period in a woman's life comes at the passing of her girlhood. How to preserve the daughter's health at this crisis is the problem that confronts every mother of girls. Mrs. J. M. Riggs, of Carterville, Mo., solved the problem. She says:

"My daughter Josie during the winter of 1897-98, suffered a complete breakdown in health. She was thin and pale, had no appetite, and was so weak that she was unable to walk to school. Those who knew her condition said that she was in the first stages of consumption. Shortly after school closed, on the advice of a neighbor, we began giving her Dr. Williams' Pink Pills for Pale People. The effect on her condition was marvelous. Before she had taken half a box her condition was improved, and she kept on gaining appetite, strength and flesh until she was entirely well.

"She took three bottles of the pills and to-day there is not a healthier, more robust looking girl in Carterville. She is fiesher and healthier than ever before in her life."

Mrs. J. M. Riggs.  
Subscribed and sworn to before me, a Notary Public, this 15th day of October, 1898. Wm. Wolcott, Notary Public.

From the Journal, Carterville, Mo.

Dr. Williams' Pink Pills for Pale People contain, in a condensed form, all the elements necessary to give new life and richness to the blood and restore shattered nerves. They are an unfailing specific for such diseases as locomotor ataxia, partial paralysis, St. Vitus' dance, sciatica, neuralgia rheumatism, nervous headache, the after-effects of la grippe, palpitation of the heart, pale and sallow complexions, all forms of weakness either in male or female.

Dr. Williams' Pink Pills for Pale People are never sold by the dozen or hundred, but always in packages. At all druggists, or direct from the Dr. Williams Medicine Company, Schenectady, N. Y., 50 cents per box, 6 boxes \$2.50.

**PROTECT YOUR TREES** from Rabbits, Mice, Borers, etc. with our Improved Tree Protector. Less than a cent a tree. Send for our price list, circulars and testimonials. We also grow choice nursery stock at low prices.

**HART PIONEER NURSERIES,**  
Fort Scott, Kans.

**SEEDS AND POULTRY SUPPLIES.**  
Seeds, bulbs and poultry supplies, T. Lee Adams, 119 Walnut street, Kansas City, Mo.

**TREES** Large and fine stock of best varieties. Full catalogue mailed free. Established 1889. Over 150 acres.  
The Geo. A. Sweet Nursery Co., Box 1258, Danville, N. Y.

**MAKES YOUR PUMP Work Easy**  
Yankee Pump Governors make the hardest pump work easy as the easiest. Windmills turn in the lightest breeze. Managing agent wanted for each county. Money in this for you. Write to-day.  
**BANE MANUFACTURING CO., (Dept. F)**  
55 W. Washington St., Chicago.  
When writing mention Kansas Farmer.

**BRAND NEW TINNED STEEL ROOFING**  
THESE ARE THE ONLY TOOLS YOU NEED  
\$2.00 per Square of 10x10 feet, or 100 Square Feet.  
WE CARRY A COMPLETE STOCK OF ALL KINDS OF MERCHANDISE AND MATERIAL BOUGHT AT DISCOUNTS TO OUR CUSTOMERS.  
Write for Free Catalogue No. 61. Our Prices Are 25% of Others.  
**CHICAGO HOUSE WRECKING CO.,**  
WEST 35TH & IRON STS., CHICAGO.

**SMITH'S STRAWBERRY PLANTS 60 VARIETIES.**  
Old and new. Sample—Excelstor, Lady Thompson, Bisel, Splendid, etc. Price list free. One copy of "Strawberry Manual" sent for 10 cents. Address, B. F. SMITH, Lawrence, Kas.

**\$14 IT COSTS NOTHING** to try our Sewing Machines. We ship direct from factory to consumer. Save agents' profits. 30 days free trial. 117,500 sold. Warranted 20 Years. All attachments free.  
\$40.00 Arlington for.....\$14.00  
\$45.00 Arlington for.....\$16.00  
\$60.00 Kenwood for.....\$21.50  
Other Machines at \$5, \$8 & \$11.50  
Illustrated catalogue and testimonials free. Write at once for our special freight offer. Address, **CASH BUYERS' UNION,** 158-164 W. VanBuren St., B-64, Chicago, Ill.

**ADMINISTRATOR'S SALE OF REAL ESTATE.**

The following real estate belonging to the estate of David R. Youngs, deceased, in sections 26 and 27, township 12, range 15, Shawnee County, Kansas, is offered for sale upon the following terms and conditions:

1. The "Home" place, containing about 161-1-3 acres with good house and barn and other improvements too numerous to mention. A first-class farm. Price, \$6,700.00.
2. Eighty acres first-class land; about one-half plow land and balance good prairie-hay land. Price, \$3,000.00.
3. About 101 acres pasture land, well fenced and watered. Price, \$18.00 per acre.
4. About 101 acres first-class prairie-hay land. Not for sale until tract No. 1 is sold. For sale with No. 1, at \$25.00 per acre. For sale separately after sale of No. 1 at \$25.00 per acre, or with tract No. 3 at \$21.00 per acre for both.
5. All of the above land, amounting to about 443 acres and lying contiguous and constituting a large, complete and well improved crop, fruit and stock farm, situated about seven miles southwest of Topeka near the Burlingame road, for \$13,800.

**TERMS OF SALE**—One-third cash, one-third in two years and balance on long time. Interest on deferred payments at 6 per cent per annum, secured by mortgage. Possession given March 1, 1900, if sold before January 1, 1900.

**COMMISSION ON SALES**—To any one making a sale I will pay a commission of 5 per cent on any amount not exceeding \$3,000.00, and 3 per cent on any amount in excess of \$3,000.00 derived from any sale. Sales must, however, be made and reported by December 30, 1899.

**CHAS. F. SPENCER,**  
Administrator, with will annexed,  
Bank of Topeka Building, Topeka, Kans.

**STARK TREES BEAR FRUIT**  
Best by Test—74 YEARS. Largest annual sale. High quality—Not high price. Finest sorts. We had 4 million Apple trees, whole-root graft 5 million—now 1- and 2-yr. Other Trees, Vines, etc., in proportion. 1400 acres Nursery 43,000 acres **We PAY FREIGHT** BOX and PACK free, ask No Money until **SAFE** arrival.—Guarantee **SATISFACTION** STARK Fruit Book free. Write us.—Visit us **We PAY CASH** each WEEK and want **MORE** HOME and traveling salesmen. **OUTFIT FREE.** STARK Market and Quality Kings PAY: Apple of Commerce, Black Ben Davis, Champion, Delicious, Ingram, Gano, Pritzaker, Bena-**STARK LOUISIANA,** MO., tor, Stayman Winesap; Gold **STARK** DANVILLE, N. Y. plum; Kieffer pear; Elberta, Poole **STARK** FAV., Emma peaches, etc. **STARK** MO., etc.



## In the Dairy.

Conducted by D. H. ORRIS, Assistant in Dairying, Kansas Experiment Station, Manhattan, Kans., to whom all correspondence with this department should be addressed.

### THE KANSAS BOY AND THE KANSAS DAIRY SCHOOL.

The Kansas Dairy School offers more and better instructions in all lines of dairy work this year than every before. A \$25,000 dairy building is now under process of construction to be finished January 1. It will be equipped with the latest and best dairy and creamery apparatus.

Kansas is fast becoming one of the leading dairy States in the Union; her income from dairy products for 1898 was over \$5,000,000. As she continues to increase in her yield of these products there will be a greater demand for young men who are educated in cheese- and butter-making; in the caring for, and handling of milk; and the feeding and management of the dairy herd. Heretofore the Kansas boy has had to go to other States if he wanted to get an education along these lines but it is no longer necessary for him to do so, for he can now get such an education within his own State, with no expense except for books and board while attending the school.

There is already a demand for young men to run skimming-stations and work in creameries, who have made a study of feeding and caring for the dairy cow. At the present time no other occupation offers so many opportunities to the young man as does dairying. It is true that wages to begin on are not always the best, but the young man with push and energy who possesses special training along his chosen line is bound to climb to the top.

To the Kansas boy I would say: think these things over and if you want to widen your sphere of usefulness come to the Kansas Dairy School this winter.

J. A. CONOVER.

Kansas Experiment Station.

### Protein in Corn.

The Illinois Experiment Station has published a very valuable bulletin, detailing experiments along the line of improving the chemical composition of corn. Cuts are given showing the outward appearance of corn containing 7.76 per cent of protein in contrast to corn containing 14.92 per cent protein. Professor Hopkins says that if a person will make cross and longitudinal sections of several kernels from an ear of corn, he can determine with a fair degree of accuracy whether or not it is rich in protein. In a cross section of a kernel of corn cut about one-third from the tip, the white starchy matter will be greatly diminished or may nearly disappear in corn rich in protein, but shows plain and large in corn poor in protein. A longitudinal section of the kernel will show the white starchy matter in the crown end when rich in protein but extends nearly to the tip in corn poor in protein.

This bulletin with illustrations has been reproduced in the September issues of the Kansas Farmer and an editorial review of the subject appears in the issue of October 5. Every dairyman in Kansas should study this bulletin, and select his seed corn in accordance with the amount of protein it contains. If it were possible to raise the protein content of corn from 7 to 12 or 14 per cent, it would be a blessing to the dairy interests of Kansas that could not be measured in dollars and cents. It should be borne in mind that the tables giving the analysis of our feed-

ing stuffs represent averages, and when the quality of our feed is above the average then its feeding value is greater than is indicated by the tables.

Protein is what makes milk, and is also the most expensive material to obtain. Every dairyman or feeder will find it decidedly to his advantage to select his seed of all kinds with a view of getting just as much protein as possible.

D. H. O.

The Kansas Creamery Company offers \$10 premium to the station operator reporting the greatest number in attendance at the coming meeting of the State Dairy Association from his place; and the privilege of closing the station for two days in succession in order to attend the convention is also given.

We heartily commend the action taken in this matter by the Kansas Creamery Company and would suggest that the other companies throughout the State make a like effort to secure a large attendance at this meeting.

The following letter, sent out by the company to each of its skimming-station operators, shows how much interest the company is taking in the coming meeting of the association:

"Dear Sir:—Professor Cottrell of the agricultural college informs us that he sent you three posters, one to be put up at your receiving platform, another one at the skim-milk tank, and one in your postoffice; calling the attention of your patrons and others who might be interested to the next meeting of the Kansas State Dairy Association, which meets at the agricultural college, Manhattan, November 22, 23, and 24.

"We are going to offer a premium of \$10 to our station operator who can report the greatest number in attendance from his point, providing that there are not less than ten in attendance from his place. We want at least 150 of our patrons, operators and farmers from our various territories to attend, and to secure them we must have the cooperation of our operators.

"We trust you will make a special effort to get this meeting thoroughly advertised, a program of which will doubtless be sent you a little later on. And remember, we have reduced rates for the occasion.

"We want, at this early date, to give you the privilege of closing up the station for two days in succession, namely, the 22d, and 23d, or the 23d, and 24th of November, so as to give you an opportunity to attend if you desire.

"Now, don't forget and report to us how many you will succeed in sending from your place, so we will know whether you are entitled to our premium or not.

"Hoping that you will make this one of your special duties from now on until the meeting, we are, yours very respectfully,

"THE KANSAS CREAMERY CO."

### Ration With Corn Fodder.

BULLETIN EIGHTY-ONE KANSAS EXPERIMENT STATION.

1. Corn fodder 26, bran 6, soy-bean meal 3, cottonseed-meal 1.
2. Corn fodder 20, oats 4, Kaffir-corn 2, soy-bean meal 3, bran 2½, cottonseed-meal 1.
3. Corn fodder 20, sorghum hay 7, bran 5, linseed-meal (o. p.) 2, cottonseed 2.
4. Corn fodder 20, mangels 10, corn 4½, cottonseed-meal 2, Chicago gluten-meal 2, linseed-meal (o. p.) 1.
5. Corn fodder 20, ensilage 20, bran 6, cottonseed-meal 3.
6. Corn fodder 15, millet 10, corn 1, Chicago gluten-meal 3, cottonseed-meal 2.
7. Corn fodder 15, sorghum hay 10, corn and cob meal 2½, cottonseed-meal 4, linseed-meal (o. p.) 2.
8. Corn fodder 15, prairie hay 8, oats 1, Kaffir-corn 3, soy-bean meal 3, cottonseed-meal 2.
9. Corn fodder 15, oat straw 10, bran 4½, linseed-meal (o. p.) 3, cottonseed-meal 2.
10. Corn fodder 10, mangels 10, millet hay 7, corn 5, Chicago gluten-meal 3, cottonseed-meal 2.

### The Composition of the Ration.

BULLETIN EIGHTY-ONE KANSAS EXPERIMENT STATION.

The weakest point in Kansas dairying is in the composition of the ration given, the average ration being greatly deficient in protein and having too much carbohydrates and fat. As no other substance can take the place of protein, the insufficient quantity given in the feed limits the milk yield and reduces it to that which the protein can form. Investigation has shown that a fair milk ration for an average 1,000 pound cow should contain about

2.5 pounds of digestible protein, 12.5 pounds digestible carbohydrates and 0.4 pounds digestible fat. Last winter many Kansas farmers fed their dairy cows prairie hay and corn.

|   | Protein, lbs. | Carbohydrates, lbs. | Fat, lbs. |
|---|---------------|---------------------|-----------|
| Twenty pounds prairie hay contains..... | .70           | 8.36                | .28       |
| Ten pounds corn contains.....           | .78           | 6.67                | .43       |
| Total.....                              | 1.48          | 15.03               | .71       |
| Needed.....                             | 2.50          | 12.50               | .40       |

This ration contains too much carbohydrates and fat, the materials which furnish heat and fat to the animal, and but little more than half enough protein, the material which is the basis of milk and blood, and with such a ration a cow could not possibly give a full yield of milk. Other dairymen fed corn-fodder and corn.

|  | Protein, lbs. | Carbohydrates, lbs. | Fat, lbs. |
|--|---------------|---------------------|-----------|
| Twenty-five pounds of corn fodder..... | .50           | 8.30                | .15       |
| Ten pounds corn.....                   | .78           | 6.67                | .43       |
| Total.....                             | 1.28          | 14.97               | .58       |
| Needed.....                            | 2.50          | 12.50               | .40       |

Here we have the carbohydrates and fat too high and the protein very much below the amount needed to secure a good milk yield. The feeder finding his milk yield low with such a ration, often doubles the grain. Under such a condition the ration would be twenty-five pounds corn fodder and twenty pounds corn, and would furnish

|             | Protein, lbs. | Carbohydrates, lbs. | Fat, lbs. |
|-------------|---------------|---------------------|-----------|
| Total.....  | 2.06          | 21.64               | 1.01      |
| Needed..... | 2.50          | 12.50               | .40       |

With such a ration the cows would give an abundant flow of milk for a little while, then dry up and fatten. The dairyman finding that neither the first nor second rations give satisfactory results, decides to substitute bran for corn-meal in the first ration. He would then have

|                                | Protein, lbs. | Carbohydrates, lbs. | Fat, lbs. |
|--------------------------------|---------------|---------------------|-----------|
| Twenty pounds prairie hay..... | .70           | 8.36                | .28       |
| Ten pounds bran.....           | 1.23          | 3.71                | .26       |
| Total.....                     | 1.93          | 12.07               | .54       |
| Needed.....                    | 2.50          | 12.50               | .40       |

This ration is better than either of the preceding ones, and with it the cow will give more milk than with them, but the supply of protein is insufficient for a full yield.

A bottle of Prickly Ash Bitters in the house and used occasionally, means good health to the whole household.

### New Through Pullman Service Between Denver and St. Louis.

On June 18 the Great Rock Island Route inaugurated through Pullman Sleepers between Denver and St. Louis via Kansas City and the Missouri Pacific R'y. East-bound car leaves Denver daily at 2:35 p. m.

## NEW 20TH CENTURY CREAM SEPARATORS



Sept. 1st marked the introduction of the Improved 20th Century "Baby" or "Dairy" sizes of De Laval Cream Separators and these newest "Alpha" disc machines are simply unapproachable by anything else in the shape of a cream separator. Overwhelming as has been the conceded superiority of the De Laval machines heretofore their standard is now raised still higher and they are more than ever placed in a class by themselves as regards all possible competition. Send for new catalogue.

THE DE LAVAL SEPARATOR CO.  
RANDOLPH & CANAL STS., CHICAGO. | 4 CORTLANDT STREET, NEW YORK.

on the "Colorado Flyer," arriving in St. Louis 6:15 p. m. the next day. Westbound car leaves Kansas City daily on "Colorado Flyer," at 6:30 p. m., arriving in Denver 11 a. m. next day. This is the fastest through car line between Denver and St. Louis. The cars are broad vestibuled, of the latest pattern and most luxurious type. Advantages in patronizing this service will be: The quickest time, no change of cars, absolute comfort. The best Dining Car Service in the world. For full information see your agent or write

E. W. THOMPSON, A. G. P. A., Topeka.

"I think," remarked the front row patron of burlesque shows, as he climbed into the barber chair, "that I'll have a hair cut."

"Yes," answered the tonsorial artist. "Which one, please?"—Chicago News.

AGENTS WANTED. All Inquiries Answered.

**THE BEST FOR THE DAIRY,**  
be it large or small, is the celebrated

**Kneeland Omega Separator**

Least in cost, greatest in economy, simplicity, durability; slow speed, so little power required, and easy to operate. Only two parts to clean, which can be done in 3 minutes. No possible clogging in the bowl. An all around machine of highest quality. Guaranteed to satisfy, or your money back.

"Good Butter and How to Make It," is our free book, of value to everyone. Send for it.

THE KNEELAND CRYSTAL CREAMERY CO.,  
46 Concord Street, Lansing, Mich.

## Mr. Dairyman:

Are you getting all the cream from your milk by your present method? We should like to put an



## Empire Cream Separator

in your dairy and compare results. If you do not make enough extra butter to pay for it in 6 months, we will not ask you to keep it.

The Empire is as much in advance of the old style separators as the latter are of the setting system.

Six sizes of hand machines ranging in price from \$40 up. Catalogue free.

U. S. Butter Extractor Co., Newark, N. J.

## "Always in the Lead and Now Better Than Ever." THE UNITED STATES CREAM SEPARATORS.

The Improved United States Cream Separators have been proven by tests repeated from year to year, at all Agricultural Experiment Stations in the last four or five years, to be superior to all other Cream Separators, many tests of the skim milk showing only .01 or .02, and are now still further improved and greatly increased in capacity for

### 1900 OR THE NEW CENTURY.

All experienced Cream Separator operators concede that the United States is unapproached in thoroughness of separation and perfection of manufacture. All gears are enclosed; Bowl Spindle covered with brass shield; have ball bearings. The most cost is put into their manufacture, and they are therefore better and will wear longer, yet are sold for less than others considering capacity and close skimming—are therefore the cheapest, because the best.

### Examine "New Century" Prices and Capacities.

| No.     | Low Frame. | Capacity | 150 to 175 lbs., | \$50.00  |
|---------|------------|----------|------------------|----------|
| No. 8.  | "          | "        | 225 to 250 "     | \$65.00  |
| No. 7.  | High       | "        | 275 to 300 "     | \$85.00  |
| No. 6.  | "          | "        | 350 to 400 "     | \$100.00 |
| No. 5.  | "          | "        | 450 to 500 "     | \$125.00 |
| No. 3½. | "          | "        | 650 to 700 "     | \$165.00 |

Don't be inveigled into purchasing a Cream Separator until you have first sent for the "New Century" Catalogue of the United States, which will be mailed you free.

Agents wanted in all towns not at present canvassed  
**VERMONT FARM MACHINE CO.,**  
BELLOWS FALLS, VERMONT.



BREEDER'S DIRECTORY. (Continued from page 1.)

CATTLE.

30-HEREFORD BULLS-30

H. A. NABER, Wallula, Kans., breeder of pure-bred Hereford cattle. Has for sale 30 pure-bred registered Hereford bulls, 6 to 15 months old, sired by Anxiety Grove 2d 60624. Also a lot of choice heifers bred to Grove Gentry 8th. Also some Cotswold rams. Railroad station is East Fairmount, Kans., on Santa Fe, 25 miles west of Kansas City. Change cars at Holiday.



BELVOIR HERD HEREFORDS OF THE VERY BEST BREEDING.

Herd bulls: Princeps 66683, Ben Butler 54079, and McKinley 68296. Ten yearling bulls and a few females for sale.

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

THE VINEWOOD HERD.

SHORTHORNS THAT ARE FEEDERS.

A herd of growthy, easy fattening Scotch and Scotch-topped cows headed by the Cruickshank bulls, Lavender King 4th 108682, from J. H. Potts & Sons' young herd of World's Fair prize-winners, and Gloster Vol. 4.

D. K. KELLERMAN & SON, Mound City, Linn Co., Kans. Vineyard Farm one and a half miles north of Missouri Pacific depot.

H. M. Satzler, Burlingame, Kansas, BREEDER OF...

HEREFORD CATTLE, BERKSHIRE SWINE, COTSWOLD SHEEP. STOCK FOR SALE.



GALLOWAYS Are the original POLLED BEEF BREED

For full particulars write to FRANK B. HEARNE, Secretary American Galloway Cattle Breeders' Association, Independence, Mo. If you want to buy a Galloway he can give you the address of breeders.



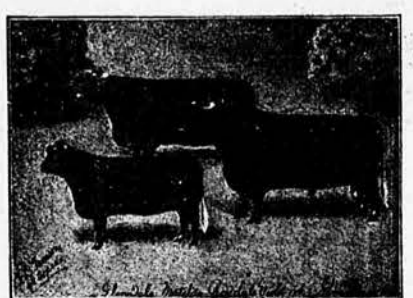
HERD BULLS FOR SALE

KANSAS LAD 134085, eighteen months old sired by Duke of Kansas 123126, and tracing to Imp Orlando and Imp Golden Galaxy. Also CONSTANCE DUKE 134083, twenty months old, by Duke of Kansas out of 5th Constance of Hilldale by 6th Duke of Oxford 56784. These two grand bulls should be herd-heads. Come and see them or address B. W. GOWDY, Garnett, Kansas.

ELDER LAWN HERD OF SHORTHORNS.



Herd headed by GALLANT KNIGHT 12466. The herd females are Scotch, Scotch-topped, Bates and American families. For ready sale, a few choice serviceable bulls, and bred cows and heifers. Address T. K. TOMSON & SON, Dover, Kans.



GLENDALE SHORTHORNS, Ottawa, Kans. Leading Scotch and Scotch-topped American families compose the herd, headed by the Cruickshank bull, Scotland's Charm 127284, by Imp. Lavender Lad, dam by Imp. Baron Cruickshank. Twenty bulls for sale. C. F. WOLF & SON, Proprietors.

CATTLE.

Registered Hereford Cattle

Young Bulls For Sale W. L. BANS, Eldorado, Kansas.



CEDAR HILL FARM.

Golden Knight 108086 by Craven Knight, out of ton's Gold Drop, and Baron Ury 2d by Godoy, out of Myra 50th, head the herd, which is composed of the leading families. Young bulls of fine quality for sale. C. W. TAYLOR, PEARL, DICKINSON CO., KANS.

HORSES.

EARLIEST IMPORTERS

OLDENBURG AND GERMAN COACH HORSES.

Fresh, Large Importation Recently Received. Come and See Our Stock.

Merit Tested by Many Prizes at Numerous State Fairs. Satisfactory Guarantees as to Usefulness Furnished.

OLTMANN BROS., Watseska, Ills., and Leex, Germany.

PROSPECT FARM

H. W. McAFEE, Topeka, Kansas.



Breeder of PURE-BRED Clydesdale Horses and Scotch Shorthorn Cattle.

FOR SALE: Registered stallions and mares. Also the straight-bred Cruickshank herd bull, MY LORD 116563. VISITORS WELCOME.

POULTRY.

CHOICE BREEDING COCKS AND COCKERELS.

Fifteen White P. Rocks, 15 Silver Wyandottes, 20 Brown Leghorns, 10 Light Brahmas, 10 S. S. Hamburgs, 10 Black Langshans, 5 Black Javas, 12 Pekin drakes. All strictly first-class. Some are scored by Hewes and others. A. H. DUFF, Larned, Kans.

Barred and White Rock COCKERELS.

Ringlet and Empire Strains. Now is the time to buy, as I can sell you fine early hatched birds at \$1 each, which will later on, command from \$3 to \$5 each. Finest lot of youngsters I ever had. Pullets, 75 cents. Order quick and get the best. T. E. LEFTWICH, Larned, Kans.

200 BREEDERS—Also SPRING CHICKS.

Barred P. Rocks, White P. Rocks, Partridge Cochins, Buff Cochins, Light Brahmas, Black Langshans, Black Javas, Silver Wyandottes, White Wyandottes, S. S. Hamburgs, Brown Leghorns, White Leghorns, Penit Guineas, and Pekin ducks. All our fine breeders of this season, and our earliest spring chicks will go at half price during summer. Write me your wants. Circular free. A. H. DUFF, Larned, Kans.

LIVE STOCK AUCTIONEERS.

R. E. EDMONSON, (late of Lexington, Kentucky) and Tattersalls of Chicago, Limited, now located at 208 Sheldley Building, Kansas City, Mo., offers his services as Live Stock Auctioneer. All the herd and stud books. Wire before fixing dates.

J. N. HARSHBERGER, LIVE STOCK AUCTIONEER, LAWRENCE, KANS. 12 Years of experience. Sales made anywhere in the United States. Terms the lowest. Write before claiming date.

O. P. UPDEGRAFF, Topeka, Kansas, AUCTIONEER of Improved Stock, will make a specialty of making public sales of pure-bred stock, compiling catalogues, and otherwise promote the interests of breeders. Reasonable prices and first-class service guaranteed. Any breeder expecting to make a public sale will find it to his advantage to correspond with me.

W. Q. HYATT, The Old Reliable Live Stock Salesman

Sales made anywhere. Terms, \$10 for sales under \$1,000, over that amount 1 per cent and expenses. References, the best farmers and stock-raisers of the West for whom I have made sales. Write before claiming date. Also, breeder of Poland-China hogs. Young stock for sale. Carbondale, Kans.

Special Want Column.

"Wanted," "For Sale," "For Exchange," and small 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. Cash with the order. It will pay. Try it!

SPECIAL.—Until further notice, orders from our subscribers will be received at 1 cent a word or 7 cents a line, cash with order. Stamps taken.

I WILL PURCHASE soldiers' additional homestead right where entry was made prior to June 22, 1874, of less than 160 acres, and whether entry was cancelled or perfected. I also locate land warrants. Henry J. Adams, Attorney, 628 Kansas Avenue, Topeka, Kans.

FOR SALE OR TRADE—Standard bred, registered stallion, Piper 13716. Will trade for land or good work horses. For particulars address J. Welch Jr., Leavenworth, Kans.

HAVING SOLD MY FARM—I have for sale six fine Spanish jacks, at a great bargain. Will take good young stock—horses, cattle or sheep, or improved land. Baker's Stock Farm, Eldorado, Ohio.

FOR SALE—One registered Cleveland Bay mare, one filly and one stud colt. Address S. S. Morine, McPherson, Kans.

Incubator Hatching and Raising Small Chicks. A new book by an expert and successful poultry raiser. Not a new edition of "Ways-out Ideas for a chicken doctor book." Tells how to hatch and raise chicks that need no doctoring. A chapter on operating incubators and brooders, and several chapters on the care of small chicks. Tells what and how to feed them, a chapter on the effect of lice, on damp and filthy quarters, tells what causes bowel trouble, etc. The book sent to any address on receipt of 25 cents in silver or stamps. Address Sure Hatch Incubator Co., Clay Center, Nebr.

FARM FOR SALE—Two hundred acres—140 acres bottom land. Pond stocked with black bass. Good buildings one mile to R. R. Station. T. A. Turner, Rock Creek, Kans.

FARM FOR SALE—Very cheap. 160 acres in eastern Kansas. Fairly well improved, fine soil. A snap at \$16. Address Geo. E. Winders, Mt. Ida, Kans.

FOR SALE—A young jack. 8 years old past. Address E. Marple, North Topeka, Kans. Route 2.

RHEUMATISM—Cured in 5 days. Sample, 50 cents. This quantity has cured 10,000 people. Fits stopped free. Brazilian Drug Co., Chicago, Ill.

WANTED TO EXCHANGE—A beautiful guitar either for one dozen S. C. Brown Leghorn hens. Address Mrs. J. E. Tinney, Metairie Ridge, New Orleans, La.

WANTED—The address of some one who will ship me a few barrels of good winter apples. State price. W. V. Jackson, Coldwater, Kans.

FOR SALE—Pure bred Pekin ducks. Males 75 cents, females 50 cents each. Write A. E. Jones, Topeka, Kans.

SHORTHORNS FOR SALE—Twenty-seven cows and heifers—12 calves—Cruickshank—Young Marys, Rose of Sharon, and others. Cows mostly sired by the grand Cruickshank Royal Prince 10664; four bulls ready for service, sired by Young Mary bull, Glendon 119371, and by Jerry 125069; latter bull is head of herd. These are a fine lot, and as I have left the farm, MUST sell. Will take \$60 each, cash, if the entire herd is taken soon. All are registered except calves. Theodore Saxon, 222 West Eighth Street, Topeka, Kans.

FOR SALE—Shorthorn bulls from 4 to 20 months old. All reds. Also, St. Bernard pups. F. H. Foster, Mitchell, Kans.

FOR SALE—Good Berkshire boar pigs; ready for service. Write W. H. S. Phillips, Carbondale, Kans.

FOR SALE OR TRADE—For sheep or cattle, a silver gray Norman stallion, pure-bred but not registered. J. D. Marshall, Walton, Kans.

WE PAY \$15 per week and expenses for men with rig to introduce our Poultry Mixture in the country. Send stamp. Excelsior Mfg. Co., Parsons, Kans.

BLOCKS OF THREE—Two new subscriptions for one year for \$2, and in addition, a renewal for one year free to any old subscriber who sends two new subscriptions and \$2 in one order. Kansas Farmer Company, Topeka, Kans.

I WANT TO BUY a Kentucky-bred gaited saddle stallion. If you have one to sell, write me full description and price. If your description and price are satisfactory you will hear from me in answer. Address Newcomb, Kansas Farmer office.

FOR SALE—Fifty Light Brahma cockerels; \$1 each; three for \$2 50. Get your cockerels now and secure the best. F. W. Dixon, Holton, Kans.

WANTED—Cane, Millet, and Alfalfa seed; also limited quantities of Jerusalem Corn and Milo Maize. F. Barteldes & Co., Lawrence, Kans.

FOR EXCHANGE OR SALE—The pure Cruickshank bull My Lord 116563. Bred by Col. Harris, sired by Imported "Spartan Hero" 77382; dam Imported "Lady of the Meadow" vol. 30, page 615. Both from Cruickshank herd in Scotland. H. W. McAfee, Topeka, Kans.

FOR SALE—Conqueror 3742, Imported French Percheron stallion. Color, jet black, 16 1/2 hands high, weight, 1,700 pounds. Theodore Saxon, 222 West 8th St., Topeka, Kans.

300 Shropshire Rams. From choicest flocks of Canada and Michigan. Can sell you one crated or double-deck car-load. Also a few choice Hampshire and Cotswold, and 30 good Rambouillets. PLATT BROS., 1613-15 Genesee St., (Near Stock Yards), KANSAS CITY, MO.

VALLEY GROVE SHORT-HORNS. THE SCOTCH BRED BULLS Lord Mayor 112727 and Laird of Linwood 127149 HEAD OF THE HERD. LORD MAJOR was by the Baron Victor bull Baron Lavender 2d, out of Imp. Lady of the Meadow and is one of the greatest breeding bulls of the age. Laird of Linwood was by Gallahead out of 11th Linwood Golden Drop. Lord Mayor's help bred to Laird of Linwood for sale. Also bred Sheldan ponies. Inspection invited. Correspondence solicited. A few young bulls sired by Lord Mayor for sale. Address T. P. BABST, PROP., DOVER, SHAWNEE CO., KAS.

CHANCE TO BUY A FARM:—The well-known Sawyer ranch in Jackson County is now offered for sale in tracts of 160 acres or more, as purchasers may desire. The tract contains 2,890 acres and is situated twenty miles northwest of Topeka, five miles west of Hort on the Rock Island Ry. and eight miles north of Silver Lake on the U. P. Ry. The land is all choice farming land, is well fenced in sections, has about 1,000 acres in cultivation, and the balance is smooth prairie. There are extensive improvements on one section and a good school house near the center of the tract. Each section is well watered, and excellent water is obtained at from ten to thirty feet. For further description and prices apply to A. T. Daniels, Real Estate Building, 7th and Jackson Sts., Topeka, Kans.

WANTED—To trade for, or buy, a first-class jack and four thoroughbred Hereford bulls. Ed Warner, Mullinville, Kans.

FOR SALE—Fancy Poland-China pigs, very cheap. G. W. Harman, Ridge, Kans.

VALUABLE HERD BOAR—Will sell or exchange for gilts. Look Me Up, by Look Me Over, out of a granddaughter of Old One Price; 3 years old; sure breeder and all right; headed my herd two years and must sell for lack of use. Address R. H. Wheeler, Lawrence, Kans.

FOR SALE—What's Wanted Jr. 2d No. 18594, good enough in show condition to go anywhere. Extra fine breeder; am closing out. Sired by the show boar What's Wanted Jr. No. 10026. First dam Fanta No. (4184), and four dams back of her are prize-winners. F. W. Baker, Council Grove, Kans.

POLAND-CHINAS—No better anywhere. \$5 each. Write for breeding. M. C. Hemenway, Hope, Kans.

STRAWBERRIES—Irrigated plants for fall and spring setting for sale. Write for price list. H. E. GOODELL, Tecumseh, Kans.

FOR SALE—Twelve yearling grade Shropshire rams \$12 to \$15. Also breeding ewes. E. W. Melville, Eudora, Kans.

WANTED—To sell Polands and Berkshires; all ages. Very cheap. O. P. Updegraff, North Topeka, Kans.

BOAR PIGS—Sired by Hadley Model T 21927 for sale. Walter Roswurm, Council Grove, Kans.

DUROC-JERSEY SWINE—Choice registered stock from best of families. For sale by J. C. LEACH, Carbondale, Kansas.

DUROC-JERSEY SWINE—Young boars and gilts from best strains. None but first-class stock shipped. J. W. Shepherd, Chanute, Kans.

FOR SALE—10 high-grade Hereford and 10 high-grade Shorthorn bulls, 12 to 20 months old. Address Hugh A. Hodgins, Topeka, Kans.

BREEDERS' ANNUAL REPORT FOR 1899.—The great Kansas Live Stock Manual and proceedings of the Ninth Annual Convention of the Kansas Improved Stock Breeders' Association, contains 126 pages; price 25 cents. Address H. A. Heath, Secretary, Topeka, Kans.

FOR SALE—Imported English Coach stallion and Galloway bulls. W. Guy McCandless, Cottonwood Falls, Chase Co., Kans.

100 Duroc-Jersey swine for sale. On account of health will sell all my stock except 10 brood sows, at reduced rates next 30 days. Males old enough to use; gilts and pigs in pairs and trios. Pedigree with every pig. M. H. Alberty, Cherokee, Kans.

WANTED—Every breeder in Kansas to become a member of the Kansas Improved Stock Breeders' Association. Send membership fee of \$1.00 to H. A. Heath, Secretary, Topeka, Kans. and you will receive the Breeder's Annual Report for 1899.

BLOSSOM HOUSE—Opposite Union depot, Kansas City, Mo., is the best place for the money for meals or clean and comfortable lodging, when in Kansas City. We always stop at the Blossom and get our money's worth.

REGISTERED SHORTHORN BULL CALVES.—Prices, quality considered, defy competition. D. P. Norton, Dunlap, Kans.

FOR SALE—Imported and full-blood Percheron, Clydesdale and Coach stallions. Good individuals, colors and ages. For further information address W. H. McMillen, Manager, Box 204, Topeka, Kans.

BERDEEN-ANGUS BULLS—Twelve extra individuals of serviceable ages; registered. Wm. B. Sutton & Son, Russell, Kas.

"Haldressing and Manicuring taught by mail. Information free. Positions guaranteed. Moler College, Chicago, Ills."

YOUNG'S PATENT DEHORNING AND BRANDING CHUTE

Look there! See how Young's New Perfect Head Holder on his chute holds the head while being dehorned or branded. I also handle four different makes of dehorning clippers. Write for circulars. It is something you should have. W. S. YOUNG, McPherson, Kansas. Lock Box 1122.

Please mention Kansas Farmer when writing our advertisers.



MARKET REPORTS.

Kansas City Live Stock. Kansas City, Oct. 30.—Cattle—Receipts since Saturday, 8,039; calves, 2,019; shipped Saturday, 3,328 cattle; 815 calves. Beef cattle were fully steady; canners and stockers slow but steady. The following are representative sales: DRESSED BEEF AND SHIPPING STEERS.

Table with columns: No., Ave. Price, No., Ave. Price. Rows include various grades of beef steers.

Table with columns: No., Ave. Price, No., Ave. Price. Rows include Western Steers and Oklahoma Steers.

Table with columns: No., Ave. Price, No., Ave. Price. Rows include South West Steers and Colorado Steers.

Table with columns: No., Ave. Price, No., Ave. Price. Rows include New Mexico Steers and Texas and Indian Steers.

Table with columns: No., Ave. Price, No., Ave. Price. Rows include Western Cows and Native Cows.

Table with columns: No., Ave. Price, No., Ave. Price. Rows include Native Feeders and Native Stockers.

Table with columns: No., Ave. Price, No., Ave. Price. Rows include Stock Cows and Heifers.

Table with columns: No., Ave. Price, No., Ave. Price. Rows include various grades of cattle.

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Hard, No. 2, 63 1/2 @ 64 1/2; No. 3 hard, 56 @ 62; No. 4 hard, 51 @ 59; rejected hard, 50 @ 55c. Soft, No. 2, nominally 68c; No. 3 red, nominally 63 @ 66c; No. 4 red, nominally 58 @ 62c; rejected, 52 1/2c.

Corn—Receipts here to-day were 54 cars; a week ago, 65 cars; a year ago, 55 cars. Sales by sample on track: Mixed, No. 2, 29 1/2 @ 29 1/2; No. 3 mixed, 29 @ 29 1/2; No. 4 mixed, nominally 28c; no grade, nominally 27c. White, No. 2, 31c; No. 3 white, 30 1/2c; No. 4 white, nominally 29 @ 30c.

Oats—Receipts here to-day were 24 cars; a week ago, 19 cars; a year ago, 15 cars. Sales by sample on track: Mixed, No. 2, 23c; No. 3 mixed, 22 1/2 @ 22 1/2; No. 4 mixed, nominally 21c. White, No. 2, nominally 25c; No. 3 white, 24c; No. 4 white, 22c.

Rye—No. 2, 52 1/2c; No. 3, 50c; No. 4, nominally 49 @ 50c.

Chicago Cash Grain. Chicago, Oct. 30.—Wheat—Cash, No. 2 red, 70c; No. 3 red, 67 @ 70c; No. 1 northern spring, 70 @ 72c; No. 2 northern spring, 69 @ 72c; No. 3 northern spring, 64 @ 70c.

Corn—Cash, No. 2, 32c; No. 3, 31 1/2c. Oats—Cash, No. 2, 23c; No. 3, 22 1/2c.

St. Louis Cash Grain. St. Louis, Oct. 30.—Wheat—Cash, No. 2 red, elevator, 69c; track, 70 1/2 @ 71 1/2c; No. 2 hard, 67 @ 68c.

Corn—Cash, No. 2, 31 1/2c; track, 32 1/2 @ 32 1/2c. Oats—Cash, No. 2, 23 1/2c; track, 24 @ 24 1/2c; No. 2 white, 26 1/2c.

Kansas City Produce. Kansas City, Oct. 30.—Eggs—Strictly fresh, 14 1/2c per doz.

Butter—Extra fancy separator, 22c; firsts, 19c; seconds, 15c; dairy fancy, 18c; store packed, 14c; packing stock, 13c.

Poultry—Hens, 7c; broilers, 8c; roosters, 15c each; ducks, 6c; geese, 4 1/2c; turkeys, hens, 7 1/2c; toms, 6 1/2c; pigeons, 75c per doz.

Vegetables—Beans, \$1.25 @ 2.00 per bu. Hubbard squash, 60 @ 75c per doz. Pumpkins, 35 @ 50c per doz. Turnips, 35 @ 40c per bu. Onions, 55 @ 65c per bu. Peppers, 40 @ 50c per bu. Cabbage, home grown, 50 @ 85c per doz.

Potatoes—Home grown, 20 @ 30c per bu.; Kaw valley, sacked, 20 @ 25c per bu. Sweet, 35 @ 45c per bu.

Apples—Choice to fancy, \$3.00 @ 4.00 per bbl.; fair to choice, \$2.00 @ 3.00 per bbl., 65c @ 81.00 per bu.; culls and wind falls, 25 @ 40c per bu.

Game—Ducks, canvas back, \$1.00 per doz.; mallard, fat \$4.00, common, \$3.00 @ 3.50 per doz.; teal, fat \$2.25, thin 1.50; mixed, \$1.50; red heads, \$2.50; plover, \$1.00 @ 1.25; frogs, 35c @ 50c.

McINTOSH & PETERS COMMISSION CO., Live Stock Commission Merchants. Rooms 252-3-4 Exchange Building. KANSAS CITY STOCK YARDS.

Correspondence and Consignments Solicited. Market reports furnished to FEEDERS and SHIPPERS. REFERENCES: National Bank of Commerce, Kansas City, Mo.; Inter-State National Bank, Kansas City, Kans.; Bank of Topeka, Topeka, Kans. Telephone 164; Security Bank, Eskridge, Kans. Hickory, Mo.

Dana's White Metallic Ear Labels. Stamped with any name or address and consecutive numbers. Adopted by more than forty recording associations and thousands of practical stockmen. Samples free. Agents wanted. Prices reduced.

C. E. DANA, 62 Main Street, WEST LEBANON, N. H.

LAST CHANCE AT OLD PRICES. Hardened Steel Landside Double Board Plow, 12-in., at \$8.00, at \$11.00. Big Catalogue for 1900 ready Jan'y 1, free. Buy now before the advance in prices. Write now and get ready for spring work.

HAFGOOD PLOW CO., Box 506, Alton, Ill. Only Plow factory in the United States selling direct to farmers.

ROOF YOUR CORN CRIB WITH Corrugated Iron. Cheapest, Best and Most Easily Applied. The Kansas City Roofing & Gorrugating Co., 218 and 220 West Third St., KANSAS CITY, MO

TWO BIG MILLS IN ONE. BUY THE BEST. SEE THAT WHEEL? Gold Medal Line. GIANT KILLER DUPLEX SWEEP GRINDER No. 9. The oscillating sweep shown in above cut insures uniform grinding. It is only one of the many desirable improvements found exclusively in Giant Killer Feed Mills.

Free for the asking, our new Sweep Mill and Feed Cooker Catalogue describing large line of plain duplex and geared grinders, for 1, 2, or 4 horses. We ship from Omaha, Kansas City, St. Louis, Indianapolis, Bloomington, Minneapolis.

DAVIS GASOLINE ENGINE WORKS CO., WATERLOO, IOWA.

CANNON'S Dead Shot for HOG CHOLERA. Guaranteed to Cure and Prevent Cholera in Hogs and Fowls or money refunded. The only Remedy that has stood the test for seven years. Agents wanted. Write for circulars and testimonials. 50 cents and \$1.00 per bottle. All Dealers

"PASTEUR" BLACK LEG VACCINE.

The original, genuine, and successful preventive vaccine remedy for Blackleg. In powder form: "Single" application, \$1.50 per packet, (10 to 12 head); "Double" application, \$2.00 per double packet, (10 to 20 head). Also "BLACKLEGINE," Single application vaccine READY FOR IMMEDIATE USE: Ten head, \$1.50; twenty head, \$2.50; fifty head, \$5. Beware of substitutes for, or imitations of our well-known "Pasteur" Vaccines. Write for particulars and proofs of success during four years.

PASTEUR VACCINE CO., CHICAGO. OMAHA. DENVER. FORT WORTH.

The Kansas City Stock Yards. FINEST EQUIPPED, MOST MODERN AND BEST FACILITIES.

The Kansas City market, owing to its central location, offers greater advantages than any other.

Twenty-Two Railroads Center at these Yards. Largest Stocker and Feeder Market in the World. Buyers From the.....

ARMOUR PACKING COMPANY, SWIFT AND COMPANY, SCHWARZSCHILD & SULZBERGER CO., JACOB DOLD PACKING COMPANY, GEO. FOWLER, SON & CO., Ltd., CUDAHY PACKING COMPANY.

Principal Buyers for Export and Domestic Markets in Constant Attendance.

Table with columns: Official Receipts for 1898, Sold in Kansas City 1898, Cattle and Calves, Hogs, Sheep.

C. F. MORSE, Vice-Pres. and Gen. Mgr. E. E. RICHARDSON, Secy. and Treas. H. P. CHILD, Asst. Gen. Mgr. EUGENE RUST, Traffic Manager.

Sunny Slope Herefords.

CONSISTING of 32 BULLS, from 12 to 18 months old, 21 2-year-old HEIFERS, the get of Wild Tom 51292, Kodax of Rockland 40731 and Stone Mason 18th 42397, and bred to such bulls as Wild Tom, Archibald V 54433, Imported Keep On 76015 and Sentinel 76063, Java 64045.

40 1-year-old HEIFERS and 7 COWS. These cattle are as good individuals and as well bred as can be bought in this country. Finding that 400 head and the prospective increase of my 240 breeding cows is beyond the capacity of my farm, I have decided to sell the above-mentioned cattle at private sale, and will make prices an object to prospective buyers.

Address C. A. STANNARD, Emporia, Kans.

1839. THE "CORRECTORS" ARE HERE. 1899. THE "IMPROVERS" ARE COMING.

WEAVERGRACE BREEDING ESTABLISHMENT.

The Weavergrace Past is Sealed With the Approval Of America's Stockmen. The Weavergrace Future Promises A Record Excelling All Previous Achievements.

The Weavergrace present will bear the closest investigation and comparison. No Hereford is too good for Weavergrace. Neither time, labor, money nor any other factor within our reach will be spared in an open, honest, energetic effort to make the WEAVERGRACE HEREFORDS the best herd of beef cattle in the world. Nothing from the herd offered privately. All reserved for annual spring auction. Three hundred and sixty-four days of the year devoted to the general Hereford interests, one day to the sale of the Weavergrace Herefords. I have an Unrivaled List of registered Herefords (both sexes) and of grade Hereford steers and fem ales on file for sale throughout the country, in my office, New York Building, Chillicothe. There are several great bargains. All are invited to inspect this list, and spend a day at Weavergrace. T. F. B. SOTHAM, Chillicothe, Mo. Hereford literature on application; also a colorotype reproduction (16x22) of an oil painting of Corrector, free to all who will frame it.



## The Poultry Yard

### Coming Poultry Shows.

Secretaries of poultry associations are invited to send announcements of coming poultry events for publication in this column.

Harvey County Poultry Association—R. R. Hobbie, secretary; C. H. Rhodes, judge, Newton, Kans., December 4-9, 1899.

Southern Kansas Poultry and Pet Stock Association—Sealy L. Brown, secretary; L. P. Harris, judge, Coffeyville, December 11-14.

Associated fanciers of the Arkansas Valley—Mrs. H. P. Sweedfeger, secretary; W. S. Russel, of Iowa, judge, Wichita, January 1-6, 1900.

Kay County Poultry Association—Geo. M. Carson, secretary; H. B. Savage, judge, Blackwell, Okla., January 17-20, 1900.

Butler County Poultry and Pet Stock Association—John C. Hoyt, secretary; J. C. Snyder, judge, Eldorado, Kans., December 26-30, 1899.

### THOUGHTFULNESS.

This is indeed an anxious season of the year for the poultry-breeder who is really interested in his calling. Those who have chicks hatched out are giving them all their best care and thought in rearing them and keeping their enemies from them. The problem of sitting hens is figured and scanned from every conceivable standpoint which their peculiar habits during the brooding season suggests. A few chicks have arrived and more are to follow in quick succession. These are placed in the brooder or cared for in some other well-approved manner, that they may reach their "manifest destiny."

It will require more than ordinary thoughtfulness to set and care for the hen and look after the little chicks upon arrival. If they are properly hatched, which means without vermin or infection, and are ushered into the world under favorable auspices, it will still require thoughtfulness to keep them going in that way until they are ready for the market.

It is the thoughtless person who feeds the chicks the first twenty-four hours, for all thoughtful persons know they do well without feed during this time. The brood coop should always be kept under shelter, or a shelter will do no good if it is remote from the chicks to be sheltered, depending on their instincts to cause them to seek it. A hen or a chick will just as easily lose its head in a sudden shower as some men will when they are exposed to sudden changes in their surroundings. The thoughtful person will see at a glance that little chicks will not thrive on sour food and that it is useless to leave feed for them until the next feeding time. They will see at a glance that a broad shingle or a board will be a good place to feed them and when they have eaten the remaining food can be thrown away out of their reach, which means that they will be provided with fresh food all the time, and then there will be little danger from eating sour food to disturb their digestion. The thoughtful person will also see at a glance that the little chick will require to be fed often, which may mean every two hours for the first two weeks, gradually reducing the frequency. Thoughtfulness will suggest fresh drinking water, and also the necessity for some method to keep them out of it with their feet. More substantial food will be given later and if kept from the rats and other vermin they are reasonably safe under thoughtful management. The one thing which causes failure oftentimes is not doing as well as we know. It is true some may be due to ignorance, but much is also due to thoughtlessness.—Live Stock Indicator.

## The Family Doctor.

Conducted by HENRY W. ROBY, M. D., consulting and operating surgeon, Topeka, Kas., to whom all correspondence relating to this department should be addressed. Correspondents wishing answers and prescriptions by mail will please enclose one dollar when they write.

### Wind in the Stomach.

To the Family Doctor: Will you please tell me what one can do for an apparently very healthy baby of 3 months to relieve it of wind in the stomach? Please answer through the Kansas Farmer. MRS. H. E. G. Longford, Kans.

What you and a multitude of other people call "wind" in a child's stomach, is not wind at all. That is, it is not air, such as we breathe, but gas—the gas of decomposition of food that is not properly digested.

Any food in the stomach of child or man, that is not readily dissolved by the gastric juice and thus prepared for absorption by the absorbing glands in the alimentary canal, is rapidly converted into gas and escapes upward or downward, according to its position in

# FREE MEDICINES AND APPLIANCE

### To any honest man who may try them a reasonable time.

If he is pleased with the result, he is to keep and pay for them. If he is dissatisfied, he has simply to return the appliance and remainder of medicine to us, and that ends the transaction without any expense whatsoever. There is no C. O. D. fraud, no deception of any nature.

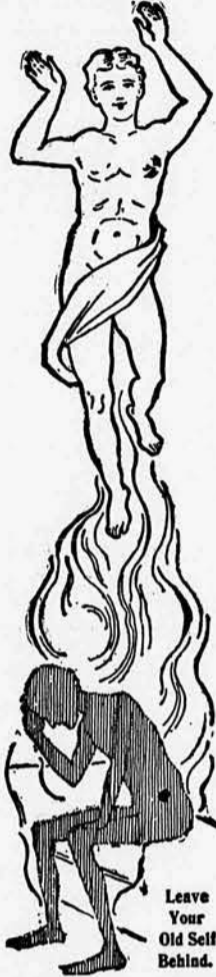
Our treatment is so sure to give bodily strength, to remove impediments to marriage, to stop unhealthy losses, to bring natural development and tone to every portion of the body, and to restore to weak men the feelings and buoyancy of youth, that we gladly make this offer in good faith.

If you are interested and in earnest, write your name and address in the blank form below, cut out the coupon and mail it to Erie Medical Co., Buffalo, N. Y.

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66 Niagara St., Buffalo, N. Y.

Sirs: As per statement in Topeka Kansas Farmer, you may mail to me, under plain letter seal, postage paid, full explanation of your new system of furnishing your Appliance and Remedies to reliable men on trial and approval without expense—no payment to be made in advance—no cost of any kind unless treatment proves successful and entirely satisfactory. Also mail sealed, free, your new medical book for men.

(Fill in name and address in full.)



Leave Your Old Self Behind.

(38)

## THE 20TH CENTURY POULTRY BOOK

is undeniably the best and most instructive publication of the kind ever issued. It opens up with a resume on the size and magnitude of the poultry industry and follows with "Poultry Raising on the Farm," "Poultry and Incubators on the Farm," "Feeding Specially for Eggs," "Feeding Broilers for market," "Successful Egg Farming," "Capses for Profit," "The Pekin Duck Industry," etc., etc. It tells incidentally about the old standard RELIABLE INCUBATORS AND BROODERS and the results their use have produced, the success to which they have helped their users, etc. Tells all about the new "wrinkles," new improvements, new machines, etc. We send The 20th Century Book to all RELIABLE INCUBATOR & BROODER CO., BOX 85 QUINCY, ILL.

## HIGH-GRADE INCUBATORS

WE CAN SUIT YOU IN PRICE AND WE GUARANTEE TO PLEASE YOU IN QUALITY. What more could we do? Our catalogue tells all and is devoted largely to practical matters pertaining to poultry raising. Has 148 pages; mailed to any address for 6c. No wild and woolly statements, toy outfits, nor prize package lots to offer. Fair treatment, prompt service and full value are what we try to give our customers.

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—terrible calamity. The tip of a horn often does it in trying up cattle. Cut off the horns quickly and humanely with the **Keystone DEHORNING Knife** slides, no crushing or tearing. Highest Award World's Fair. FULLY GUARANTEED. Write A. C. BROSIUS, COCHRANVILLE, PENN. Or W. S. Young, McPherson, Kans.

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Hatches Chickens by Steam. Absolutely self-regulating. The simplest, most reliable, and cheapest first-class hatcher in the market. Circulars FREE. GEO. ETEL CO., QUINCY, ILL.

## Italian Bees.

Full colonies shipped any time during summer and safe arrival guaranteed. It will pay you to try my stock of Italian bees in the Latest Improved Hives. Nothing will double in value quicker. A. H. DUFF, Larned, Kans.

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to weave fence of coiled hard steel spring wire at half price of factory fence. \$25 buys wire for 100 Rod Fence. Catalogue Free. Address, Carter Wire Fence Mach. Co. Box 45 Mt. Sterling, O.

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WE BOUGHT The Omaha Exposition and have 12,000,000 feet for sale. Send us your bill for our estimate. Write for free illustrated Catalogue No. 61 on general merchandise from Sheriffs and Receivers Sales. Address Chicago House Wrecking Co., CHICAGO, ILL.

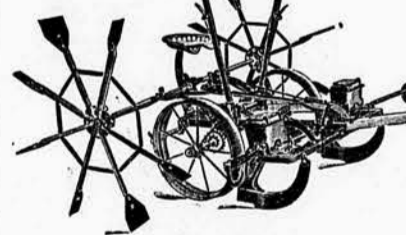
## Save Hogs.

Prevent Hog Cholera by giving occasional doses of a remedy that has saved thousands. You can buy drugs and make it for 10 cents a pound. Fifteen years a success. Recipe and full directions \$1.00. Sent to any address by H. D. RECORD, Kiowa, Kans.

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Pivotaly attached, independent of the planter, allowing lateral flexibility, the point that makes it successful. Manufacturers and dealers will try to unload all their old wire machines onto farmers next spring to prepare for the "Wireless," which will be the only machine the following spring Do not carry their loads. Insist upon your dealer furnishing you a

### "WIRELESS"

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## IMPLEMENT MANUFACTURING CO., DAVENPORT, IOWA.

## VARICOCELE

cured without knife, pain or danger. Illustrated booklet free. 10 W. 9th St., write. DR. H. J. WHITTIER, Kansas City, Mo.

## DR. LEAVITT'S Double Power DEHORNING CLIPPER.—V-blade.



## A HAY CROP

and its value depends upon how it is marketed. Baled Hay finds a ready market anywhere. "ELI" Baling Presses make the most even, compact bales. Save freight in loading full cars. East and safest to feed. Feed hols 8x30 inches. They are built to last. Require the minimum of power. Write for FREE illustrated catalogue. COLLINS PLOW CO., 1120 Hampshire St., QUINCY, ILL.

## Saw Your Wood

with Smalley or Battle Creek Wood Saws. More money can be made with our sawing outfits than with any other implement you can buy. SILENT FEED DRAG SAWS—5 SIZES. Circular or cut out, 12 sizes; also Baling or Picket Mills. Every machine sold under a positive guarantee to do perfect work. Also full line of Powers for operating. Catalog showing our Smalley line complete mailed free if you name this paper. SMALLEY MFG. CO., Sole Makers, Manitowoc, Wis.

## WELL MACHINERY

Send for catalogue illustrating the old Reliable Peck Well Auger, Rock Drill, Hydraulic Machinery, etc. FREE. Have been in use over 15 years and are no experiment. W. M. THOMPSON CO., Successors to Stutz City Engine & Iron Works SIOUX CITY, IOWA.

## Before Buying a New Harness

Send 5 cts. in stamps to pay postage on descriptive catalogue 100 styles of single and double work, for harness and leather harness to select from. Send direct to the consumer at wholesale price. We can save you money! KING HARNESS COMPANY, Mfrs. 220 Church St., Owego, N. Y.

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Operated by pumping Wind-mills. New principle, steady motion, speed 160 to 200 revolutions per minute; needs no attention after starting. B. A. Shafer, Sanborn, Ia., writes: "I feed 15 bushels of ground feed a day and could grind double this amount." Works well on 8 ft. or 10 ft. mills. It will double the value of your wind mill. AGENTS WANTED. If not sold by your dealer write us for inside price on a sample. Satisfaction guaranteed or your money refunded. GOODHUE ROTARY GRINDER CO., 153 Lake Street, Chicago.

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You are losing time, labor and DOLLARS every week that a "SHELDON" will save. Adds quantity and quality to your dairy product. None equals the "Sheldon" in simplicity, workmanship and finish. Write once for our special offer to first buyers and agents. It will surprise you. DON'T WAIT. Address, SHELDON CREAM SEPARATOR CO., 484 Clark St., CHICAGO.

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Original and Only Genuine. Safe, always reliable. LADIES ask Druggist for Chichester's English Diamond Brand in Red and Gold metal boxes, sealed with blue ribbon. Take no other. Refuse dangerous substitutions and imitations. At Druggists, or send 4c. in stamps for particulars, testimonials and "Relief for Ladies," in letter, by return Mail. 10,000 Testimonials. Name Paper, Chichester Chemical Co., Madison Square, PHILADELPHIA, Pa. Sold by all Local Druggists.

## RUPTURE Positively & Permanently CURED

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## Ladies Our Monthly Regulator never fails. Box FREE. Dr. F. M. May, Bloomington, Ill.

## BED-WETTING CURED. Sample FREE. Dr. F. E. M. y, Bloomington, I.



the alimentary canal, producing "wind" in the stomach or in the bowels. The child must be fed less frequently and less generously. If the child nurses, it must have regular hours for nursing and must, under no circumstances, be given the breast oftener than once in two hours, and at 3 months, or over, of age, two and one-half hours is a safer time. The stomach must have time to do its work and then rest a while before commencing again. And since the stomach is out of order, the quantity of food should be very much reduced, at each feeding, until it digests the whole meal without belching. Then the quantity can be gradually increased.

Half a meal well digested will nourish the child far more than a double meal resolved into primary gasses and belched up. For, then, it does not get into the nutritive process at all. It simply goes through the chemical changes, of resolution back to the gasses of decomposition.

You may need a little medicine to correct the disorder that already exists in the stomach, and then you can keep the baby going all right, if you manage the feeding properly.

If it don't come out right, after a few days of proper feeding, write me and I will send medicine to improve the digestion. HENRY W. ROBY, M. D.

# Preserves

Fruits, jellies, pickles or catsup are more easily, more quickly, more healthfully sealed with Refined Paraffine Wax than by any other method. Dozens of other uses will be found for Refined Paraffine Wax in every household. It is clean, tasteless and odorless—air, water and acid proof. Get a pound cake of it with a list of its many uses from your druggist or grocer. Sold everywhere. Made by STANDARD OIL CO.

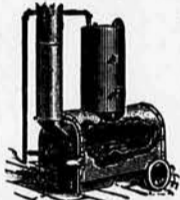
## THE FOUR BURR MILL.



Two mills in one with two sets of burrs. The largest ever made, 25 to 30 inches in diameter (four burrs), all grinding at once, having double the grinding surface and double the grinding capacity of other mills. Also double the durability. We manufacture the largest and best line of sweep mills sold, including the FAMOUS IOWA MILL No. 2 for \$13, and Four Burr Mogul Mill which grinds 60 to 80 bushels per hour. Get our catalogue before paying two prices for an inferior mill. Agents wanted. Manufactured and sold by the Iowa Grinder & Steamer Works, Waterloo, Ia.

## BOVEE WESTERN STEAMER.

Improved for 1899 with return flue. Fire surrounded with water and goes twice the length of boiler. Does three times the cooking with the same fuel used in other steamers. Steel boiler will last a lifetime. We also manufacture the best line of sweep mills ever sold, including the FAMOUS IOWA MILL No. 2, for \$13. Get our catalogue free. Agents wanted. Manufactured and sold by the IOWA GRINDER & STEAMER WORKS, 921 Commercial St., Waterloo, Iowa. Please mention the Kansas Farmer when you write.



## AFTER HARVEST, FENCING.

Now that your crops are all in, you will have time to attend to that fencing. The best farm fence you know, is THE ADVANCE FENCE. It's the one that is sold direct to the farmer at wholesale prices. Nobody can buy it cheaper than you can. Entirely interwoven. No loose ends. Circulars and special discounts free. ADVANCE FENCE CO., 130 Old Street, Peoria, Ill.

**Kees' Improved Corn-Husker**  
The greatest labor and hand saving tool ever made. Sold by hardware and general stores. Sent post paid for 35 cents. Address F. D. KEES, Beatrice, Nebr.

**ADMIRAL HAY PRESS**  
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The original three-stroke Triple Lever Full Circle Steel Hay Press. Shipped anywhere on Trial and Approval. Capacity 10 to 15 tons. Works easy. One or two horses. Fastest, lightest, strongest. Write for prices and get an ADMIRAL HAY PRESS.

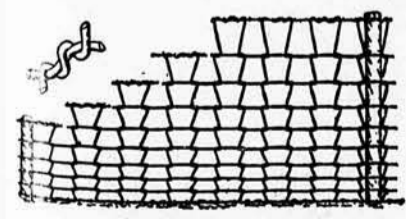


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ISN'T IT GENERALLY CONCEDED that Page Fence is the standard of woven fences? We try to make it such. Others try to imitate it. PAGE WOVEN WIRE FENCE CO., Adrian, Mich.

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The only scale with ball bearings.  
Fire and Burglar-Proof SAFES.  
Foos Gasoline Engines.  
Write for Catalogue.  
Borden & Selleck Co., 1109 Union Ave., Kansas City, Mo.

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GUARANTEED STANDARD  
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**Warner "Common Sense" Fence.**  
Patented November, 1896.  
OTHERS GOOD—NONE BETTER.  
More sold in Kansas than any other fence.  
It is made of heavy endless wire, with or without barbs top and bottom. Hog and pig tight. If your dealer does not sell it, write direct to us for prices and circular.  
COMBINATION FENCE CO., Melvern, Kans.

**INSURE YOUR PROPERTY**  
**THE FARMERS' ALLIANCE INSURANCE CO.**  
Established in 1888. Paid \$200,000 in Losses.  
The mutual plan is the cheapest and best. You pay for what you get at its actual cost. Every property owner can and should have the protection we offer. For agency or further information, address C. F. MIGNENBACK, Secretary, McPherson, Kansas.

**DO YOU WANT A FARM OR A RANCH?** 7,000,000 acres Ranch land—1,000,000 acres Farm land, located in NEBRASKA, KANSAS, COLORADO, WYOMING and UTAH. For sale by the UNION PACIFIC RAILROAD COMPANY at greatly REDUCED PRICES on ten years' time and only 6 per cent interest. LIBERAL DISCOUNT FOR CASH. Please refer to this paper when answering advt. B. A. McALLISTER, Land Commissioner, U. P. R. R. CO., Omaha, Neb.

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Insures Against Fire, Lightning, Windstorms, Cyclones and Tornadoes.  
The only company in Kansas with a paid-up capital of \$100,000. It writes more business in Kansas than any other company. It has paid losses amounting to \$493,266.63. Call on your home agent or write the company.

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Direct Line to the West. **UNION PACIFIC THE OVERLAND ROUTE WORLD'S PICTORIAL LINE.** Colorado, Wyoming, Utah, California, Oregon.  
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We use the X Rays in the Examination of Diseases. Consultation Free, in Person or by Mail. Write for Catalogue.  
**THIS SANITARIUM**  
Is a private hospital—a quiet home for those afflicted with medical and surgical diseases, and is supplied with all the remedial means known to science and the latest instruments required in modern surgery.  
**50 ROOMS**  
For the accommodation of patients, together with our complete Brace-Making Department, make this the largest, oldest and the only thoroughly equipped Sanitarium in the west. We treat Spinal Curvature by means of a suspension carriage giving ease and comfort to the patient while this dreadful deformity is being successfully overcome. Club Feet, Bow Legs, Knock Knees, etc. are successfully treated.  
**DISEASES OF DIGESTION.**  
Dyspepsia, "Liver Complaint," Obstinate Constipation, Chronic Diarrhoea, Tapeworm and kindred affections are among these chronic diseases in the treatment of which we have attained great success.  
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Space will not permit us to enumerate the diseases peculiar to women. We pay special attention to all the diseases, and have every advantage and facility for their treatment and cure. We have comfortable and well furnished rooms and offer a quiet home during confinement. We have a neatly prepared treatise describing Diseases of Women which will be mailed free to any address.  
**IF YOU ARE AFFLICTED** with any of the above diseases, or in any way in need of medical or surgical aid, and are thinking of going abroad for treatment, you are requested to call on the Editor of this Paper, who will give any information you may desire concerning the reliability of this Sanitarium. Address all communications to **DR. C. M. COE, Kansas City, Mo.**  
**PILES AND FISTULA.**  
There is nothing that so completely unfits a man for business as Piles. Many men and women suffer for life with this annoying disease. There is no cure so safe and permanent as a surgical operation. We have permanently cured hundreds of patients who have suffered for years, having tried all kinds of remedies without relief. We have published an illustrated book containing many testimonials from patients treated with entire satisfaction; will be mailed to you free.  
**VARICOCELE.**  
Varicocele is radically and permanently cured by our surgical operation in from five to fifteen days. No medicine or local application will ever cure this trouble. We annually cure hundreds of this class of patients, leaving them in a vigorous, healthy condition.  
**SURGICAL OPERATIONS**  
As a means of relief are only resorted to where such interference is indispensable. In such cases as Varicocele, Piles, Stricture, Fistula, Ruptures, Harelip, Cleft Palate, Cross Eyes, Tumors, etc. Although we have in the preceding made special mention of some of the ailments to which particular attention is given, the Sanitarium abounds in skill, facilities and apparatus for the successful treatment of all chronic ailments, whether requiring for its cure medical or surgical means. We have a neatly published book, illustrated throughout, showing the Sanitarium, with photographs of many patients, which will be mailed free to any address.



# POLAND-CHINA SALE EXTRAORDINARY

Hope, Dickinson County, Kans., November 8, 1899.

Seventy-five Head from "Higgins's Hope Herd"—Consisting of 47 spring pigs, both boars and sows, 11 matured sows with pigs at side, 13 matured sows not bred, 9 2-year-old boars and 11 yearling boars, sired by the herd boars, Eberly's Model 20854, Wren 17172, and Duke of Weston 16974, and out of such sows as Matchless B. (51182) by Duke of Weston; Low Tecumseh (48317) by Low Down Tecumseh 17658; Sensation Girl by Wren; May Tecumseh (47061) by Jubilee; April Lady (41400) by Corwin King 15413; Hadley White Face (48319) by Hadley Chip 15029; Short Stockings 2d (37728) by King Wilkes, and other good sows. Wren, the herd boar, was sired by Rosa Nell's Sensation 15894 out of Duchess May; Eberly's Model was by Iowa Trader 20850 out of Gladys (49421), and Duke of Weston was by Hoosier Boy 7830 and his dam was the famous Black Beauty 2d by Grover Cleveland. These three sires are among the best in the West. I desire to call especial attention to the size, bone, quality, and general high character of this offering. No such opportunity was ever offered in Kansas to secure valuable breeding stock at your own price. Send for Catalogue.

Am offering at private treaty, 50 2- and 3-year-old native steers; also, 50 3-year old steers, 50 2-year-old steers, 30 1-year old steers, and 30 1-year-old heifers—Arizona cattle having good colors and good quality, and summered in Kansas.

Col. J. N. HARSHBERGER, } Auctioneers.  
Col. J. N. BURTON. . . . }

J. W. HIGGINS, Jr., Hope, Kans.

**J. G. Peppard** MILLET CANE SEEDS  
1400-2 Union Avenue, CLOVERS TIMOTHY  
KANSAS CITY, MO. GRASS SEEDS.

## OUR ANNUAL POLAND-CHINA SALE

Will be held at Olathe, Kans., 1 P. M., November 13, 1899.

The Attention of Farmers as well as Large and Small Breeders

is especially called to this offering of growthy, plain-fed, young breeding animals, including 40 boars, 6 to 15 months; 25 gilts and 20 sows bred to Black Queens Chief, (weight, 900 pounds), Hadley I Know, and Tecumseh I Know. Write at once for Catalogue to  
Mention Kansas Farmer. W. P. GOODE & SONS, Lenexa, Kansas.

## PUBLIC SALE OF Poland-China Swine

THURSDAY, NOVEMBER 9, 1899.

To be Held at the Farm, 10 Miles Southeast of Hutchinson, Near Yoder Station, on the Missouri Pacific Ry.

The Crescent Herd of Poland-Chinas offers at this annual sale, 35 boars and 20 gilts of early spring farrow; also 5 sows with litters. Pigs are sired by Guy Darkness 18292 and Best Nims 19612. The stock represents good breeding, individual excellence and splendid condition. Come to Hutchinson and take Missouri Pacific morning train to Yoder Station where you will be taken to the farm. Ask for Catalogue.

J. P. McCormick, Auctioneer. SAM W. HILL, Hutchinson, Kans.

## NULL'S ANNUAL SALE FAMOUS POLAND-CHINA HOGS

At Farm, 4 Miles Northwest of Odessa, Lafayette Co., Mo., TUESDAY, NOV. 4, 1899.

Sixty as good hogs as I ever offered the public go in this sale. 30 boars and 30 sows and gilts. There will be 5 boars out of the world's champion brood sow, Anderson's Model, in this sale. Four of the boars are sired by the great prize boar, Perfect I Know, and one yearling boar by the noted Chief Perfection 2d. Come, rain or shine. Sale under tent. Free dinner. Sale begins at One O'clock P. M.

Col. J. W. SPARKS, Auctioneer.

GEO. W. NULL, Odessa, Mo.

## TOM C. PONTING & SONS' 3d Annual Hereford Auction



AT HOMESTEAD FARM, MOWEAQUA, ILL.,  
Wednesday, November 8, 1899.

Sixty Head of Registered Herefords—Thirty Bulls, from 6 to 20 months old; 30 Females, unbred, bred and some with calves at foot, will be sold to the highest bidder. Write for Catalogue. Sale will be held under cover; don't fail to attend.

Col. R. E. EDMONSON, Auctioneer, Kansas City, Mo. TOM C. PONTING & SONS, Moweaqua, Ill.

Moweaqua is 16 miles south of Decatur and 16 miles north of Pana on Illinois Central R. R. Good connections can be made so as to attend the Hereford sale of H. F. Pinnell, Paris, Ill., on the following day.

## Dispersion Sale OF Shorthorns at Auction

At the Farm of Peter Sim, near Wakarusa, Shawnee County, Kansas,

Thursday, November 16, 1899

The entire herd is to be sold at auction, consisting of the noted show and herd bull, Royal Bates 123675, and 6 young bulls, and 23 cows and heifers of the very best Bates and Scotch-topped Bates families. This sale will be the breeders' opportunity of the year. Catalogues on application. Address

Col. J. N. HARSHBERGER, Auctioneer.

Mrs. PETER SIM, Administratrix, Wakarusa, Kans.

## PUBLIC SALE OF SHEEP 450 High Class Shropshires 450

At Allerton, Vermillion County, Ill.,  
WEDNESDAY, NOVEMBER 22, 1899.

225 REGISTERED SHROPSHIRE, Consisting of 175 ewes, 25 ewe lambs, 25 ram lambs. Ewes sold in pens of 3; rams singly. Write for Catalogue. Col. L. D. PERRY, Columbus, O., Auctioneer. All bids sent to auctioneer will be treated fairly. Address GEO. ALLEN, Allerton, Ill.

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Eleven bull calves, from 5 to 11 months old; one cull, yearling past, and my herd bull, Iowa Lord, 2 years old last March. Also, 12 head of cows and heifers. TERMS:—Six months at 6 per cent interest; 5 per cent discount for cash.

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