ESTABLISHED, 1863. VOL. XXVI, No. 5.

TOPEKA, KANSAS, THURSDAY, FEBRUARY 2, 1888.

TWENTY PAGES.

BREEDERS' DIRECTORY.

Cards of four lines or less, will be inserted in the Breeders' Directory for \$15.00 per year, or \$3.00 for size months; each additional line, \$2.50 per year. A copy of the paper will be sent to the advertiser during the

HORSES.

M. D. COVELL, Wellington, Kas., breeder of Regis-tered Percherons Acclimated animals, all ages and sexes. At head of stud, Theophile 2795 (8746), black, imported by M. W. Dunham, and sired by his celebrated Brilliant 1271 (755).

WM. FINCH, Importer and breeder of English Shire, Clydesdale and French Draft Horses. Stock for sale. Livery and sale stable, 916 Kansas avenue, North Topeka, Kas. Correspondence respect-fully solicited.

R. I. BLACKLEDGE, Salina, Kas., breeder of Thor-brath Horses. Horses for sale. Correspondence so-licited.

PROSPECT FARM.—H. W. McAfee, Topeka, Kas., breeder of Thoroughbred CLYDESDALE HORSES and SHORT-HORN CATTLE. A number of choice buils, also horses for sale now. Write or call.

CATTLE.

WM. BROWN, Lawrence, Kas., breeder of Holstein-Friesian and A.J.C.C. Jersey Cattle. Onyx 3771 and Hepatica's Wayne 6500 and Golden Prize 11445 head herds. Write or come and sec.

J. S. HAWES, Colony, Kas., importer and breeder of J. Hereford Cattle. Lord Witton, Grove 3d and Fortune families. One of the largest and eldest herds in the country. Send for catalogue.

M. S. BABCOCK, Nortonville, Kas., breeder of Holonoville, Stein-Frieslan Cattle. Inspection and correspondence invited.

GEO. M. KELLAM & SON, Richland, Shawnee Co. Kas., breeders of Galloway Cattle and Hambletonian and Morgan Horses.

A. B. SPENCER, Rockport, Ohlo, breeder of Ayr-shire Cattle. Registered stock of deep milking strains. Prices to suit the times.

OAKWOOD HERD OF SHORT-HORN CATTLE.—All recorded. Choice-bred animals for sale. Price low. Terms easy. Imported Earl of Gloster 74522 heads herd. C. S. Eichholtz, Box 1208, Wichita, Kas.

W. E. GOULD, MARSHALL, Mo., breeder of Thorough Street and Grade Holstein-Friesian Cattle. Calumet 3582 H. H. B., heads herd—a choice butterbred Netherland bull. Have now in my herd imported cows and strains from Aaggle, Texalar, Astreas, Duchess of York, Coronet and Barent. Choice young stock of both sexes for sale.

T. M. MARCY & SON, Wakarusa, Kas., have for sale
Registered yearling Short-horn Bulls and Heifers.
Breeding herd of 106 head. Carload lots a specialty.
Come and sec.

JERSEY CATTLE—A.J.C.C. Jersey Cattle, of noted butter families. Family cows and young stock of eithersex for sale. Send for catalogue. C.W. Talmadge, Council Grove, Kas.

H. DAVIDSON, Wellington, Kas., breeder of herd in the State. Choice stock for sale at all times. Correspondence and orders solicited.

F. R. FOSTER & SONS, Topeka, Kas., breeders of HEREFORDS. Bulls for sale.

F MCHARDY, breeder and importer of GALLOWAY Cattle, Emporia, Kas. Young stock for sale at reasonable prices. Liberal credit given if desired. Mention Kansas Farmer.

DR. W. H. H. CUNDIFF, Pleasant Hill, Mo., proprietor of ALTAHAM HERD

and breeder of fashionable Short-horns. Straight Rose of Sharon bull at head of herd. Fine show bulls and other stock for sale.

J. S. GOODRICH, Goodrich, Kas., breeder of Thor-o oughbred and Grade Galloway Cattle. Thorough-bred and half-blood Bulls for sale. Sixty High-grade Cows with caif. Correspondence invited.

CATTLE AND SWINE.

M. H. ALBERTY, 'Cherokee, Kas.—Registered Hol-corded Poland-China Swine, Fekin Ducks, Wyandotte, Brown Leghorn, Plymouth Rock fowls. Eggs for sale.

J. MAILS, Manhattan, Kas., breeder of SHORT-HORN CATTLE AND BERKSHIRE SWINE. Some fine young bulls and choice pigs for sale now.

J. L. TAYLOR & SON—Englewood Stock Farm,
Lawrence, Kas., breeders of Holstein-Friesian Cattle and Poland-China Hogs. Stock for sale. Terms easy.

CATTLE AND SWINE.

H. S. FILLMORE, Lawrence, Kas., proprietor of Green Lawn Fruit and Stock Place, breeder of Jersey Cattle and Poland-China Swine. Stock for sale.

SWINE.

POLAND-CHINA SWINE.—If you want the best that money and experience can buy, send to me. The best herd in Kansas. Satisfaction guaranteed. Special rates by express. G. W. Sloan, Scottsville, Kas

PEGISTERED POLAND-CHINA SWINE—Of the most fashionable families, at low rates. Pigs ready to ship May 1. Also, pure Light Brahma Fowls. Wm. Plummer, Osage City, Kas.

Z. D. SMITH, Greenleaf, Kas., breeder and shipper of fine Peland-China Swine. Also Jayhawker strain of Plymouth Rock Fowls. Write for prices.

PEDIGREED POLAND-CHINAS—At prices that will sell them. Well loaded with Corwin blood and other popular strains. Marion Brown, Nortonville,

V B. HOWEY, Topeka, Kas., (Box 108), breeder and be shipper of the most fancy strains of Thorough-bred Poland-China Swine, Light Brahma and White Leghorn Chickens.

J. S. HAWES, Colony, Kas., breeder of Poland-boar at Chicago and St. Louis, and Moorish King, head the herd.

H.C. STOLL, BEATRICE, NEB., breeder and ship-per of the most fancy strains of Poland-China, Chester White, Small Yorkshires and Duroc-Jersey Hogs. Special rates by express companies. Satis-faction guaranteed in all cases.

ROBERT COOK, Iola, Kas., thirty years a breeder of Poland-China Swine of the very best and mos profitable strains. Breeders registered in O. P.-C. R.

WM. PLUMMER, Osage City, Kansas, breeder of Recorded Poland-China Swine. Also Light Brahms Chickens. Stock for sale at reasonable rates.

W. WALTMIRE, Carbondale, Kas., breeder for eight years of Thoroughbred Christian White Hogs and Short-Horn Cattle. Stock for sale.

F. M. LAIL, MARSHALL, Mo., breeder of the fines POLAND-CHINA HOGS AND PLYMOUTH ROCK CHICKENS.

Eggs in season, \$1 for 13. Catalogue free.

F. W. ARNOLD & CO., Osborne, Kas., breeders of pure-bred Poland-China Swine. Breeders all recorded in Ohlo Record. Young stock for sale. Also Wyandotte and Langshan Fowls and Pekia Ducks. Eggs, \$1 per 13.

BAHNTGE BROS., Winfield, Kas., breeders of Large English Berkshire Swine of prize-winning strains. None but the best. Prices as low as the lowest. Correspondence solicited.

STEWART & COOK, Wichita, Kas., breeders of Poland-China Swine. Stock of all ages for sale at

OUR ILLUSTRATED JOURNAL.—A full and complete history of the Poland-China Hog, sent free on application. Stock of all ages and conditions for sale. Address J. & C. STRAWN, Newark, Ohio.

SHEEP.

H. V. PUGSLEY, Plattsburg, Mo., breeder of MERINO 34 lbs. to 38% lbs. Extra rams and ewes for sale. Also Holstein Cattle.

SHROPSHIRE-DOWNS.—Ed. Jones, Wakefield, Clay Co., Kas., breeder and importer of Shropshire-Downs. A number of rams and ewes for sale, at lowest prices. according to quality.

POULTRY.

D. O. BACON, Fort Scott, Kas., breeder and ship-Rocks, Langshans. S. C. Brown Leghorns and Cham-pion strain of Pekin Ducks. Eggs and birds in sea-son. Correspondence solicited.

GEO. H. HUGHES, North Topeka, Kas., breeder of W. F. B. Spanish, L. Brahmas, Langshans, Buff Cochins, Leghorns, P. Rocks and Fancy Pigeons.

MRS. A. B. DILLE, EDGERTON, KAS., breeder and shipper of the finest strains of Wyandottes, Phymouth Rocks and Mammoth Bronze Turkeys. Stor or sale at all times and prices reasonable. Correspondence solicited and satisfaction guaranteed. Eggs in season.

HENRY DAVIS, Dyer, Indiana, breeder of high-class poultry. Twelve varieties. Prices reason-able. Stock for sale at all times. Eggs in season. Send stamp for circular. Mention Kansas Farmer.

SHAWNEE POULTRY YARDS—Jno. G. Hewitt Prop'r, Topeka, Kas., breeder of choice varieties of Poultry. Wyandottes and P. Cochins a specialty. Eggs and chicks for sale.

POULTRY.

SUNFLOWER POULTRY YARDS. — T. S. HAWLEY, Topeka, Kansas, breeder of PURE-BRED POULTRY.

Leading varieties.

JOHN C. SNYDER, Constant, Cowley Co., Kansas, D breeds PLYMOUTH ROCKS exclusively. No stock for sale. Eggs in season. Write for wants or send for circular, and mention this paper.

HOUDANS. — A few cockerels or pairs to space.

Pure blood. My fowls are from the noted "College Hill Poultry Farm" at Manhattan. Males \$1.50 pullets \$1. Eggs in their season. Mrs. G. D. Baker Holton, Kas.

HUREKA POULTRY YARDS.—L. E. Pixley, Eu-Li reka, Kas., breeder of Wyandottes, B. B. R. Games, P. Rocks, B. and W. Leghorns, Buff Cochins and Pek-Ducks. Eggs and birds in season. Write for what

EVERGREEN FRUIT FARM.—Leading varieties
Strawberry Plants, S. C. Brown Leghern Fowls,
Poland-China Swine. Send for prices. T. F. Sproul,
Frankfort, Kas.

N. R. NYE, Leavenworth, Kas., breeder of the lead-ing varieties of Land and Water Fowls. DARK BRAHMAS a specialty. Send for Circular.

MISCELLANEOUS.

 $\mathbf{P}^{\text{IG-EXTRACTOR} ext{--} ext{To ald animals in giving birth.}}$ Circulars free. \square Send for it to Prof. Wm. Dulin, Avoca, Iowa.

TOPEKA TRANSPORTATION CO. — Office, 517 Kansas Ave., Topeka, Kas. Telephone 179.

SEVERAL GOOD JACKS FOR SALE OR TRADE S—At my stables, Ogden, Riley Co., Kas. Corres-pondence, solicited. Theo. Welchselbaum.

F. H. ARMSTRONG, VETERINARY SURGEON.
Graduate of Ontario Veterinary College. All
surgical operations scientifically performed. Charges
reasonable. Office—214 6th Ave. W., Topeka, Kas.

S. A. SAWYER, Fine Stock Auctioneer, Manhattan. S. Riley Co., Kas. Have Coats' English, Short horn, Hereford, N. A. Galloway, American Aberdeen-Angus, Holstein-Friesian and A. J. C. C. H. R. Herd Books. Compiles catalogues.

MERINO PARK

SAM'L JEWETT & SON, Lawrence, Kas. Breeders of Improved Spanish Merino Sheep.



shown above, "high-flying" prices do not now

150 Registered Rams for sale

As shown below at "hard-pan knock-down" prices. Satisfaction guaranteed.



Take care of your Horses and Cattle by using Dr. S. P. Cregar's

STOOK CAKE & ANTI-WORM REMEDY,

a cathartic stimulant for Horses. Cattle and other Live Stock. This Stock Cake removes neorms, purifies the blood and reater, loosens the hide, action to kidneys, regulates the system and puts the animals in healthy, thriring condition. Also is a Preventive Against Pleuro-Pneumonia in Cuttle. Price 15 conte per cake. Dr. S. P. Cregar, 1464 Wabash Ave., Chicago.

PURE GERMAN CARP FOR SALE.

For stocking ponds.

Prices on application.

All sizes, from 2 to 10 inches.

J. J. MEASKR,

Hutchinson, Kansas.

Agricultural Books.

The following valuable books will be supplied to any of our readers by the publishers of the Kansas Farmer. Any one or more these standard books will be sent postage paid on receipt of the publisher's price, which named against each book. The books are bound in handsome cloth, excepting those indicated thus—(paper):

FARM AND GARDEN. Orchard.....Tobacco Culture: Full Practical Details.....

FRUITS AND FLOWERS. FRUITS AND FLOWERS.

Elilott's Hand-Book for Fruit-Growers.

Every Woman Her Own Flower Gardener.

Fuller's Grape Culturist.

Fuller's Grape Culturist.

Henderson's Practical Floricalture.

Parsons on the Rose.

HORSES.

HORSES.

Dadd's Modern Horse Doctor...

Jennings' Horse Training Made Easy...

Horse-Breeding (Sanders)...

Law's Veterinary Adviser.

Miles on the Horse's Foot...

Woodruff's Trotting Horse of America...

Youatt & Spooner on the Horse... CATTLE, EHEEP AND SWINE.

CATTLE, EHEEP AND SWIN
Allen's American Cattle,
Coburn's Swine Husbandry,
Dadd's American Cattle Doctor
Harris on the Pig.
Jennings' Cattle and Their Diseases,
Jennings' Sheep, Swine and Poultry
Randall's bhees Husbandry,
Stewart's Shepherd's Mauual.
The Breeds of Live Stock (Sanders),
Feeding Animals (Stewart).

MISCELLANEOUS.

Some Valuable Papers CLUBBED WITH KANSAS FARMER:

Address KANSAS FARMER CO., TOPEKA, KANSAS.

The Breeder's Gazette, price \$3.00—both......\$3.00
The Topeks Weekly Capital, price \$1.00—both..... 1.50

The Fanciers' Review, CHATHAM, N. Y.

A 16-page, 64-column poultry journal. Only 25 cents a year! The Fancier's paper! The Farmer's paper! Pithy and practical! Send for sample copy. Stamps taken.

Regular subscription price of the KANSAS FARMER is now \$1 a year, within reach of all.

Of the Representative and Best Business Firms of the Capital City of Kansas.

The KANSAS FARMER endorses the following business firms as worthy of the patronage of parties visiting the city or wishing to transact business by mail:

SURGICAL

J. C. McCLINTOCK, M. D., CONSULTING AND OPERATING SURGEON,

880 Kansas avenue, Topeka, Kas

HENRY W. ROBY, M. D., SURGEON

General Manager Kansas urgical Hos-pital Association.

OFFICE:-118 Sixth Avenue W., TOPEKA, KAS

A.W. KNOWLES & CO.

Hardware, Stoves, Pumps,

We also sell the St. Joseph Water Elevator and Purifying Pump. No. 114 East Sixth St., TOPEKA, KAS.

W.P. HALL

REAL ESTATE, LOAN, INSURANCE and COLLECTION Agent.

Correspondence solicited and information cheerfully given.

GEO. W. WATSON,

Real - Estate - Agent,

Southwest corner Sixth and Kansas Avenues, TOPEKA, KANSAS.

Improved Farms, City Property, Improved and Un-improved Lands in all parts of the State, on Long Time and Easy Payments.

Others making arrangements for new catalogues will do well to correspond with us for estimates. We probably have the large-t number of stock and trade cuts in the State, and will be pleased to send proofs of any certain line to parties who have work to be done. We make no charge for using these cuts in catalogue work.

DARLING & DOUGLASS,

Fine Job Printers, Topeka, Kansas.

TOPEKA STEAM DENTAL

ESTABLISHMENT.

No. 729 Kansas Ave., between 7th & 8th Sts.

SPECIAL CLUB OFFER

As may be seen in another column, we club with a limited number of papers at very low rates, which are quite popular, but the demand for a great metropolitan twelve-page Weekly, the

Kansas City Weekly Times,

is taking the lead: We send it with the KAN-SAS FARMER One year for only \$1.75.

WASHBURN :: COLLEGE

TOPEKA, - - KANSAS.



FOR BOTH SEXES. Collegiate and Prepara-tory courses,—Classical, Scientific, Literary; also an English course, Vocal and Instrumental Music, Draw-ing and Painting, Oratory and Elecution. Fourteen Detructors. Facilities excellent. Expenses reason able. Winter term opens January 4, 1888.

PETER MOVICAR, PRES

HEADQUARTERS FOR KANSAS.



The Best in Quality. Reasonable in Price. DEALS IN UNITED STATES, STATE AND MU-

We offer special inducements to those wishing to buy for cash or on easy payments.

Write to or call on

E. M. MILLER & CO., 511 Kansas Avenue, TOPEKA, KAS

CENTRAL SCHOOL SUPPLY AGENCY

TOPEKA, : : KANSAS,

SCHOOL FURNITURE, BLACKBOARDS, Etc.

and all school supplies at lowest rates.

SECOND-HAND BOOKS bought, sold and exchanged. 25 Send for circulars.

Designing and Draughting

LIVE STOCK, BUILDING, NURSERYMEN'S WORK A SPECIALTY.

Also cuts for newspaper advertising. Adless THOS. F. PARRY.

Topeka, Kansas.

Cach.

Paragents wanted in every county. Write or Sample Copy.

RED STAR AGENCY.

Money to loan on first-class securities. Fi-nancial connections with Eastern capitalists. Extensive acquaintance throughout Kansas. Choice Bargains in City, Farm, and Suburban Property.

If you wish to sell or buy real estate of any kind in any part of the county, this agency will be pleased to correspond with you.

W. F. FILE, Manager, 110 West Sixth St., Topeka, Kas.

P. I. BONEBRAKE, President. A. S. Johnson, Vice President.

EDWIN, KNOWLES, Cashier E. M. BONEBBAKE, Assistant Cashier

The Central National Bank,

NICIPAL BONDS.

DOES A GENERAL BANKING BUSINESS

DIRECTORS:

A. S. Johnson, J. F. Goddard, O. H. Manning, Geo. R. Prok, Thos. A. Osborn, W. A. Sells, H. P. Dillon, Edwin Knowles, P. I. Bonebrake.

The Western School Journal

It is the official organ of the State Superintendent, containing the monthly decisions of that office of the Attorney General, and the Supreme Court on all matters relating to

schools.

It prints and answers the Quarterly Examination Questions of the State Board of Edu-

cation.

Its official, editorial, contributed and selected matter make it indispensable to school officers and teachers. Persons expecting to teach should subscribe.

School officers are authorized to subscribe for their districts.

\$1.25 per year. Clubs of five or more, \$1

L. L. TURNER, R. M. CRANE, Cashier.

M. WADSWORTH,

Kansas National

The accounts of Individuals, Banks, Bankers, Merchants, Manufacturers, Firms and Incorporated Companies, solicited.
Collections promptly attended to and all facilities of the banking business extended to our customers.

It is our intention to serve patrons in the most liberal manner consistent with conservative banking.



The Singer

Noiseless, Light-Running, High Arm, Self-Setting Needle, Self-Threading Shuttle, Automatic Bobbin-Winder, Belt Switch, etc.

Sewing Machine Needles and supplies for all machines. Send for circular and AGENTS WANTED.

THE SINGER MF'G CO., 805 Kansas Ave., Topeka, Kas.

SMITH, BIGGS & CO - DEALERS IN -

Hides, Wool, Tallow, Furs, Etc.

Butchers' Tools and Supplies.

Correspondence solicited. Send for Shipping Tags.

Office, 228 Kansas Ave., TOPEKA

Chicago. Kansās and Nebraska Railway.

Rock Island Route. Most Direct, Safest, Best, and Most Convenient

Means of inter-communication betweet all points in the States of KA*SAS and NEBRASKA. This great system presents the most comprehen-sive grouping of Central Lines in the United States, touching all principal localities in KANSAS, NE-BRASKA, 1LLINOIS, IOWA, MISSOURI, MINNE-SOTA and DAKOTA.

The Chicago, Kansas & Nebraska Railway

IRE URICAGO, KARSAS & Nebraska Railway
Joins the GREAT ROCK ISLAND ROUTE at KANSAS CITY and ST. JOSEPH FOR CHICAGO, and
points EAST, and makes close connection with all
the leading Railway Lines for ST. LOUIS and points
EAST, SOUTH and SOUTHEAST; and with the
famous ALBERT LEA ROUTE to ST. PAUL, MINNEAPOLIS, and points in the NORTHWEST.
By means of its central position, the substantial
character of its construction, and its magnificent
Passenger Equipment, consisting of restful RECLINING CHAIR CARS, magnificent PULLMAN PALACE SLEEPING CARS, AND ELEGANT DAY
COACHES, THE CHICAGO, KANSAS AND NEBRASKA RAILWAY is enabled to offer superior
advantages to its patrons, and to lead all of its
competitors in time, security, comfort and accommodation.

Among the numerous Cities and Towns on

The Chicago, Kansas & Nebraska Railway,

Ine Chicago, Kansas & Nebraska Railway,

Wichita, St. Joseph, Kansas City, Olyde,
Wellington, Nelson, Ealeville, Clay Center,
Caldwell, Topeka, Abilene, Manhattan,
Canton, Holton, Salina, Alma,
McPherson, Horton Jo.,
Rutchinson, Sabetha, Solomo City, White City,
Rutchinson, Babetha, Fartie, Parmee City, Smith Centre, Marion,
Greensburg, Beatrice, Phillipsburg, Feabody,
Dedge City, Hebron, Norton, Fairbury

It is a line of modern construction, with the latest
and best improvements, and traverses the most important portions of the States of KANSAS and
NEBRASKA, where there are opportunities not
found elsewhere for the Farmer, the Merchanit, the
Mechanic, the Laborer, the Professional Man, and
all classes of business and industrial pursuits.
For tickets, maps, folders and other information,
apply to your nearest Ticket Agent, or to

C. W. FISHER.

JOHN SEBASTIAN,

C. W. FISHER, General Manager. JOHN SEBASTIAN, Gen. Tkt. & Pass. Agt.

W. D. MANN, Asst. Gen. Tkt. & Pass. Agt. TOPEKA, KANSAS

UNION PACIFIC R'Y.

"THE OVERLAND ROUTE." The Only Line Carrying the United States Overland Mail.

Commencing Sunday, December 4, 1887, baggage will be checked through from eastern points to Pacific Coast, and through sleepers run on all trains between Council Bluffs, Omaha, San Francisco and Los Angeles; also between Kansas City and Ogden on "THE OVERLAND FLYER," saving one day to all California and Oregon points, running from Missouri Miver to the Pacific Coast in seventy-one hours. Elegant Pullman Palace Carsleepers and modern day coaches on all through trains. Eating houses under supervision of the company and meals furnished by Pacific Hotel Company, unsurpassed. In complying with the wish of our patrons, night trains between Omaha, Council Bluffs and Kansas City have been changed to day trains. Chair cars to Beatrice free of charge. Third class passengers carried on regular through trains running free family sleepers.

To accommodate increased suburban business extra cars are attached to 6:30 a. m. and 5:55 p. m. trains between Omaha and South Omaha to carry packing house employes.

For further information address

J. S. TEBBETS,

General Passenger and Ticket Agent,
OMAHA, NEB. points to Pacific Coast, and through sleepers

LAST OPPORTUNITY!

CHEAP EXCURSIONS

\$72 from St. Louis, via Iron Mountain Route \$60 from Kansas City, via Missouri Pacific.

Tickets good six months, limited to sixty days for going passage, with stop-over privilege at pleasure within that limit east of Colton. Special Excursion trains leave St. Louis, via Iron Mountain Route, February 16th, and Kansas City, via Missouri Pacific Hailway, February 17th

All Coupon Offices in the United States and Canada will sell tickets to Los Angeles, San Diego and San Francisco for this Excursion.

Agricultural Matters.

THE ADVANTAGES OF FARM LIFE Read before the Farmers' Institute, at Oak Grange Hall, Shawnee county, January 20, 1888, by Mrs. M. E. Clark.

The tendencies to accurate and scientific investigations in regard to those things that are of interest and profit to us as a people, nowhere have a greater influence and are looked into and studied with deeper interest than is agriculture by the average farmer. By the last census it is made to appear that of the 17,392,099 of population engaged sary to health and peace of mind. in all kinds of industrial pursuits, 7,670,493 are engaged in agriculture. What a mighty influence such a vast number might have in making and in a measure controlling the laws of our land. Society has long been led by those who are not in sympathy with us. or at least who are from a class that have been educated and trained to lead and govern, that it seems almost impossible to break customs so long and firmly established. Yet the farmers of to-day look at the old order of things with disfavor, and are taking steps to bring about a change, let us hope for the better. Labor-saving machines, and improvements in all kinds of farm implements, have lightened the labor of the husbandman, and made that life which was once a drudgery more of a pleasure, giving us more time for sociability and recreation, and for the acquiring of that knowledge which is a necessity in any department of life, but much more so to us as farmers. Compare the lives of the laboring classes of our cities with our own daily lives. and which would you choose? Our time is our own, to use as we see fit, whether we use it wisely or the reverse Their time is not their own; at the sound of the whistle they must begin their daily toil. They live, work, eat and sleep on time. I do not claim that our lives passed on the farm take precedence over all other occupations, for we know clouds will arise, and we have many disappointments to meet and overcome; but I do assert that we have many advantages which other laboring classes have not. We point with pride to our own agricultural college, located at Manhattan, where our sons and daughters can with a limited expense receive a thorough, practical education, where they are taught innumerable applications of science to agriculture, which helps to elevate and throw a charm around this much abused though noble employment, and I think I can truthfully and honestly claim that it meets the needs of the agricultural class. Every farmer that gives this subject his earnest consideration cannot fail to see the great advantage to be derived from it. From the pioneers of this wonderful land of ours has sprung the noble men and women that have made our land bud and bloom and bear rich fruits, leveled the forest, turned our treeless prairies into fertile acres, and taught their sons and daughters self-reliance, personal independence, sturdy and true. From such homes and training has sprung the farmers of to-day. The progress they have made in the last century is an earnest of their endeavors for the future.

Those who till the soil should depend | have got me in trouble by largely on their own resources for the the FARMER, that I raised Mammoth needs of their families; they should clover and might have seed for sale. furnish their own bread, vegetables, If I had seed for sale the notice would meat, butter, fruits, and everything have been a valuable advertisement for that their farms will produce for the me; but as I have not, please allow me comfort of their families, making them- space to publicly answer numerous corselves almost independent of the neighboring cities or villages. Compare our postage, and the answers may be of pure, life-giving atmosphere with the general interest. murky, stifling atmosphere of our cities.

sweet country air, their lungs are filled with all the impurities arising from a crowded population; the coal dust and smoke that hang like a pall over their homes, pollutes the air they breathe. while we gather strength and renewed yitality with each fresh breath of air. Our friends of the cities know and appreciate all these advantages of ours, and as soon as they obtain a competence how quickly they avail themselves of homes in the country, where they can at least spend a portion of their time, and in doing so finding that comfort and ease which seems so neces-

Again, among the means and incentives to improvement enjoyed by farming communities we cannot overlook the associations and annual exhibitions. They are not new, but they prove none the less useful. Their great advantage consists in their adaptation to bring with timothy, and therefore, I think is agricultural improvement home to all the people. Then we have our agricultural papers and periodicals which leave little to be desired in that line, unless it might be to place one in the hands of every farmer, for they are devoted exclusively to topics pertaining to farming, gardening, horticulture, in fact, everything that is of interest to us as a class. In our Eastern States the farmers co-operate in various ways to their interest. Last year in eastern Ohio, quite a successful effort was made by running a fruit evaporator. It is needless to go into actual figures; suffice it to say their success more than met their expectations. I might enumerate various other enterprises of like result.

Much has been said in regard to our sons leaving the farms for a precarious living elsewhere, attributing it to the drudgery and lack of attraction in theirsurroundings. But I look at it in a different light. Our children are endowed with reasoning faculties as are we; their likes and dislikes are as real as our own. If my son prefers a knowledge of any other vocation than farming and ardently desires to follow that particular calling, it would be the height of folly for me to oppose his wishes and insist on his making a farmer of himself when his heart is not in it. To excel in any calling we must put our hearts in the work. Farming needs good, practical men and women. with their faculty of observations keenly alive to note and apply and profit by the experiences of others. Now the winter is upon us and our time is well spent in recreation and social gatherings of various kinds. The Grange offers to all farmers a double advantage, inasmuch as we can and do enjoy both social and intellectual benefits to be derived through interchange of thoughts from the brethren and sisters, proving alike instructive and entertaining.

How we love and delight in nature, and contemplate her works; it enters into our lives and makes our labors seem but a part of one grand drama which is under the control and guidance of one who when here on earth, Himself set us the example and taught us the necessity and dignity of labor, thereby fulfilling a divine command.

About Mammoth Clover.

EDITOR KANSAS FARMER:-You stating in respondents. It will save me time and

While we drink deep draughts of our 1887. The extreme drouth and hot Diverse theories have always existed, tural interests of the country.

'86, nearly destroying the old crop; but the seed shattered off in harvesting the crop of that season made a beautiful stand last spring, and afforded an excellent pasture the whole season, going into winter quarters in fine shape. I anticipate a good seed crop the coming season.

Now to answer a few questions of correspondents as to the character and subjects connected with our industry habits of Mammoth clover. Like common red clover, it is a biennial, but from its habit of heavy seeding, I believe on rich land it will prove eternal, the old plants being replaced by new ones from the seed. It only differs from common red clover by growing larger and maturing later, starts equally early in the spring. From my acquaitance with it I consider it superior as a fertilizer, and as a pasture. It matures preferable for mixing with that standard grass for hay. I have never had any trouble in getting a good stand. Have always made it a point to buy seed direct of the producer, (several times sending nine hundred miles for it) unless I had of my own raising. It is very important to sow fresh, pure seed. may know at least once in twelve I would not pay half price for seed I had any misgivings about.

Sow at the rate of one bushel to six acres. Don't sow with grain. Mow with machine when weeds get to be eighteen inches or two feet high, and repeat the operation if necessary again during the season. Follow these directions and you will succeed, and you need not worry about it.

EDWIN SNYDER. Oskaloosa, Jefferson Co., Kans.

KANSAS AGRICULTURE.

Address delivered by Hon. A. W. Smith, of McPherson county, before the State Board of Agriculture, January 12, 1888.

Agriculture, the foundation of all wealth and happiness, was instituted by God, when he proclaimed to Adam, 'In the sweat of thy face shalt thou eat bread." The first record we have of its application is when the two brothers brought the products of their industry -one from the flock—as an offering to the Lord. From that day to the present, agriculture has been the foundation upon which all other industries

Indeed, it has been truthfully said, that no other industry could succeed, even if it could exist, if it were not for the efforts and the success of the humble tiller of the soil. Hence the agricultural industry becomes the foundation of all wealth, prosperity, luxury and happiness. By it great empires are subdued; cities are built; highways are constructed, and the waste places of earth are made to blossom as the rose.

Every human being, whether he be of humble birth, or of royal blood; whether his abode be in the sod house upon the plain, or in the gorgeous mansion upon the hillside, is dependent upon, and recipient of, its bounties.

The atmosphere in which we Kansans live is redolent with boom, boom, boom. We hear the voice of the modest real estate agent echo and re-echo this magic word. This man, or that fellow is designated as a great boomer. But the man that tickles mother earth with a hoe and causes her to laugh a the age

Great as has been the advancement in the modes and methods of agriculture; grand as have been our achievements, there is still a vast field to be

weather of the late summer and fall of and they seem to multiply as the years

go by. To my mind the great want of the farmer is a higher practical, agricultural and general education. Coming to this State with very limited means as many of us did; and ambitious to conquer the soil and procure a home and a competency, we have not taken time to think. We must investigate and affecting our material prosperity. Hitherto we have allowed gentlemen of other professions, and other callings to do our thinking for us to too great an extent. Doubtless their advice was well intended, but we can not get away from the fact that in many instances we have paid dearly for it. The farmer should not only have a thorough knowledge of his profession, but all the details of the farm should be looked after upon strict business principles. His methods may not necessarily have all of the red tape paraphernalia of a pension department under the general di-

Perhaps there have been more shipwrecks along the coast of our vocation through neglect or ignorance of the details of the farm, than from any other cause. Valuable machinery, through neglect, is allowed to stand out in the elements the year round. Or perhaps the stock is gathered into a lot in the fall with nothing but a three-wire fence between them and the north pole, when a little labor with a few poles and some straw or hay would make a good covering for the machinery, and the same commodities (which are within reach of the humblest) properly arranged will make a good protection for the stock.

rection of the high-bred prince of ve-

toes; but every farmer should have a

ledger in which the business transac-

tions of the farm are entered, that he

months how he stands with the balance

of mankind.

In this illustration I have only pointed out a few of the extreme cases of negout a rew of the extreme cases of neglect, which, if persisted in, lowers the standard of our calling, and aided by the persistent and ever present 2 per cent. man, leads to bankruptcy and to ruin. Knowledge, care, industry and economy are the elements of success

and happiness.

The farmer should have a knowledge of the elements of his soil and its adaptof the elements of his soil and its adaptability to the growth of the desired product. Care should be taken in the preparation of the grounds, and the crop should be cultivated with great industry, and harvested with economy. Do the right thing, in the right way, and at the right time, should be the motto of every farmer. Bearing in mind at all times that it is not what we raise, but what we have to sell, that furnishes us our revenue.

The farmer should not only have a good knowledge of his own business but he should invade the domain of political economy. He should study the principles of government; he should familiarize himself with all the great economic questions of the day, and their effect and bearing upon his industry. In short, he should be the highest type of an American citizen; ambitious to promote his own interests. ambitious to promote his own interests, and willing to help protect other indus-

Let us remember that we cannot get along without the machine; we are not independent of the man of genius. Our prosperity and development depend largely upon the inventor. The world advances by the assistance of all laborates. ers. The inventor does as much for agriculture as the man who holds the plow. I am a believer in the brother-hood of all laborers; and I am a firm believer in the protection of all American products and American labor.

The importance of the agricultural interest entitles it to the consideration of the wisest statesmanship; to the fostering care and protection of the State and general government against the unjust encroachments and exactions of space to publicly answer numerous correspondents. It will save me time and postage, and the answers may be of general interest.

I raised no Mammouth clover seed in I raised no Mammouth clover seed in our industry are still open questions.

Diverse theories bath a vast held to be unjust encroachments and exactions of greed and avarice. I hope the day is not far distant when our profession will be honored by having a representative farmer in Washington, with the full rank and power of a cabinet minister, to look after and advance the agriculture of the country.

The Stock Interest.

THOROUGHBRED STOCK SALES.

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

MARCH 14. — Sweitser & Odell, Holsteins, at Kansas City, Mo.

IMPROVED STOCK ON THE FARM. Prepared by Hon. J. B. McAfee, and read before the Farmers' Institute at Oak Grange Hall, January 20, 1888.

I cannot but wish you had assigned a subject of such importance to some one of more time and experience than myself. I do not suppose you wish me to relate what I have read, or what I have heard, but the results of my own efforts in that direction. I suppose it is your desire to make this an experience meet-

For over twenty years I had consider

able experience with common stock, but not with improved stock. In 1880, when I concluded to devote my time and limited means to the stock business, I fortunately fell into the hands of Major Sims, who spent considerable time in trying to convince me of the importance of having good stock to begin with. Laying aside my own judgment and yielding to his, I paid \$100 for a good Short-horn cow, and the same day I bought elsewhere three cows for the same sum. The Short-horn cow's calf, when a yearling, sold for \$125. The other calves at the same age sold for \$18 each. If it cost \$15 each to keep the common cows it left but \$3 gain. If it cost \$25 per year to keep the good cow there was still \$100 gain, or as much gain from one good cow as from thirty-three common ones. I could see no good reason for keeping so large a number to secure the same results. I consequently got rid of my common stock as fast as it was convenient to replace them with good. In five years the calves from the good cow sold for \$505. My next purchase was two fine heifers, which cost me \$520. The first two or three calves from each cow were heifers. From these two cows and their offspring in five years I sold over \$2,000 worth of stock and still have the two cows in the prime of life and worth at least 70 per cent. of their original cost. The one has a calf with her now nine and one-third months old that weighs 845 pounds. It took the blue ribbon at the State fair last fall for the best bull calf under one year old. It had to compete against some of the finest stock from Iowa, Missouri, Nebraska, Illinois, and Kansas. The other cow has a heifer calf eleven months old, equally good, and a bull calf a week old at her heels. Had I bought a half dozen good cows at the start instead of buying one or two each year my returns would have been double as great as shown by the following figures: I paid in full to January 1, 1888, for Short-horn cattle, \$4,635, and have sold \$8,891, and have still on hand at a low estimate \$3,500 worth, making in all \$12,391, or \$7,756 for feed and labor, leaving a net profit after allowing for feed and care of about \$5,000. The reason the whole herd does not show such good results as the first three referred to is because I bought soon after, realizing but a small profit from them.

or twelve cows, or even a smaller num- ingly arouse, stare intently, twist her in refrigerator cars, and shipped to ber, and one good bull, if properly tail, turn partly around, something like handled and well cared for, will return a horse with the colic; then with mouth a net gain annually of from \$1,000 to wide open would start again as if bent lers. \$1,200. In 1882 I raised eight steers—on killing the first object that she common stock-kept them two years, might come in contact with. After and after full-feeding for about three making a few such passes she left the lous regarding the outcome of their the envy of the light horse breeders. months sold them at \$42 each. The yard and ran nearly half a mile and speculation I would say: Hold on, and

the heifer calves about \$150 each, some a little while she got up and walked off. selling for over \$200.

the few good ones as from the greater on the good stock, whilst on the common usually less than the value of food and care given them. The time was when common stock could be turned loose on the prairie to care for themselves, and after three or four years they and their increase rounded up and a handsome profit result from the investment. Those days are past. The range is gone. Land has become valuable, and to get any reasonable return from it you must put on it the best of stock and give it the best of care. Much greater net gain from five head well cared for than from fifty head left to care for themselves.

My experience in raising horses has been mostly with high-grade mares and full-blood horses. At this time I have four very fine high-grade spring colts, and one full-blood filly that will sell for more than the other four. She was seven months old January 5, 1888, and weighed 805 pounds. I will sell the grade stock as fast as I can do so and stock up with full-blood Clydesdale mares. Will hereafter pursue the same course with horses that I have heretofore done with cattle.

In conclusion let me ask-please don't compare the results of my labor with stock-well sheltered and well cared for, with many others who have started with equally good stock, but sheltered them behind barbed wire fences, in nothing but stock fields, and then doubt the results.

A Case for Dr. Holcombe.

EDITOR KANSAS FARMER:-I just lost a fine filly, coming four in the spring, whose case I wish to refer to the State Veterinery through your columns. Six weeks ago, while trying to lead her into the stable she got stubborn and pulled back, striking her head sidewise quite hard against the doorframe, which in a few moments raised a bunch nearly as large as a hen's egg above the left eye. The lump never entirely disappeared, but I did not notice any evil results from it. Her disposition was naturally vicious and domineering to other horses. A few days ago we noticed her a little ill-natured, threatening to kick several times while we were passing behind her. The next morning, not noticing anything wrong, we turned her out with the other colts and cattle as usual into the timothy, clover and stalk pasture. We soon noticed her kicking and squealing rather unusually loud, but it being very cold we attributed it to no other cause. She remained in the field until 4 p. m., when she come into the yard with the other stock, and she soon showed signs of being desperate-kicking, squealing, and biting at any object, person, or animal that chanced to come in her way; then after making a dart, she would walk will tell you that the animal killed in the Two thousand dollars invested in ten | Then, after a few minutes would seem-

The third time that she thus lay down It a farmer has but \$1,000 to invest in she was very close to the wire fence stock, much better put it in five or six, and got her head under the lower wire, or even a less number of good animals, and in getting up crawled through unthan into forty or fifty common cattle. der, she then traveled about another His gross returns will be as much from half mile, when a neighbor, upon seeing her, went out and took her by the number of common stock, and his net halter, thinking to lead her into his returns will be 50 per cent. and upwards stable; meanwhile she bit his arm. He let go the rope and she went off some afteen or twenty rods, then fell headlong and in a few minutes expired. In that position she lay all night. The next morning quite a quantity of creamcolored and bloody corruption had run out of her left nostril. There was quite a disagreeable odor about her head. Upon opening her head we found her nasal cavities full of clotted blood clear up to the brain, but the brain seemed quite clear to all appearance. And upon opening her body I found large quantities of blood about her liver, heart and lungs, but none among the entrails. The flesh was clear as of a butchered beef. I forgot to state that afterwards, while looking over the field I noticed a great many places where she had pawed the snow in a heap by turning short around all the time while pawing. Also, that she had pawed more than usual in the stable during the night. Although she pawed some every night.

I have come to the conclusion that the cause of her death was mad staggers. Some think it a case of hydrophobia.

Now, what is your opinion? J. FULCOMER. Belleville, Republic Co., Kas.

Get Rid of the Middlemen.

A friend sends a printed report of an interview with Col. W. F. Cody-"Buffalo Bill"-in England. We make a few extracts. They are sensible.

"In Chicago there exists a powerful ring of cattle-trade monopolists. They are known as the syndicate of cattle commissioners. They keep themselves well informed as to all movements of the producers; they know exactly how and when certain lots of cattle must be disposed of; they then proceed to rig the market and the ranchmen find themselves at the mercy of these men. The producer cannot afford to hold his stock, and, moreover, he has no means of doing so. His cattle are grass-fed and cannot be corn-fed; therefore the producer must sell in a very few days or lose in weight. Such a ring can and should be broken. The producers are strong and powerful enough to assert themselves, and they will undoubtedly do so by combining and by killing their beasts at home. There is one very strong point I would like to make in reference to this. Look at it from the sanitary point of view. Take a steer on its native heath, full of life and health, in good condition and pure in blood; again, take a steer which has made a long journey, either on the road or by rail, see the weary-worn look, the feverish eye and tongue, the blood heated, and the beast half maddened by excitement. Your common sense slowly a few steps, then stop in a sort healthy state will make better and more quite a number at different public sales of a stupor, like a very sick horse, drop- healthy beef than the feverish, hunted ping her head below the level of her steer as he reaches the slaughter-houses becoming educated up to the heavy shoulders, with eyes partly closed. in Chicago. Let the animals be slaugh- draft horse. Twenty years ago almost tered on the ranches, packed cleanly their destinaiton without being mauled grades they would be useless. Now we about by the Chicago commission hand-

interested in ranches and are pretty anx-

price it has been you will have the finest business in the world, because they are going to have a market right at home. The cattle in the Indian Territory have been disposed of or located elsewhere. Texas beef, in the face of the superior beef produced on the Northern ranches, has depreciated in value. The Northerner is going to be looked to for beef hereafter. The man who owns a Northern ranch is a producer, and I see a prospect of the producer controlling the market instead of the middlemen. He will soon not be willing to take any price that may be offered him by the ring. I would say to the cattlemen that they are the proper persons to control the market, and not the middlemen who sell on commission. The producers are strong enough to break that ring, and they will do it."

The Hair of Horses' Legs.

The importance attached to the hair on the legs of draft horses in Great Britain is a constant source of surprise to the average American. Here the question of absence or presence of hair and its quality on the legs of Shire or Clydesdale horses is looked upon as of importance only as it tends to prove or disprove the purity of the blood of the animal. And it is undoubtedly true that if the Shire horses, and Clydesdales as well, could be bred in this country or England with legs as destitute of hair as are some other breeds, it would add greatly to their popularity in America. It is rather amusing to see a recent issue of the Norwich (Eng.) Mercury discourse gravely on the possibilities of producing good Shire horses outside of the Fen districts, and alleging as the principal point in the argument that it is doubtful if sufficient feather on the legs can be produced elsewhere! Agriculture, a paper published in London, combats the idea of the Norwich Mercury that good Shire horses cannot be bred outside of the Fen districts, but proceeds to argue that the hair can be grown just as well elsewhere as on the flat lowlands of the fens. Hair, hair, hair! appears to be everything with our British cousins in judging draft horses. They argue that the presence of an abundance of feathers on the legs indicate hardness and firmness of texture of the bone; but how is it about the Thoroughbred? These horses are the cleanest-limbed specimens of the equine race in the world. No animal of the horse kind has a bone of finer texture; and yet no animal of the horse kind is so characterized by the absence of long hair on the legs. This ought to settle the question of hair as an indication of the quality of the bone once for all. Here, upon our muddy country roads, with our frequent sharp and sudden freezes, the long hair on the legs of the Clydesdales and Shires is generally regarded as a nuisance. These breeds are popular here; but this popularity is independent of and in spite-of the long hair upon the legs which characterize these breeds, and, as before remarked, they would doubtless be even more popular than they now are if the hair could be bred off.—Breeder's Gazette.

American Draft Horse Progress.

It is remarkable how rapidly we are everybody then said the imported draft horses were too big, and as for the can't get the stallions large enough for breeding, and the grades are best ap-"To that large body of men who are preciated by their large size for the city streets, and sell for prices that awaken

The city markets want all our high-Short-horn bull calves the same year as stopped and lay down as if to roll, but within three years it will bring you out. grades and are willing to pay for them. yearlings averaged about \$125 each, and I think never rolled over. After lying Although beef will not be at the same The price is a secondary consideration when they can find the extra heavy highgrades. The demand for them is increasing faster than the supply. As the city traffic increases, the merchant desires to increase the size of his wagon and horse as well. The wagonmakers are making heavier wagons, the harness-makers make heavier harness, and one big heavy horse does the work of two horses of twenty years ago.

Our farmers, too, are using their fine draft mares to work to remarkable advantage, and we will in a few years more require a team of full-blood drafts on the farm in America, as they have for ages on the farms of Europe. What would the English or French farmers think of trying to plow with a pair of our little American scrubs.

Many jumped at the conclusion that the big draft horses could not trot or travel on the hard roads without being all stove up, yet we have the practical example of 12,000 full-blood draft horses on the stone-paved streets of Paris, driven in a sweeping trot all day to those immense double-deck omnibuses, as only a Frenchman can drive, and these horses have an average life of over six years of this work; many of them twice that long.

American teamsters and American farmers are fast progressing with this heavy horse interest, and we will only stop when we get our city teams well supplied with the best high-grades as heavy as the full-bloods of Europe, and our farms well stocked with the fullbloods and high-grades to raise these popular and profitable big horses.

The draft horse enthusiasm has firmly taken hold in our Western States. Our importations of draft stallions are increasing every year, and the demand grows year by year, and the great draft horse interest is rapidly bringing wealth and prosperity to our country and gives us the world for our market as far as we can get the European size with the American style, which opens up to our American horse breeders such a bright future.—Bloomington (Ill.) Pantagraph.

A Ruined Life

is often the result of wasted opportunities, or failure to take advantage of the good chances offered. Those who take hold of our work, make \$1 an hour and upwards. We start you free, and put you on the highway to fortune. Both sexes, all ages. No special ability or training required. You can live at home and do the work. After you know all, should you not conclude to take hold, why, no harm is done. Those who are enterprising will learn all, by addressing Stinson & Co., Portland, Maine.

Forty-three Hours and Fifty-five Minutes. The above is the time made between Kansas City and New York by the Wabash Western railway, the inaugurator of fast passenger trains from Kansas City East.

The New York and St. Louis limited train, leaving Kansas City at 9:45 a. m. via Wabash Western railway, is still the only fast train to New York.

The so-called fast trains of other lines do not make the time of the Wabash Western by several hours.

Are You Going South?

If so, it is of great importance to you to be fully informed as to the cheapest, most direct and most pleasant route. You will wish to purchase your ticket via the route that will subject you to no delays, and by which through trains are run. Before you start, you should provide yourself with a map and time table of the Gulf Route (Kansas City, Ft. Scott & Gulf R. R.), the only direct route from and via Kansas City to all points in Eastern and Southern Kansas, Southwest Missouri, and Texas. Practically the only route from the West to all Southern cities. Entire trains with Pullman Palace Sleeping Cars, and Free Reclining Chair Cars, Kansas City to Memphis; through Sleeping Car, Kansas City to New Orleans. This is the direct route, and many miles the shortest line to Little Rock, Hot Springs, Eureka Springs, Fort Smith, Van Buren, Fayetteville, and all points in Arkansas. Send for a copy of our "Missouri and Kansas Farmer," an S-page illustrated paper, containing full and reliable information in relation to the great States of Missouri and Kansas. Issued monthly and mailed free.

Address,

G. P. & T. A., Kansas City. and most pleasant route. You will wish to

In the Dairy.

BUTTER-MAKING ON THE PLAINS

The McGrew ranch is a butter factory. This seems odd to those who have formed the impression that the ranches of Arizona are the homes of cowboys, and the only time when the cattle of the ranch are assembled is at the annual "round up." There are exceptions to this rule of growing cattle in a wild sort of a way, where the herds feed first upon one area and then move on to another, passing through the grassy valleys like a locust plague, leaving nothing behind but a seemingly barren desert.

The location and water facilities of the McGrew ranch were pointed out in a previous article, and it only need be here repeated that the well-watered gulches of a secluded mountain range, with the grassy approaches to the same, furnish a continuous supply of forage for the herd located here. The roving herds would gladly come in and share this choice feed, but they are excluded by the absence of any water in this vicinity not under the control of the owner of the ranch. A water right is of equal value with a patent from the government for all the land that depends upon such a water supply.

The buildings at the ranch consist of a small house, twelve by tweaty-four feet, a separate kitchen, a milk-house, a lean-to shed, a small horse stable, and largest and most conspicuous of all, the corral. The house is of pine lumber brought here at a cost of seven cents per foot. Lumber is high in this timberless land and houses are small for more than one reason. People can live out-of-doors the year round, and a house is more for the name of the thing than for many of the conveniences of ranch life. The house is divided into two equal-sized rooms. The front room is the sitting room, reception room and parlor combined, and an extremely cozy place withal. The wall is neatly papered, the labor of putting it on being done by the mistress of the house. Paper-hangers in Southern Arizona are as scarce as the buffalo on the plains, but not for the same reasons. The second half of the house is the sleeping apartment, which is arranged with all of the needed conveniences for living in this warm climate. Small as the house may seem to the reader, it is large enough to make two people a comfortable home and furnish room for two visitors over night, as the writer and his wife can testify. The reader must remember that the meals are "taken out;" that is, the kitchen and diningroom with its lean-to shed and storeroom are apart from the house, and nearly equal to it in size. In this way any of the odors arising from cooking food are not filling the house two or three times a day.

But the building that most interested me and the one that seemed the greater surprise in this far-away land was the milk room. This is not built of lumber as are the main house and dining apartment, but is constructed of adobe. It is, in short, a mud house, but one of the neatest of its kind I have seen. It is about twenty feet square and fully ten feet high, with a flat roof of boards. This roof is double, that is, has an air space of nearly two feet between the two roofs. This is found necessary to prevent the room from getting heated above the desired temperature during the long cloudless days of summer. The adobe earth for the construction of the building was found close at hand. This stiff clay is wetted up with water until it is thick mud, and after stirring in the necessary amount of same way. The cream was raised by the building was found close at kind ever known.

This powder never varies. A marvel of purity, strength and wholesomeness. More economical than the ordinary kinds, and cannot be sold in competition with the multitude of low-test, short-weight alum or phosphate powders. Sold only in cans. ROYAL BARING POWDER CO., 106 Wall street, New York. water until it is thick mud, and after these samples. All were made in the

inches wide, a foot long and three inches deep. These bricks are dried in the sun, and are soon ready to be laid into the wall. Some walls are constructed of a single brick in thickness, but the better adobes, like the one under discussion, are at least two bricks in thickness with a filling of clay and tie bricks between. Such a wall will stand for centuries in a climate where the rains are few and the frosts are comparatively trifling. The corners are the most exposed, and sometimes are knocked off or worn away to a curve by the rains. The portion of the wall that suffers most is from the earth's surface to a height of two feet.

Within the milk house are shelves along one whole side for holding the large pans of milk. The opposite side of the room is occupied with a large churn, and one of the latest improved butter-workers. A stove stands in the center during the colder part of the year, in which a slow live-oak fire is kept burning for heating the room to the desired temperature.

At one side of the adobe creamery is a lean-to shed, also made of clay bricks, in which the herdsman makes his headquarters. It also contains the various saddles, lassoes and other paraphernalia for herdsmen. Close by is the corral in which the cows are driven to be milked. The time when we visited the ranch was not the best for grazing, but a fresh cow is frequently brought in even in February. The young animal may be born three or more miles away and far up in one of the mountain gulches, so that it is quite a task upon both the strength and the patience for the herdsman to bring the new accession home. By having the time of increase extended, the ranchman is able to have a more even supply of milk throughout the year. This is quite necessary, because his market is a local one. All the butter he can make is sold in Tombstone, a small city twenty-seven miles away in the valley and within sight from any part of the elevated ranch.

Mr. McGrew told me that he found ready customers for all the butter he could make at fifty cents per pound the whole year through. His reputation is already so good that he could dispose of much more than he can produce at the same price. This seems like a good price, but a man who is willing to risk his all, life not excepted, among cowardly, treacherous Indians, is worthy of a good price. For weeks and even menths the housewife was obliged to live in Tombstone for the additional safety the city gave from the Apaches, then upon their war-path, while Mr. McGrew and a force of armed men carried on the operations of butter-making at the ranch by day, and slept on their Winchesters by night. But thanks to the wise policy of Gen. Miles, the hostile Indians are now all removed and peace reigns among the mountain fastnesses which for years echoed with the deadly musket fired from some safe hiding place.—Country Gentleman.

Cooley System.

Prof. L. B. Arnold, at a recent meeting of the New York Dairymen's Association, said:

"Previous to the holding of the Bay State Fair in Boston last fall, no public exhibit of butter had ever been marked as perfect by its judges.

"At that fair one sample was so marked and three more were placed in that rank at the dairy fair in New York last spring.

"These are the only instances of the

dried grass, it is thrown into moulds six intense refrigeration, the milk and sweet cream kept excluded from the air, and so cold as to prevent any advance towards souring or ripening until enough was obtained for a churning. It was then warmed to the churning temperature and kept frequently and thoroughly stirred till acidity was apparent."

> Returns from seven co-operative creameries in Connecticut, for eleven months of 1887, show the prices of their butter to have ranged from 221 to 251 cents a pound-amounts realized by the farmers. In every case the skimmed milk was left on the farm, and the amounts given are the net prices actually paid to the farmers for the cream alone, after deducting all expenses, including interest on the capital and provision for a sinking fund.

> > One Fact.

Is worth a column of rhetoric, said an American statesman. It is a fact, established by the testimony of thousands of people, that Hood's Sarsaparilla does cure scrofula, salt rheum, and other diseases or affections arising from impure state or low condition of the blood. It also overcomes that tired feeling, creates a good appetite, and gives strength to every part of the system. Try it.

Early maturity, early training and early pushing have found early graves for some of the best-bred and most promising horses in this country.

Sell the culls if you have more horses than you want to winter over. They will net bring in quite so much money, but you will have better teams in the spring.



NOTHING IS KNOWN TO SCIENCE AT all comparable to the CUTICURA REMEDIES in their marvelous properties of cleansing, purifying and beautifying the skin and in curing torating, disfiguring, itching, scaly and pimply diseases of the skin, scalp and blood, with loss of hair. CUTICURA, the great Skin Cure, and CUTICURA SOAP, an exquisite Skin Beautifier, prepared from it, externally, and CUTICURA RESOLVENT, the new Blood Purifier, internally, cure every form of skin and blood disease, from pimples to scrotula.

Sold everywhere. Price, CUTICURA, 50c.; RESOLVENT, \$1; SOAP, 25c. Prepared by the POTTER DRUGANT, 61; SOAP, 25c. Prepared by the POTTER DRUGANT, 51; SOAP, 25c. Prepared by the POTTER DRUGANT SENDICAL CO., BOSTON, Mass.

Pimples, blackheads, chapped and oily skin prevented by Cuticura Soap.

Dull Aches, Pains, and Weaknesses in stantly relieved by the CUTICURA ANTI-PAIN PLASTER, the only pain-killing plaster. 25c.



Correspondence.

About Correspondents.

EDITOR KANSAS FARMER: - Looking over my files of the KANSAS FARMER, during the past week, I noticed the following names among the list that contributed to the FARMER in 1875; A. G. Chase, a former editor of the FARMER; James Hanway, whose name at that time, appeared more frequent than any other correspondent, and I may add, whose articles were generally well written and readable. I suppose most every reader forms some kind of an idea in their imagination of the author's appear ance, and if a farmer, how the farm home looks, it's surroundings, etc.; at least, this is the case with myself. I had pictured out in my mind from what I had read in Judge Hanway's articles on farm topics, etc., about the author, his personal appear ance, how his farm home was situated, and all about it. So when W. W. Cone, a special corespondent of the FARMER, was at my place, among other special inquiries was one about Jadge Hanway. Mr. Cone gave a description of his personal appearance and of his farm. He said: "between the public road and his house he had a hog lot." This is not written with any intention of casting a reflection whatever on Mr. Hanway, but simply to illustrate the old adage of the difference between "Preaching and

A few of the following still write for the FARMER: Wm. Plaskett, Samuel Sinnett, C. W. Johnson, W. W. Tipton, F. D. Coburn, U. Cameron, R. K. Slosson, Prof. E. M. Shelton, B. C. Driscoll, Prof. Hay, F. Wellhouse, H. C. St. Clair, Prof. F. H. Snow, John D. Knox. The foregoing list of correspondents and the articles on the subjects they handled, will compare favorably with the same in any other agricultural journal I am acquainted with.

In this connection let me say, the Home Circle then, as it is now, was an interesting feature of the FARMER. The present corps of correspondents of the KANSAS FARMER, including the Home Circle, for home talent and non-professional writers, is not excelled by any other similar publication. During twelve consecutive years, seldom missing a number, I have read the FARMER, and can truly say the experience of the local correspondents has been of great benefit to me. Through all these years I have read their communications with increasing interest.

I do not wish to criticize any one, but why not sign your real name and postoffice? However, if you should happen to be a lawyer, preacher, or doctor, or of any other profession, there is no absolute necessity for adding an abbreviation to your name, such as John Smith, "D. D." or "M. D.," but simply "John Smith" will answer all purposes, and save the typesetter that much unnecessary labor, and deprive the editor of FARMER the success it richly deserves, its editors all the happiness earth affords, and when your editorial labors are ended and have answered the last call for "more copy," upon the presentation of your credentials, be accorded a pleasant interview with the Mster above. May you, both ladies and gentlemen, who contribute to the columns of the FARMER-may you live long, and may your shadow and your articles never grow less. G. W. BAILEY.

Wellington, Kansas.

From Russell County.

EDITOR KANSAS FARMER:-Having been a resident of this county for eight years, have had a chance to note many things of interest, both by experience and observation. When I landed here from the east, 1 found many things very different from that to which I had been used. The country was ery little land in cultivation, and most of the rest was covered with buffalo grass. Most of the government land was held by a floating population, always ready to sell out and curse the country. We were twenty miles from the nearest railroad station; many of the small streams were dry the greater part of the year, and many of the settlers had to haul water, in some instances, as far as three miles; the seasons were adverse to agriculture and horticulture. But now the tables are turned, the country is settled up, nearly all the government land

railroad lands are sold. There is a large area of land in cultivation and thousands of acres fenced and used for grazing. The blue-stem grass is fast taking the place of the buffalo grass. We have better distribution of the rain and consequently better crops (the past season excepted), but reports show we are not alone in failures. The country is now filled with those who intend to stay and make for themselves homes. We have a railroad and telegraph line in our midst, viz: the S. L. & W. and the A. T. & S. F. have almost graded so near, that when finished, we will be in reach of two lines and two, of four stations, in one day. All the streams run the year round and I do not know of a settler who has to haul water. For the past three or four years horticulture has been pushed forward very rapidly by a majority of those who own land. There are a great many young, thrifty, growing orchards and groves of artificial timber, and the country begins to look and be like home. This is a good place to raise small fruits: those who have tried have all they want to use, and some to spare. There was a bountiful crop of peaches least season. Young timber, when treated decently, makes a wonderful growth on all kinds of land. I have a small grove of five years, growing from seed and seedlings set 8x8, which almost shades the entire ground; have nineteen kinds of forest trees all growing and doing well

A. WINCHESTER, Bayne, Russell Co., Kansas.

Saw-Logs on Upland Prairie.

EDITOR KANSAS FAMRER:-Among the papers we wont to prize as old-stand-bys, and not to be cast aside, are the American Agriculturist, Rural New Yorker, and the Prairie Farmer, each of which has a special value peculiarly its own, giving points and hints that we should be sorry to be deprived of. But to the tiller of the Kansas soil, the Kansas Farmer is of far more value than all of these put together. However well these may be adapted to their several localities and mode of culture, they in a great measure fail to reach the wants of the Kansas farmer. While our home jour-nal as compared with these is but plain and unpretentious, we esteem the honest, homespun KANSAS FARMER, for its plain spoken practical common sense in dealing with all matters and subjects pertaining directly to Kansas and, Kansas agriculture in particular. The practical letters, essays, and more formal addresses by the practical farmers, stock-raisers and horticulrurists, published from week to week in its columns, are invaluable.

Up to the present, the stock in this region is doing exceptionally well, considering the fact that we have little or no grain to give them. The late fall pasture was the best we have known for thirty years in Kansas, taking all stock into the winter in very fine condition. The season, though unusually cold one broad Smile. Wishing the KANSAS for a time, has been on the whole, rather favorable to stock on account of there belayout little rain or sleet. We were favored especially, in having excellent tame grass pastures of clover, orchard grass, timothy and blue-grass, to carry the stock up to the last of December, since which time we have been feeding tame and prairie hay, in alternation. The only difficulty met with is a scarcity of water on account of the ponds, streams, and even springs and shallow wells freezing or running low. Our wind-breaks planted around and across the farm and stock yards and feed lots, serve to protect the stock in a great measure from all storms and blizzards, coming from whatever quarter they may. This matter of timber-beits, we find of no small importance in protecting the tame grasses in winter and the fruits and all other farm crops as well. All our fuel, fence posts, and all else in that line have been gathered from timber planted and grown on the farm, for more than fifteen years past. We have found no trouble in growing alf these. Parties from Indiana and Illinois, seeing our tame grasses the past season—over one hundred acres,—pronounced them, without exception, the finest they shad seen anywhere. We have forest they from five to seven feet, and one more ing but little rain or sleet. We were fagirth from five to seven feet, and one more than sixty feet high-saw-logs, in fact, growing on upland prairie. Our orchard has net-

next spring, and to seed fifty or more acres to clover and other tame grasses. We have found these to pay better than grain.

The little wheat that was sown last fall looked well up to the time it was snowed under. In boring holes for fence posts in November we found the ground quite moist to a depth of two feet or more, which we think, augurs well for a good crop the com-

We practice a mixed system of agricul ture and find it gives one a continuous, profitable employment the year round, and if rightly and judiciously carried out, a con tinuous income as well. W. MARLATT. Bluemont farm, Riley Co., Kas.

High Tariff and Protection.

EDITOR KANSAS FARMER:-I was some what amused and considerably aggravated at A. J. Grover's lecture on "War Tariff," as he styles it. I do not see how he or any other thinking or reading man can make such charges, as he does, against the tariff policy of the government. Does he not know that the reduction of the tariff on wool ruined four out of five western sheep men? Men who went into the sheep business eight and ten years ago in this country made money as long as the tariff was let alone, but as soon as the tariff was reduced the wool did not pay the expenses; therefore they simply had to retire and live on the interest of their experience, which in some cases, was considerable. Mr. Editor, I am not talking from hear-say on this sheep business, but from sad experience, and for figures, if he wants them, let him go to the market reports of eight and ten years ago, when we had a high tariff on wool, and also of to-day, when we have a reduced tariff.

He also speaks of the woollen mills being closed or running on half time, or, bankrupt. It is simply because the cranky free commerce fellows are always tinkering with the tariff, and reducing the tariff on manufactured goods as well as on wool, which enables foreign manufacturers to put their goods on the American markets cheaper than they can be manufactured at home, even if there was no duty on foreign wool.

Then he is not satisfied with ruining two of the best industries of this country, viz: sheep-raising and woolen manufactures, but wants to turn in free ready made clothing. boots and shoes, hides and leather, iron and steel, lead, tin, salt, sugar, crockery, earthenware, cutlery, blankets, flannel, woollen yarn, cotton yarns, cotton cloth, lumber and every other article of prime necessity? I suppose he means by articles of prime necessity, such articles as tobacco, whisky, and genuine Dutch Ben, including foreign dynamite and the cranks to use the stuff. I claim this is a country for American people and American products, and I deny the right of any person whether foreign or na tive, to run American industries and products in the ground (as some railroads do their tracks when they can not get bonds to build one).

no use for them, as American capitalists can make more out of their money by investing in railroads and such like, which is not affected by the money savers at the head of ted us an average of a hundred dollars an the reform movement. Reform is all right acre for the past eleven years. It was put in its place; but when any man or set of is taxable, and nearly every section of the out some eighteen years ago. We propose men want to reform all the money we have

to plant out some twenty acres to fruit trees in America across the Atlantic, I think it is time to call a halt.

Does not A. J. Grover know that by protecting American industries he is protecting American farmers and laborers? What good would it do farmers if they could get their woellen clothes free of duty if they could not get any one to buy what wheat, corn and stock he has to sell. But then he may say the farmers are not protected. Does he not know that whatever protects the manufacture causes the manufacturer to employ more help and pay better wages, and whatever laborers get for their labor four fifths is expended for their eatables, and that certainly goes to the farmers. What if the farmer does pay four or five dollars for a pair of boots, he does not mind it when he gets six or eight cents per pound for a hide he has to sell. I think we would be better off if we had more Sam Randall's and Pig iron Kelley's in Congress than there are now. I am yours for for high tariff, and protection to American industries, abolish-ment of national banks, and for government money, and postal telegraph. Kinsley, Kas. H. HIXON.

Easily Understood.

EDITOR KANSAS FARMER:-No doubt there are those who will think it presumption on the part of a woman to be interested in or comprehend, or express an opinion relative to the tax and tariff problem. It appears to me that politicians, for political purposes, have literally buried this problem in a rubbish of arguments that when reduced to its simple or primitive form, any thoughtful mind might understand, and it might be, prescribe a remedy; and further, that any thoughtful mind should, if independent of party prejudice, be able to resolve it into its simplest form. We might discuss this taxation question until doomsday and it will effect no radical relief so long as there is a large per cent. of ignorant long as there is a large per cent. of ignorant voters, who will sell their votes to elect unprincipled men to represent us. We, the American people, voters and women, are the slaves of this ignorant majority vote. The time is coming when a national political school is made a necessity, and every voter will be required to present a certificate of intelligence before being allowed to vote upon questions involving the public weal or woe—ins own as well as his neighbor's. If we would seek to remedy the present ruinous system of taxation, we must look to the forces that centrol them. For the most illiterate and immoral class among the American people are its sovereign ruler; their votes forces that control them. For the most iliterate and immoral class among the American people are its sovereign ruler; their votes
are made, bought or sold, like any other
thing that is made; it is the lever used by
corrupt political parties to secure the balance of power. So long as corrupt political
parties are in power, will this majority (insensible) vote be utilized in this way. If
you would have a pure stream, cleanse the
fountain head. We, the people, elect to
serve us these government officials; we are
taxed to support them. These government
officials have finally resolved themselves
into a machine, and the machine is on a
down-grade, taking the people with it. Better smash it before it smashes us. They
nowl high tariff, low tariff and no tariff, and
all the time the consumer, be he rich or
poor, is paying the bill. Be it direct taxation on home manufactures, or indirect
tariff, as on foreign imports. The foreign
importer collects his revenue for our government from the consumers, (our people) who
buy his goods. It is taken from the general
circulation and massed in the public treasury. At the same time our home manufacturers under the mercenary impulse, increase

only numane use never nad. In conclusion, when our consumers are called upon to protect home industries, they must bear in mind that protection signifies millions of dollars. We suggest that it be appropriated to orphan asylums and hospitals for the victims. Will our editor give us the George system of taxation?

system of taxation?

MRS. M. J. HUNTER, Concordia, Cloud Co., Kas.

CREAM OF A WEEK'S NEWS.

Several Arkansas train robbers captured. Forty vessels were caught in the ice of New port, R. I.

Heavy storm reported throughout the East ern and Middle States.

War clouds are gathering over the line be-tween Russia and Austria.

Nearly ninety persons were killed by a coal mine explosion near Victoria, B. C.

Several railroad companies have adopted a 2-cent rate per mile for passenger traffic.

General and President Diaz, of Mexico, is a candidate for re-election, with the tide in his favor.

Colored people are making a move toward asking that a national emancipation holiday be named.

The "carload lot" question is being considered by the inter-State commerce commissioners

The Massachusetts House of Representa tives, by more than two-thirds majority, passed a resolution to submit to the popular vote a prohibition amendment to the constitu-

A negro emigration from the United States to the Argentine Republic, S. A., is expected to commence soon. Associations are forming at many places in the Northern and Western

M. Genadius, the Greek minister at London, has been ordered to proceed to Washington immediately and to spare no efforts to induce the American government to abolish the duty on currants.

Three colored men were taken from the jail at Plymouth, N. C., and shot to death by a mob of white men. The victims had been charged with murdering a pediar and were imprisoned awaiting trial.

The new Captain General of Cuba is carry ing things there with a high hand. A dispatch says that although he has been in the office but three months, his administration is reek ing with crimes of every description.

The Okio Wool-Growers' association met at Cleveland and adopted resolutions declaring that the tariff of 1867 is necessary to the protection of the wool industry, and opposing the nomination of any candidate for Congress or President who is not publicly pledged to favor and support protective duties to the extent aforesaid. The resolutions favor abolishing the internal revenue tax on tobacco.

The New York Sun says: "The sugar trust gave another evidence of its power yesterday when it ordered Moller, Sierck & Co. to close their refinery. One of the firm said that the shut down would not occur until the raw sugar on hand had been used up. In the meantime the firm notified its employes to look out for other jobs. This is the fourth sugar com-pany that has been closed since the sugar trust was perfected in this city."

From a Chester, Pa., dispatch it is learned that a new fuel-saving device was publicly tested at the rolling mills there. The process is simply the spraying of fine coal, reduced by the cyclone pulverizer to a powder, into a chamber attached to the furnace in which the combustion is so perfect that all the waste hitherto occurring in smoke and ashes is entirely obviated. The general result showed a saving of between 40 and 50 per cent. of coal, a saving of 50 per cent. in time of heating the furnace and a greatly improved quality of

A dispatch to the New York Sun, dated Albany, January 27, says: "The Democratic State committee failed to make a cnoice of a man to represent New York in the Democratic committee. They met at the Delavan house, and after thirty ballots adjourned at midnight. The vote was 17 for Roswell P. Flower and 17 for William J. Mowray on each ballot. This leaves the State without a representative on the national committee. It was a square down fight between friends of the President and friends of the Governor, and neither

The Choctaws are greatly excited over their net proceeds claim against the United States government, for property which had to be abandoned in Mississippi and Alabama, when they were removed west. This property consisted of improvements, houses, fences, etc., on lands sold to the government, and for which the government agreed, in the treaty, they should be paid. It has never been paid, and now amounts to the round sum of \$3,600,000. It has been allowed by Congress two or three times and also by the United States court of claims. About half of it is pledged to attorneys and the other half to middle men, and the quarrel among these worthies causes some confusion in paying the claim.

The following is published: "Now, therefore I, Howard Douglass, Supreme Chancellor of the Supreme lodge, Knights of Pythias, of the world, do issue the following order: "That

the Grand lodge of the Knights of Pythias of Pennsylvania, from and after this date, is hereby suspended and all its powers and functions as said Grano lodge, emanating from the Supreme lodge of the Knights of Pythias of the world, revoked and recalled; and its acts as a Grand lodge, or of its officers during its recess, cease to be legal or of any force or effect."

A Boston, Mass., dispatch of the 28th January says: The executive committee of the Democratic State committee of Massachusetts this afternoon adopted resolutions stating that the Democrats of this State are a unit in their support of President Cleveland and the policy outlined in his last annual message to Congress; that we believe it to be the duty of Democrats throughout the United States to advocate, support and insist upon the adoption of the principles enunciated therein, as the great issue upon which the Democratic party with its candidates in the approaching election, can achieve an overwhelming victory at the polls.

A dispatch from Lincoln, Neb., dated January 24, says: So much suffering and death has been reported among the teachers and pupils in this State in the last storm that prominent people and papers have advccated public contributions to the heroic teachers and to aid those who have been crippled through losing limbs by freezing. To secure accurate data the State Superintendent to-day issued a circular calling upon all County Superintendents to forward at once the names of teachers and pupils in their locality who perished in the storms, those who have since died from the effects of exposure and the names of teachers who performed keroic actions in saving and attempting to save the lives of their pupils.

A Boston special says that arrangements are completed for the formation of a milk trust which is to include every cow that contributes to the Boston market. It was also proposed that a sum of money, say \$25,000, should be put into a pool for the purpose of buying creameries, twenty in number, at the most important central points of the milkproducing districts, these creameries to be used for the storage of milk when there is a temporary over-supply in the Boston market, and at such times as there may be controversies with the contractors. It was also proposed that the trust, as a corporate body, should buy milk in large quantities, thereby securing the lowest rates, and sell to producers at prices far below those they now have to pay. The scheme was referred to a committee to report to a special meeting to be held thirty days hence.

Gossip About Stock.

That well known and careful breeder of Poland China swine, Mr. Wm. Plummer, Osage City, Kas., renews his breeders' card and wishes to state that no more pigs will be for sale until May, 1888. Last spring pigs have all been sold. Mr. Plummer is a permanent advertiser and finds that it pays

It is gratifying to the publishers to call attention to the poultry card of Mr. Mark S. Salisbury, Independence, Mo. This makes the seventh consecutive year for this successful advertiser with this issue of the FARMER and shows that the merits of this paper are unsurpassed as a profitable medium for reliable advertisers.

Mr. Burt L. Mannel, Toronto, Woodson County, writes: "Stock is looking well. It has been pretty cold, twenty-four below zero; the ground is getting thawed out, lots of stock water now. Before the thaw, water was getting frozen flear to the bottom. Corn turned out about fifteen bushels to the acre on the prairie; no eats, bugs got away with them.'

Every farmer that has cows will do well to examine the merits of the Champion Creamery, which raises all the cream, between milkings, and makes a most superior grade of butter. It has a surface and bottom skimmer, so that every one using it can suit his convenience. Every one should examine the illustrated pamphlets before purchasing others,

Sales made since my ad commenced in the KANSAS FARMER, writes W. S. Hanna, Ottawa: "I have shipped two old boars, one to that active, wide-awake breeder, F. E Scotten, of Bolivias, Mo., and one to the firm of M. Hicks & Bros., Girard, Kansas. This firm visited the herds Robert Cook, R. Baldridge, I. N. Whipple, and others, be-fore purchasing of us. Sold a pair of young fore purchasing of us. Sold a pair of young sow pigs to S. Stiers who takes them to Hayden, Ohio; a pair, including a Buckeye boar, to that fine breeder, M. McMillan, of Globe, Douglas county; a boar to W. S. Getzdafner, Coffeyville, Kas.; one to James thousands of hopeiess cases have been permanently cured. I shall be glad to send two bottles of my remedy free to any of your readers who have consumption if they will send me their Express and P. O. Address. Respectfully, T. A. Slocum, M. C., 181 Pearl St., New York.

Cooney, Colton, Kas.; a sow with pig to J. M. Henson & Co., Council Grove, Kas. We have bought Lord Corwin 7th 1651 S, a three-fourth Corwin boar, and a Lampe Bros. Tom Corwin boar, to increase the Corwin blood of sows already over one-half Corwin blood.

M. S. Hanna, Ottawa, Kas., says: "I can't get around the fact that one notice stating that I would "sell old boars at half original cost," though few had any idea what low prices that meant, brought me four inquiries and two buyers within a week thereafter, and added two more counties to the list of twenty-six. We are continually adding new blood, having bought five new sows also, and our prospective sales are very encouraging from many letters received.

Bloomington, (Ill.) Pantagraph: Farmers clubbing together to buy one or more imported draft stallions, is proving quite satisfactory and the plan is becoming popular all over the West. Five or ten farmers unite, each having several mares to breed; the the best class of stallions is secured, and a liberal patronage is thus readily obtained, and the community benefitted by the great increase in the horse breeding interest, and the improvement in quality and selling value by the grading up to meet the demands of the market for more heavy horses.

A meeting of Hereford breeders was held at the parlors of the Windsor hotel Wednesday to complete arrangements for competing for the prize offered by the National Hereford Association for the best Herefords raised west of the Mississippi river. The plan proposed is to form a pool among Hereford breeders, and share expenses and divide the profits. The following prominent breeders of Herefords were present at the meeting; Charles Gudgell, Independence, Me.; J. S. Hawes, Colony, Kans. C. M. Leighton, Lincoln, Neb.; F. W. Smith. Columbia. Mo.; F. R. Foster, Theo. Carran and F. P. Crane, Topeka.

The committee of the Consolidated Cattle-Growers' Association at Washington had a hearing before the Senate committee on Agriculture, recently, submitting reasone why Congress should pass without delay the cattle-growers' bill for the suppression of contagious pleuro-pneumonia, introduced by Senator Palmer. Hon. E. S. Wilson, of the Illinois board of Live Stock Commissioners, also made an argument before the committee in behalf of this bill, based upon facts developed during the late outbreak of the disease in this city. Every cattle-breeders' association that has met since last Nomember has endorsed this bill.

Springfield (III.) Journal: A full-bloeded Alderney cow owned at the St. Nicholas hotel farm, about three miles from Springfield, has displayed a wonderful projenitive capacity of late. Last Wednesday she gave birth to a fine, large calf of masculine gender. This was not strange, but she failed to furnish the newly developed bovine with nourishment. The manager of the farm supposed the cow was "spoiled," and turned supposed the cow was applied, and turned her in with the fat c tile for market. The farm hands were astonished to-day at the birth of two more calves from the same cow. The latter are helfers, and since their birth the mother has furnished an abundance of milk for her triple production.

Bill Nye, the great American humorist, heralds the advent of good stock stock sales for 1888 by advertising his cow as follows: "Owing to ill'health I will sell at my residence in town 29, range 18 west, according to goverment survey, one plushed-raspberry colored cow, aged 8 years. She is a good milkster and not afraid of the cars—or anything else. She is a cow of undaunted courage and gives milk frequently. To a man who does not fear death in any form she would be a great boon. She is very much attached to her home at present, by means of a trace chain, but she will be sold to any one who will agree to treat her right. She is one-fourth Short-horn and three-fourths hyena. I will also throw in a double-barreled shot-gun, which goes with her. In May she generally goes away somewhere for a week or two, and returns with a tall, red calf, with long, wabbly legs. Her name is Rose and I prefer to sell her to a non-resident." "Owing to ill health I will sell at my resi-

Consumption Surely Cured.

To THE EDITOR:-Please inform your readers that I have a positive remedy for the above named disease. By its timely use

Excursions to the South.

Arrangements have been perfected for a series of cheap excursions to the South, by the Gulf Route. Excursions will leave Kansas City and stations on that line on Tuesday, January 24, February 7 and 21. Tickets will be sold at the rate of one cent per mile from Kasas City and stations south on the Gulf line, and will cover prominent points in the States of Tennessee, Mississippi, Alabama and Louisiana. Excellent opportunities for homeseekers to investigate the many advantages offered in the South. For full information, see excursion bills; address any agent of the Company, or J. E. Lockwood, Gen'l Pass. Agent.

Farm Loans.

Loans on farms in eastern Kansas, at moderate rate of interest, and no commission. Where title is perfect and security aday for money. Special low rates on large loans. Purchase money mertgages bought.

T. E. BOWMAN & CO.,

Jones Building, 116 West Sixth street,

Topeka, Kas.

Short-Horn Bulls for Sale.

Five extra good registered Short-Horn bulls for sale cheap-on long time, if de-J. B. MCAFEE, Topeka, Kas.

I will exchange farm lands or Topeka city property or Garnett city property for dry goods or mixed stocks. J. H. DENNIS, goods or mixed stocks. J. H. Dennis, 420 Kansas Avenue, Topeka, Kas.

O. N. McCLINTOCK & CO.,

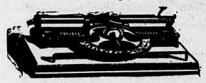
MANUFACTURERS' AND

General Purchasing Agents TOPEKA, KANSAS.

We are State Agents for and keep stock and can fill arge or small orders on short notice, of

WHEELDON'S ADJUSTABLE SHADE FIXTURE, PATENT SELF-LOCKING MAIL BOXES.

"The World" Type-Writer



Guaranteed to do as good work as the high-priced type-writers, and only costs \$10.00. Sent to any address on receipt of price, or by sending \$1.00, to guarantee express charges, we will send one C.O.D.

Cylindrical and Portable Letter Copying Press.

Size—11 inches long, 3 inches diameter. Nickeled Steel. Weight 2 sounds. Price \$5.00. Fitteen letters copied at a time on single sheets, using ordinary writing utensils, while such copies are adapted to all systems of filing. Use the PORTABLE, in traveling or at the desk.

OBLINGER CHAMPION - HEAT - DISTRIBUTOR.

It will save half your fuel. It costs only \$2.00 for size No. 6. It can be attached to any stove in fifteen minutes.

The Chicago Edwards' Oil Burner & Manuf'g Co.'s Goods, crasisting of PETROLIA HEATING STOVE, for Parlor or Office, and OIL BURNER FOR COOK STOVES AND RANGES. No dust, no ashes, no smell. Cheaper than Wood or Coal. Also OIL BURNERS FOR STEAM BOILERS. Also ECONOMICAL ASBESTUS FUEL CARTRIDGE AND FIRE KINDLER

DLER.
ECONOMY WALL DESK.—Everybody who has a home should have a Wall Desk. Cheap, handsome, convenient. convenient.
"NEW ERA" HYDRAULIC CLOTHES WASHER
—On which the manufacturers offer \$1,000 to any person who will produce its equal.

Correspondence solicited. Circulars on application. O. N. McCLINTOCK & CO.,

Manufacturers' and General Purchasing Agents No. 417 Kansas Ave., TOPEKA, KAS. (Rear Room Second Floor.)

HELP WANTED. \$25 a week and expenses paid. Steady work. New Goods. Samples free. J. F. HILL & CO., Augusts, Maine.

Single Breech Loaders, \$3.75, \$8.50 and \$11. Double, \$3, \$10.75, \$13.50 and upwards. Fishing Tackle, Pocket Cuticry and General Sporting Goods. Send for 165-page III. Catalogue. CHARLES B. PROUTY & CO., Catalogue, CHARLES Branch, Chicago, Ill.

of letters, circulars, pamphiets, books, papers, magazines, etc., FREE, send id cents (silver) and get your address in the OLD RELIABLE AGENT'S RECORD, which goes all over the world. It is but a small investment which pays you well. One person received more than 600 packages of mail-from two insertions. Address RECORD PUB. CO., Muncle, Indiana.

The Some Circle.

Discipline.

BY PHŒBE PARMALEE.

The ceaseless washing of the waves upon the shore have left their impress; The sands are purified and white. The peb-

bles, too, have felt the wave's caress; All roughness worn away-their own true

colors clear, they thank the wave That through long ages past had brought such grace-such beauty gave.

So, when eternal ages shall have come to us, we then may gaze

Back into time, and note the things which wore and fretted in the days That seemed so long and troublesome, the

nights that brought no rost, And we shall say, Behold! I know those old afflictions made me blest.

The Old House at Home.

There's a little old house standing in a back street, Like its builder and owner grown gray; And its walls the old story of time still repeat, Plainly showing the marks of decay.

In its chambers there lingers the patter of feet
That will never grow weary or old;
In the house that now echoes their rhythmical

The floors are all laid of pure gold.

A wonderful garden, when full in its bloom, Behind the old house shed its light; Earth never held flowers with such a perfume! Or tinted in colors so bright.

From the home of my childhood my face I O'er the world I may wander at will—
In the hearts of its roses the red fire will burn,
And their sweet breath will follow me still!

There were sweet-scented violets royally dressed
In velvet of purple and gold,
Shyly peeping up out of their cool, fragrant nest,

In the grasses' o'ershadowing fold.

There was humming bird's corner, where odors of spice
Intermingled with lilac's sweet scent;
Like to rainbows in spray these winged "gems without price,"
Iridescent, now came and now went.

Some day (and that will be a day full of dread!)
Through that garden will run a new street,
Then on other than hearts of the roses will

And will trample, the strange, careless feet! Soon the workmen will raze the old walls to

the ground,
And the winds will sweep through as they
fall—
Will the outermost wave of the ripples of Wash softly against the white wall

Of the home where the missing behold the Lord's face, And smite jarringly sad on their ears? If sorrow in Heaven could e'er find a place, Would they not be melted to tears?

Why not spare the old homes where our child-hood was passed? Build the new ones elsewhere if you must; Let the old homes remain as they are to the

Till Time's charlot grinds them to dust!

THE FAIR

Read before the Mound City Farmers' Institute, January 19, 1888, by Mrs. M. M. Stearns.

The annual fair has become so much the fashion of the time, the subject seems of importance enough for a paper before this meeting. So universal are they that for good or evil they must wield a powerful influence on the civilization of the age. The fair talk begins in the spring, increases in volume through the summer, and culminates in the grand finale of the fair in September. It is looked forward to by a large proportion of the community as an event of interest, and dates are remembered with reference to it, as, "that was before the fair," or, "that was after the fair," as though the precise time was definitely understood when thus named.

memories that cluster around the time in the brain of hard-worked Ebenezer when he thinks how blooming Abigal looked in that new dress worn first at the fair; how many a sharp word he chokes back over the neglect to supply the missing button or have dinner on time, if she chances to smile the way she did that day at the fair; or how many divorce suits are saved the courts when the gilding of the marriage bonds seems ready to-well, in the fierce heat of a first quarrel, when both by a most lucky chance remember that beautiful day at the fair, when the sun shone on the happy

dream-land, where their vows were plighted, while the music of the band filled all awkward pauses. How young Tom and Dick look forward to the fair in the long hot summer days, when the interminable corn rows that must be followed hour after hour seem a never-ending series. They will see some thing of the world then. They will treak the colt then, and may be they can compass a new buggy to show him off in; and Ann and Julia, do not their thoughts run often on the possible finery that shall make their wealth of youthful good looks beautiful. And the farmers' wife, from whose class the statistics say, are furnished the largest percentage of the insane, may possibly be saved from increasing that percentage, by the pleasant anticipations of the fair, as she cans and preserves for her exhibit in the pantry stores; and the farmer himself may be lighter of heart for the hope of the respite from toil the days of the fair will give

But while we may dwell pleasantly on the advantages and pleasures of the fair, we come to some of the abuses that make thoughtful people question whether the evil may not outweigh the good. We wish to teach the children the advantages of sober industry, of slow but sure economical gains. We preach against the evil of gambling and we allow gambling establishments at every corner. The wheel of fortune, and what not of gambling devices which pay a revenue to the association, and the gambler's voice. crying his wares and calling his victims. falls into cadence with the music, and we pass along content with-"helps pay expenses, the license this man has paid"—while our precious Tom and Dick, and may be Ann and Julia, have stopped there to see the fun. It is holiday time with them; the stern lines of duty are relaxed; that silver dollar is heavy in Tom's pocket, why not try it? Why not let Julia see how nimbly he can make it two. And so far the downward path there must always be the first step. We must not complain; we sanctioned it. We needed money for expenses. No matter if the gambler departs with hundreds of dollars won from the young and foolish of the community, the very ones we are bound to protect if we are wiser. The fair was helped on by the license he paid, let him go.

Then the race-track at an agricultural fair has become as sure as stock pens, and just as necessary, we are told. There lies the smooth, dark ring of track, on one side a judge's stand, opposite an amphitheater of seats to which the public are admitted at ten cents a head to see the races. Long after the seats are filled the dark ring lies there solitary-crossed now and then by a mounted police, chasing a reckless dog which has dared to invade its charmed circumference, and the public cheer, thankful for a break in the long monotony of waiting. The judge's stand is beginning to fill; now, surely, the curtain will rise and the play begin; but it does not. One of the judges leans over and calls, "Jim! come up here, Jim!" and a man crosses the track in response, and the knowing ones say they are after Jim to increase his bet; somebody has got to help or the race don't come off. But now, slowly and solemuly an animal is moving along the track. It is long and lean and resembles a horse and a greyhound. Harnessed so it is an airy combination of wood and iron on two wheels, on which sits a driver who spreads himself on both sides of the animal until we are reminded of a centipede, and he carries a whip. No. 2, equally long and lean, with a driver and a whip. No. 3, ditto, except he wears what looks like manacles on each leg, and his driver carries a whip. Their speed increases as they go round and round, and by Our gala days are ever too few as life and by come up into line by the judges and are told to go. There seems to be a desperate scratch to get over the ground by the poor animals, the one tries to take short-cut cross lots, he is reined in, and round they come, the sound of the flying feet and hissing of the whip as it comes down upon their shoulders, mingling with the sharp cries of the drivers and the shouts of the crowd. That noble animal, the horse, which we are told loves the racing, stands still at last, his thin frame trembling, his nose thrust out like a dumb cry for "air! more air!" There are whip welts on his shoulders, while his nostrils play like wings; he is tottering while a groom runs up with smelling salts

blanket is thrown over him and he is led

Contrast this description with that of a Spanish bull-fight, and which is the more civilized? In one the animal is goaded to frenzy for the amusement of the crowd; in the other he is whipped and driven to exhaustion. And when you ask what connection horse-racing has with an agricultural display, you are told it draws a crowd and you couldn't do without it; and besides, a fast horse is the pride and desire of every farmer. The pity of it! That the noble, high-lifed, well-fed horse of any prosperous farmer who jauntily carries his master whither he wills, should ever be made into one of these speeding machines, or that young Tom or Dick, catching the racing and betting fever, neglects his work, forgets the farm to make a racer of the colt he has reared so carefully.

Would it not be possible, with this gala time, to give us something better than these dreary races; some speaker to come to us and give us some new thought, some inspiration to help us forward in this march of life, or a play that is really amusing, whereat we can heartily laugh and forget life's tragedy? Can we not make of the fair a benefaction, and by eliminating the evils too patent to the observing, give a new lease of life to a holiday time that we may all anticipate with pleasure?

The Model Farm Home.

Read by Mrs. Agnes Westwood, before the Farmers' Institute at Oak Grange Hall, Jan-uary 20, 1888.

We all admire beautiful architecture, and grounds prettily laid out with trees and flowers. God not only gave us a taste for the beautiful, but created in nature everything for our admiration; and if we fail to see it, is it not because we do not educate ourselves to appreciate it, as we should? But what is it that makes the model home? Costly furniture may be there, and everything that money can do may be done, to make life enjoyable, and yet something may be wanting. These things sometimes tend to make us selfish and unfeeling toward the outside world; but if contentment, harmony and love are there, no matter what our surroundings are, the home will be a happy one, where each member is careful of the other's feelings, and will not needlessly wound them. And if there should be one who is old and feeble, or young and helpless, we must be particularly watchful over them, attending their wants with love and patience; by doing so we shall not only add to their happiness and comfort, but be building our own characters and cultivating true heart refinement.

And, oh! we must each one make our aim in life high; we shall be sure to fall a little below the mark; we must watch over ourselves; our evil nature is always ready to assert itself, and our influence may be greater than we think. There are always others watching our footsteps, and will in a measure walk in them; let us be very careful where we lead them.

We must be contented with what we have, making the most of it in every possible way; for what our hearts desire is not always necessary or best for us to have. We must be faithful in our smallest duties, and that will help us to be more successful in our larger undertakings.

Let us help one another in our education. and in making plans for the future, in perfect love a confidence in each other; never let a feeling of envy enter our hearts, so that we may truly rejoice in each other's

We who attend to the wants of the family must make it a rule to be punctual, and try to have the meals ready at the appointed time, and if we are sometimes kept waiting till the dinner seems spoiled, let us rememter it is no worse for us, than for those who are detained, so that when they come in hungry and tired, let us be cheerful as we can, for the dinner will taste no sweeter for being served with impatience.

Music is a great charm in the home circle, and adds greatly to its mirth and pleasure, but it is not essential to its happiness. We can all have bright fires and everything in its place, and with plenty of books and papers to read and enjoy together, these long winter evenings, we ought to have happy

Hood's Sarsaparilla is a purely vegetable crowd and they too strolled away into that in the shape of a huge sponge, and a warm dients. It is peculiar in its curative power.

From Bramblebush.

With the new year the KANSAS FARMER comes to us in a new dress, and although it is very pretty, not all the fancy headings can make the paper any better or any dearer. So many years it has come to us that it seems like one of the family. Through the bright summers and the long winters, through joy and sorrow, still we have welcomed the FARMER.

Phœbe Parmalee: I also scald the milk in winter and stir the cream. I think that it saves work and one certainly gets more butter that way. We bake bread only once a week. It generally holds out pretty well with the aid of corn bread and corn cakes.

[Here follows a "crochet pattern," but it is so much abbreviated, and is written so closely that the printers hesitate about putting it in type lest they make mistakes. If Bramblebush will re-write it, putting the lines and also the words farther apart, and writing it all out just as it is to appear in print, we will have no trouble in getting it right.—EDITOR.]

I think you are lucky, Phœbe Parmalee, in having canned fruit for winter. Here in the southwestern part of Kansas we have not raised any fruit yet. So we depend a good deal on the evaporated fruit, which I like much better than I do the canned fruit you BRAMBLEBUSH.

How to Cure a Cold.

Would some one like to know how one woman treated two cases of severe cold? The patients were children, and their throats and lungs seemed to be in a badly inflamed and irritated state, so much so that the usual compress of cold water had little effect in restoring health. I placed the childrea, one at a time, in an easy chair with the feet in hot water. I continually added to the water, keeping it as hot as the child could bear. While attending to the foot bath I had at hand a basin of hot water and wrung cloths-alternating two-and put them on the afflicted throat and chest. After a half hour of such treatment I put on a cold cloth well covered with flannel and put the patient in bed. The result was all that could be desired.

Fashion Notes.

Ermine and sable are old or long known

The most fashionable boas reach nearly to the hem of the dress.

The newest sealskin sleighing hoods are shaped to the plush caps of little girls. The crown is high, the brim close and turned back.

"Perpetual motion" is the latest departure in earrings. The solitaire pendant is set on a miniature ball, and oscillates con-

A new design in cuff buttons represents thy envelopes of silver, with gold stamps in the upper right-hand corner, and a mono-gram set with tiny diamonds in the center.

A new arrangement of ribbon upon plain A new arrangement of rhood upon plant bonnets, instead of the standing loops so long in vogue, is to gather or plant it along one edge and place it back and forth three or four times from the brim to the top of the crown.

The prominent feature of the present season's bonnets is the long, loose folds which form the soft crowns and full fronts. All fabrics, velvet, cloth and felt, are thus applied, being considered more effective than when drawn smoothly over a frame.

Fur-trimmed bonnets will no doubt be extensively worn as the cold season advances. Sable, black Persian lamb are the furs most liked, and they are used in borders, in tabs on the crown or loops for triuming and in tiny heads set about among the triumings.

Pretty black velvet toques for young la-dies are trimmed with a single quill which points forward from the back. The quill may be black or a grayish white if to be worn with various dresses, or colored ones may be used and changed to harmonize with any dress.

It is good form now to have one's gar-ments harmonize in style and material, even though a contrast in colors is allowed. felt hat accompanies the ulster or the cich tailor gown for morning wear, while velvet and embroidered bonnets are reserved for dressy wraps and costumes of silk, velvet, plush and fur.

ECLECTIC, ALA., October 20, 1886.

Dr. A. T. SHALLENBERGER, Rochester, Dr. A. T. SHALLENBERGER, Rochester, Pa.—Dear Str: Last February I received from you a bottle of your Antidote for Malaria, and gave it to a young lady attending school here, but who had not been well enough to go for several weeks, and was quite broken down in health. In a few days after taking the medicine she was back in school again, and has not lost a day the entire summer. I think it is the best medicine I ever knew.

Yours very truly,
R. C. WILLIAMS.

The Houng Folks.

Borrowed Troubles.

Little Miss Midget
Is all of a fidget,
(Her cares as a mother are really trying,
Enough to make her despair);
"Oh, have you seen Polly,
My best little dolly?
I am so careful of her, but—I feel like crying—
I've left her I don't know where."

"What did she wear? Her own ringlety hair,
One little red shoe, her—yes, her gold looket,
And—Oh! her be-t-tiful smt-e!"—
Don't cry, little Midget;
"Tis foolish to fldget;
For there, in plain view, sticking out of your

pooket,
Were Polly's poor legs all the while!
—Mary C. Bell, in Wide-Awake. Our time is fixed; and all our days are num-

How long, how short, we know not; this we know:
Duty requires we calmly wait the summons,
Nor dare to stir till Heaven shall give permis-Blair.

Expression is the dress of thought, and still Appears more decent, or more suitable; A vile conceit in pompous words expressed Is like a clown in regal purple dressed.

What are fears but voices airy,
Whispering harm where harm is not,
And deluding the unwary
Till the fatal bolt is shot. —Wordsworth.

A SAUER KRAUT MILL.

How the Popular Edible is Prepared for Market.

"If you want to know how sauer kraut is made I'd better explain from the beginning," said Mr. Johnson. "Experience has taught me that instead of raising cabbage plants here in glass houses in winter time it is cheaper and better to raise them in the south from the seed and then transplant them to Illinois when the weather becomes warm enough. The plants are more hardy, larger, and I can get them set out several weeks ahead of the hot-house growers. We have nearly 2,000 acres of land in Tennessee, Florida and Illinois on which we grow nothing but cabbage. We plant the seed in Tennessee in March and then transplant the plants in car loads to Florida and Illinois. There are from 300,000 to 600,000 plants in a car load. Sounds big, but it's true. The cabbage planted in Florida from Sept. 15 to Dec. 1 ripens from Feb. 1 to June 15. We have had new cabbage as early as Christmas down south, but that's unusual. Here we plant from May to July, and the cabbage is ripe from August until frost comes. October is the big month."

"Do you raise all your own cabbage?"

"Don't begin to do it. We buy over \$200,000 worth of cabbage every year from farmers around here and those in Iowa. There are five car loads of Iowa cabbage standing on my side tracks now. No; Iowa cabbage usually is not as good as Illinois, but this year it's better because they've had more rain there than we've had. Farmers for miles around bring their cabbage to us. See that string of wagons along that street," and he pointed to a row of wagons loaded with cabbage like so much hay.

After the first wagon load of cabbage had been weighed it was hauled to a large, long building, two stories, or really one and a half stories in heighth. The sides were open, and with a nitchfork the cabbage was tossed into the upper floor just like hay is put into the mow. But instead of being scattered over the floor the cabbage is piled up in a space about fifteen feet in width, a board nailed up to the inner rafters preventing it from going farther. After the cabbage was unloaded the driver took from a lower platform a load of cores and outer leaves of cabbage. This is fed to their cows, and is said to do them as much good as the sauer kraut does human beings.

We'll go inside now and I'll show you where those cores and cabbage leaves come from," said Mr. Johnson, leading the way Had I known what it was I would have gone there first. Ranged around the room, to call it that, at equal distances apart, were thirtytwo girls working as busily as bees.

In her right hand each girl held an instrument which can be described as a huge "cheese trier," one of those things you stick in cheese, give it a twirl, and then pull it out, to test its miteyness, you know. Well, those girls treated the cabbage like one would excess. Drawing one down from the pile with a spiteful little dig she'd thrust the

knife into the, ide of the core, give her wrist a couple of twists, and the whole core would come out as nicely as could be. They were very expert at it, and could core 600 cabbages an hour with ease. After the core was removed, with three or four blows with the knife, the outer leaves of the cabbage would be whipped off with all the worms, dirt and insects, and shoved into a trough, from which they fell to the platform described before. At the same time the clean head of cabbage was thrown back of them on to a big, broad platform, running the whole length of the room. On this platform were half a dozen women armed with hay rakes, and as the cabbage was thrown on to it the women pushed it to the center of the floor, where four men took it and fed it into a machine somewhat resembling the stones of a grist mill.

A very interesting and important part of sauer kraut making is the cutting of the cabbage. As wine depends greatly on its age for flavor and quality, so does sauer kraut depend upon the manner in which the cabbage is cut. To be firm and crisp, yet tender, the cabbage must be cut in long thin slices. To chop it up fine, which would be much easier, would practically be to spoil it, or render its value much less. After experimenting for over five years a knife was invented which does the work in the most satisfactory manner. By means of a shaft in the center it is made to revolve very rapidly, and eight knives slice the cabbage as neat as a butcher could a steak. The knife can cut meat, too, as some of the operators have found out to their sorrow. This wheel of knives is about thirty inches in diameter, and will cut from 50,000 to 60,000 pounds of cabbage a day, depending on the skill and energy of the feeders.

Four feeders work, although only one can feed if desired. The head of cabbage is laid on the wheel and the pressure of the hand causes it to disappear in a few seconds. Beneath the wheel is a V-shaped chest or box, into which the cut cabbage falls. When it is full a big truck, holding 400 pounds of cabbage is shoved under it, the right side of the chest is pulled back, and the cabbage falls into the truck. The girls who cut the cores from the cabbage stand on a platform raised about three feet from the floor below the one on which the cabbage is un-

When one of the trucks is filled it is pushed along a gangway by two lusty young men and into a big building 56x184 feet. This is called the packing house. Never having seen the vault of a brewery, I can't say it looks like one, although I judge it does. It is filled with huge tanks 20 feet in diameter and 10 feet deep. There are twenty-eight tanks in this building and ten tanks in an adjoining building 32x96 feet in dimension. Each tank holds 400 barrels of sauer kraut, worth nearly \$4,000. Thus the thirty eight tanks, if only filled once a year, contain \$193,090 worth of sauer kraut. In each tank are two big strong men wearing long rubber boots.

When a truckful of cabbage is dumped into the tank they tramp it down. The object of this is to break the fiber sufficiently to let out the water, so the salt, which is plentifully thrown over it, will take action at once. In other words, it is to facilitate fermentation. The sole ingredients of sauer kraut are cabbage and salt. Worms and insects might improve the flavor, but they are religiously excluded.

It takes sauer kraut from two to four weeks to cure or ferment, depending on the temperature of the cabbage when put in and the atmosphere afterward. It can be kept as long as desired, and, like wine, improves with age. But it is not kept in the tanks. After fermentation it is placed in barrels holding thirty-two gallons each, and headed up as tight as an oil barrel. Then it is shipped in any quantity desired all over the ountry. - "Hassler," in Chicago Inter

A man can build a mansion
And furnish it throughout,
A man can build a palace
With lofty walls and stout;
A man can build a temple
Man can build a temple
But no man in the world can build
That precious thing called—Home.

No, 'tis our happy faculty, O women, far and wide, To turn a cot or palace Into something else beside; Into something else beside;
Where brothers, sons and husbands tired,
With willing footsteps come;
A place of rest, where love abounds—
A perfect kingdom—Home.
—Ione L. Jones. THE BRIDGE OF DEATH.

An Alpine Guide's Sad Fate .-- Dangers to be Avoided.

One day in August, in the summer of 1864, two Austrian noblemen were crossing the Grand Plateau in their descent of one of the loftlest mountains of Switzerland. They had crossed the Grand Crevasse in the morning by a snow-bridge which, though apparently insecure carried them safely over. They reached it again on their return late in the afternoon. The leading guide had advanced to the middle of the bridge, when, to the consternation of his fellow travelers, he suddenly disappeared from their sight. The bridge had fallen beneath his weight; he had proceeded with too little caution, and had disappeared foreyer in the abyss below. They tied together ropes and let them down into the crevasse, but no hand siezed them, no voice arose from the darkness.

How few of us realize the importance of trifles, or that incidents which in themselves seem wholly insignificant lead oftentimes to most momentous results. A single grain of sand holds in a vise-like grip the delicate mechanism of your most reliable timepiece.

The business man tied down to his absorbing cares, goes home at night with a throbbing brow and a lame back. This continues a day or two and he remarks to his wife that he is so overworked he thinks he had better take something to brace him up a little. He tries a tonic and for a few days feels better. He flatters himself he is well. Poor man, how little he realizes that the trifling indisposition was a voice warning him that the tired and overworked kidneys the most important primary organs of the system, had ceased to perform their proper functions. They no longer eliminate properly the waste matter of the system, and uric acid accumulates.

That means disease. The body cannot be healthy unless it be free from this poison. If the blood channels become vitiated with it, as they must be unless it is carried out of the system, the man is liable to disappear from the walks of life almost as suddenly as the guide who went down with the insecure but unsuspected bridge. So many of the ordinary diseases, so called, are the direct results of the action of this poison that it is difficult to tell how one will be carried

This was precisely the experience of Herman Urban of the celebrated firm of safe manufacturers, McNeale & Urban, of Cincinnati, O. He has always been a very active business man, had overcome many commercial difficulties, but about five years ago he began to run down with a sort of general debility, headache, want of spirit, and nervousness. "There seemed to be no life in my blood, no vigor in my muscles, no marrow in my bones," he says. He tried physicians in vain. Four years after this sad experience he reports that he used Warner's safe cure at that time and his prostrated condition was completely cured and had remained so to date. "I am," he remarks, "more than anxious that other business men, worn down and likely to be overcome by kidney disease whose manifestations are so mysterious that they cannot positively identify the disease, should try the magnificent remedy that did so much good to me."

A Planters Experience. "My plantation is in a malarial district, where fever and ague prevailed. I employ 150 hands; frequently half of them were sick. I was nearly discouraged when I began the use of

Tutt'e Dille

uld not fear to live in any E. RIVAL, Bayou Sara, La

Sold Everywhere. Office, 44 Murray St., New York.



Brilliant! Durable! Economical!

33 COLORS. 10 cents each, The PUREST, STRONGEST and FASTEST of all Dyes. Warranted to Dye the most goods, and give the best colors. One package colors one to four pounds of Dress Goods, Carpet Rags, Yarns, etc. Unequalled for Feathers, Ribbons, and all Fancy Dyeing. Any one can use them.

The Only Safe and Unadulterated Dyes. Send postal for Dye Book, Sample Card, directions for coloring Photos., making the finest Ink or Bluing (to cts. a quart), etc. Sold by Druggists. Address WELLS, RICHARDSON & CO., Burlington, Vt. For Gilding or Bronzing Fancy Articles, USE

DIAMOND PAINTS. Gold, Silver, Bronse, Copper. Only IO Cents

Live at home and make more money working for us than at anything else in the world. Either sex. Costly outfit

20 FINE VIEWS OF GEN. GRANT'S LIFE—And list of goods, for 25 cents silver. Just out. LEONARDSON & Co., 134 Van Buren St., Chicago.

BOOK OF BEAUTI ILL SAMPLE CARDS.

OF CHECKERS, Came of Mus Penny Morris Game of For and Geom. The Star Penny. The Great Triple Prize Puzzle, and Stemple Rock of Latellytic Vitting Curts. Prize Puzzle, and Stemple Rock of Latellytic Vitting Curts.

Good land, near the sea, cheap.
Fine climate, excellent markets.

ACENTS WANTED, either sex, to sell our property of the sex of the

Washing Machine we will GIVE ONE away in every town. Best in the World. No labor or rubbing. SEND FOR ONE to the National Co., 28 Dey St., New York.

HOME STUDY Thorough and practical Instruction gives en by Mall in Book-keeping, Business Forms, Arithmetic, Penmanship, Short-hand, etc. Low rates, Distance no objection. Circulars sent free. BRYANT'S COLLEGE, 428 Main street, Buffalo, N. Y.

HOLIDAY NOVELTIES

At Chickering Hall, Leavenworth, Kas.

PIANOS & ORGANS, Violins, Gui-prums, Musical instruments of every description.

F. Sole Agency Chickering & Son, Hardman, Stars, and Sterling Planos. Largest stock, lowest prices, easy terms. Address CARL HOFFMAN, ces, CARL HOFFMAN, CARL H

State Agricultural College

Free Tuition. Expenses Light. Endowment, \$500,000. Buildings, \$120,000 Grounds and Apparatus, \$100,000. 20 INSTRUCTORS. 500 STUDENTS.

Farmers' sons and daughters received from Common Schools to full or partial course in Science and Industrial Arts. Send for Catalogue to MANHATTAN, KANSAS.

Spaldung's Commorcial Clark
Lungesty Chemest-nest
Kungas City, Ma, J. F. Statung AM, Prinse COMMERCIAL BLOCK, Cor. 11th and Main Streets.

Established October 25, 1865—Incorporated July 11, 1867.

Al. English and Commercial Branches, Phonography. Type-Writing, etc., taught at lowest rates, Unsurpassed Advantages. No Vacations. Catalogues Free. 388 Be sure to visit or address this College before going elsewhere.

TELEGRAPHY. TELEGRAPHY. Never were the op-quent, or the demand so great for telegraph operators and railroad agents, as at present. Never were the financial inducements so great as now. The facilities are nowhere better than at the Central Iowa Telegraph and Rail-road Institute, at Ogden, Iowa. Circulars and all information, mailed upon receipted postal.

EMPORIA BUSINESS COLLEGE

BMPORIA

PROF. O. W. MILLER,

PRESIDENT.

KANSAS FARMER

ESTABLISHED IN 1868.

Published Every Thursday, by the

KANSAS FARMER COMPANY

OFFICE:

821 Kansas Avenue, Tepeka, Kas

J. CRAWFORD, - - B. MCAFEE, - B. A. HEATH, - Bu PRESIDENT - GENERAL AGENT.
- BUSINESS MANAGER.
- MANAGING EDITOR.

SUBSCRIPTION PRICE:

ONE DOLLAR A YEAR.

An extra copy ree one year for a Club of six, at \$1.00 each. KANSAS FARMER CO., Topeka, Kansas. Address

ADVERTISING RATES.

Reading notices 25 cents per line.
Business cards or miscellaneous advertisements will be received from reliable advertisers at the rate of \$5.50 per line for one year.

Annual cards in the Breeders' Directory, consisting of four lines or less, for \$15.00 per year, including a copy of the Kansas Farmer free.
Responsible advertisers may contract for display advertising at the following rates:

1 week 1 month 2 months 3 months 6 months 1 year	One inch.		Tino inches		Quarter column.			Half column.			One column.	
	6 10 14 25	00 00 00	10 18 25	00 00 00 00		18 30 40 73	50 00 00 00 00 00	,	35 55 75 35	00 00 00 00 00 00	100 125 225	00 00

All advertising intended for the current week nou'd reach this office no later than Monday.

should reach this office no later than Monday. Electros must have metal base. Objectionable advertisements or orders from unreliable advertisers, when such is known to be the case, will not be accepted at any price.

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

references are given.
Every advertiser will receive a copy of the pape free during the publication of the advertisement.
Address all orders,

KANSAS FARMER CO., Topeka, Kas.

The Kansas State Fair will be held at Topeka, September 17 to 22, inclusive.

The Nebraska State Fair is to be held at Lincoln, September 10 to 14; preparation days 7th and 8th.

A Washington correspondent says "A forthcoming tariff bill puts wool. salt and lumber on the free list, and reduces the tax on tobacco and fruit brandies and 20 per cent on sugar."

Mrs. Laura M. Johns, in a circular letter to the press of Kansas, calls attention of women in cities to the matter of registration so that they may be entitled to vote at the spring elections.

A considerable number of subscribers took advantage of our offer to wait on them until the end of January, and some of them have written letters of thanks. We are trying hard to do our

Fair associations should not forget, when planning for next fall fairs, that the KANSAS FARMER is a good premium. It would be worth more to some farmers than a premium of twenty-five dollars in gold.

Proceedings of the national convention of cattle-growers at Kansas City last October 31 and November 1 and 2. are now published in pamphlet form officially. It makes a book of 102 pages in convenient form for reference. The addresses delivered before the convention are all in this book and constitute a feature of great merit.

A correspondent asks-"How would Mojor Sims, ex-Secretary of the State Board of Agriculture do for our next Govenor?" Major Sims is good material for Governor, but he declined a reelection to the office which he filled so well because he wants to get out into the open air again. Six years of office wants the rest that freedem ensures.

A man named Wilkeson-Frank Wilkeson-is gaining some notoriety by reason of the select medium through which he is permitted to say some mean things in a cowardly way. Frank must have a crow to pick with somebody who, like himself, owns land in Kansas. Without questioning his motives, it is sufficient to say that if he really does not know any more about Kansas, her climate, soil and people, than his recent letter in the New York Times shows, it would do him no harm to let that subject alone; for when a man goes to writing about things of which he knows nothing or so little as to expose him to ridicule and contempt, people soon learn to suspect him and then to despise him. He declares no corn can be raised, profitably faised, west of the 97th meridian, and that only on corn lands Eastern companies that they will lose everything if they venture to touch

is an extract from his Times' letter:

"And I further claim that to plant trees and to build houses and sheds on, and to dig wells in land that, owing to its altitude and climate, will not produce sufficient crops to support a man and h s family, does not add to its value. The standard with which to measure the value of agricultural lands is the produce that can be grown on it in average years. If it will not yield enough grain to keep a family, it is worthless for agricultural purposes, and should be held sacred to grazing. The improvements that may be made on it cannot be eaten. They produce nothing except an increase of taxation. No one can clothe himself with a well, or wear a cow shed on his back, or eat a cottonwood tree. My neighbor's land was originally too dry to produce sufficient crops to support him and his family. Its productive capacity has not been increased by cultivation, and, in my opinion, the scanty crops he has grown on it have lessened its value."

central or western Kansas, for enough

cannot be raised to support life. Here

is an extract from his Times' letter:

It is strange that men will talk in the face of facts which prove the falseness of what they say. The assessors' returns, made from year to year, tell a story of continued growth. The State is twenty-seven years old, and our taxable property at a 30 per cent. valuation, amounts to \$300,000,000, and more railroad mileage was constructed in Kansas in 1887 than in any other State of the Union. Western Kansas is not as good a grain-growing region as eastern Kansas, or as Missouri, or Ohio; but grain is raised there, and it produces many crops in abundance, as sorghum, rice corn, Kaffir corn, millet, and vegetables of many varieties. Western Kansas is a good stock country, and the farmers there are fast learning to adapt themselves and their work to the peculiarities of the climate. Trees do grow in that region; trees grow well anywhere in Kansas, if they are properly cared for. Last year was hard on people in many places in some of the older States. Illinois suffered more, in comparison, than Kansas did.

We have had reverses in Kansas, as people have everywhere; but with all our misfortunes our population and our wealth have increased in a manner unparallelled in the history of settlement. Individual cases of hardshipmany of them-have occurred and will half tons of it in making sugar, the continue to occur; but they are not the measure of our condition. Kansas is prosperous, and the facts are present in overwhelming abundance to prove it.

THE LAMP IS STILL BURNING.

"While the lamp holds out to burn, th: --- " you know the rest. A few of 'o 52" on their papers, failing to avail themselves of our extension of time a month in their interest—to January 31, will miss the regular visit of the KAN-

not to be left comfortless on that ac- ten or eleven pounds.] count. They can still return by taking year to receive small sums—any amount you please-and credit them to the senders at yearly rates. Ten dimes, four quarters, two half dollars-any way to make up the dollar during the year. We want all our old friends with us. We have several thousand new ones this year, and we want a great army with us in the end. This will be a good crop year. Let us stay together.

TWO DOLLARS A TON.

Is that enough for sorghum cane raised for sugar-making? The average crop on good land is ten tons per acre. Is twenty dollars an acre enough for such a crop, or for any crop? An equally good crop of corn would becan prosperity be found. He warns the say fifty bushels per acre, and corn can be made worth forty cents a bushel by putting it into milk, butter, pork, mutton and beef. There is twenty dollars for corn fed on the place, leaving all the fodder, which is worth as much as two tons of good hay-ten dollars more; in all thirty dollars and not a pound of the erop taken off the farm except in the most concentrated form. It requires as much labor to raise cane as it does to raise corn, and if corn is worth thirty dollars an acre there is no use in raising cane at twenty.

The Parkinson works at Fort Scott paid two dollars a ton for the entire crop, the seed amounting to an average of two bushels to the ton of cane as it came from the field. The seed is not used for making sugar, but it is worth as much as corn for feed. Farmers could remove the seed as easily as they husk corn and a good deal cheaper, so that if they would retain the seed, selling only the topped cane, they would have about as much profit from an acre of cane as from an acre of corn, provided the topped cane is sold for as much as the whole of it is at present.

Improved appliances in sugar-making have reduced the operation to a simple certainty, and if it be true that 75 pounds of sugar to the ton of two-dollar cane will yield a fair profit to the manufacturer, as Col. Colman, Commissioner of Agriculture, says it will, the actual yield of 125 pounds of sugar would justify a much higher price for cane. At any rate the seed might be left with the farmer, the factory taking the headless cane and paying a reasonable price for that. What is needed is a fair division of profit between the farmer and the manufacturer.

Let us look at the facts in a businesslike way. A ton of cane as it is taken from the ground may be divided into The wool clip of 1886 is given as three parts, thus: Leaves and sheathes 2,664,319 pounds. The cheese product That which is used for making sugar tity is put at 27,610,010 pounds. and molasses—the topped cane clean of leaves and sheaths, is 75 per cent. of the entire cane. Taking ten tons of whole cane as the average product per acre, the factory would use seven and a other two and a half tons being leaves Can the factory afford as much for the seven and a half tons as it has been paying for the ten tons? And if so, will that be a fair price?

Prof. Cowgill, in his report on the Fort Scott sugar works, says seven and a half tons of topped and clean cane our old friends, 1887 subscribers, with (the product of an average acre) will yield 750 pounds of sugar and 1,000 pounds of molasses. If the sugar is sold at five cents a pound (\$37.50) and the molasses at two cents a pound (\$20) SAS FARMER next week, (unless in the we have \$57.50 for the whole product. has satisfied him on that score. He meantime they renew their subscrip- [The Fort Scott works sold sugar at 52 tion) because their names are dropped cents a pound and molasses at 20 cents 1,514,548.

WHISTLING AGAINST THE WIND, from our mailing list. But they are a gallon. A gallon of molasses weighs

Mr. Manager Parkinson, in his report advantage of our standing offer this of the actual operations of the works, puts the actual cost of working up a ton clean cane at \$7.50, which sum deducted from \$57.50, value of the manufactured product, leaves \$50 gross profit on an acre of cane (ten tons). This, as every one knows, is not net profit, for the expense figures above given include only the actual direct and immediate cash outlay in the daily working of the factory, as labor, coal, salaries, insurance, and sundry necessary expenses, taking no account of the capital invested, interest, taxes, etc., nor of the fact that only seventy days of the year were included in the run.

There is enough in these figures, as their results impress our minds, to justify the factory in paying as much for the topped cane of an acre (leaving the tops with the farmer) as it now pays for the whole cane on the same ground; that is to say, pay two dollars for the topped stalks of a top of whole cane; in other words, two dollars for 1,500 pounds of topped cane.

We had not given this particular part of the subject any thought until our attention was directed to it by correspondents. Farmers are entitled to their full share of the net profits of the business, and they ought not to accept anything else. We incline to believe, since studying the figures, that when the business becomes well established, and suitable machinery is perfected, good cane will be worth more than these figures show. The factories will purchase land and grow the cane themselves whenever farmers demand more than that will cost.

Report of State Board of Agriculture.

Major Sims' report for the quarter ending December 31, 1887, contains Prof. Cowgili's sugar report, an article on sorghum as a forage plant, and gives many statistics concerning population, farms, live stock, crops, etc., papers on miscellaneous subjects, tables showing vacant public lands, financial condition of fair associations, meteorological information, etc., etc.

The population of the State March 1. 1887, was 1,514,548.

The wheat crop of 1887 is given at 8 616,244 bushels winter wheat, and 662,257 bushels of spring wheat, making a total of 9,278,401 bushels. Corn is put at 75,791,454 bushels; rye at 1,926,335 bushels; oats at 46,727,418; Irish potatoes at 9,178,240 bushels.

Live stock on hand March 1, 1887: Horses 648,037; mules and asses 89,957; milch cows 692,858; other cattle 1,568,-628; sheep 538,767; swine 1,847,394.

200 pounds; tops 300 pounds; stalks, for the year ending March 1, 1887, was that is clean cane topped, 1,500 pounds. 496,604 pounds; and of butter the quan-

> Value of poultry and eggs sold during the year is stated to have been \$1,757.508. Bearing fruit trees: Apple 4,746,670; pear 118,880; peach 4,330,265; plum 487,219; cherry 1,073,354.

> Kansas City has developed a wonderful live stock trade. By courtesy of Mr. E. E. Richardson, Secretary of the Stock Yards company, we have the figures for every year since 1871, showing receipts and shipments of different kinds of live stock. To show the aggregate growth, we give the figures for the first and the last years of the period:

Horses and p. mules. Sheep Hogs 4.527 209,956 41,036 2,423,262120,827 809 29,690

The average weight of hogs received in 1887 is 226 pounds.

Population of Kansas March 1, 1887, as shown by assessors' returns, was

THE LAW OF USURY.

An important case, involving a construction and enforcement of the law of usury, was decided in the United States District court at Augusta, Ga., recently. A citizen of Georgia named Gay borrowed money through an agent, giving notes for about 40 per cent. more than the amount of money he actually received, giving interest notes, also, on the full amount, stipulating, as usual in such cases, that should he fail in any of his promises, the whole debt should become due, etc., etc. The agent drew all the papers in his own name and immediately endorsed them over to his principal-a money-lending company in Connecticut.

Mr. Gay is a farmer and mortgaged his farm to secure payment of the notes. Crops failed and he asked an extension of time on that account; but suit was brought on the notes, and he plead usury as to all money in excess of the amount he received, offering to confess judgment for what he had the use of, together with lawful interest notes and mortgage were purchased by them from the man who (they claimed) acted as the agent of the borrower, and that therefore they were not chargeable with any wrong which might have been done by him; that they were innocent purchasers.

The court held the contract to be usurious as to the excess over and above what was actually received by the borrower; that the agent was the agent of the lender and not of the borrower; that the company are not innocent purchasers, that they were the real lenders, that they acted through the agent and are therefore justly responsible to the borrower for every wrong committed by their agent in the

The jury returned a verdict in accord with the court's rulings on the law as above stated.

That is a correct construction of the law, and it ought to be published broadcast. A great many people-borrowers -have come to believe that the agent from whom they borrow is their agent, and that when he indorses the papers over to the persons who really furnish the money, they are at the mercy of innocent purchasers. Many times in these columns have we told our readers that these money-lending agents are acting for other persons who have money to lend, and that what they do in such matters is done for their principals-the lenders. We have many times written and published the law and the truth that the amount of money actually received by the borrower, with legal interest, is all that can be lawfully collected. Every cent beyond that is usury and cannot be legally recovered, no matter what kind of papers may be signed or what stipulations are written. The truth is better evidence than a written paper stating a falsehood.

Work in Congress.

A great many bills have been introduced, but nothing on tariff reform has yet been presented by the committee on ways and means.

Among the more important bills since our last report may be mentioned these: To provide for free coinage of silver and retire national banks; to repeal the internal revenue laws; to increase salaries of cabinet officers and of judges of the supreme court to \$15,000 a year; to Planter; J. B. Root & Co., Rockford, allow a clerk to every member of Con- Ills., seed farmers and dealers; James gress at public expense; to prevent aliens from acquiring public lands; to abolish the tax on oleomargarine; to prevent the formation of trusts; to

and reserved, continuing the desert land law and repealing the timber-culture act; to tax lard compounds; to pension poor ex-soldiers (the dependent pension bill;) to admit Dakota and Wyoming as States; to increase the efficiency of the militia.

About Pruning Orchard Trees.

Mr. E. Eicholtz, of the Western Home Nursery, Detroit, Kas., writes us -"Experience teaches me that this is the proper season of the year to sharpen up your saws and pruning knives and go forth into your orchards and cut out all wood that is of no use to the tree, or in other words when your trees are growing in tops so much as to exclude the sun. They should be cut out so as to let the air have free circulation and give the sun a chance to shine among the branches. It requires plenty of sunlight and air to produce fine apples, peaches, pears, plums and cherries. Cultivate all young orchards in corn, but do not plant potatoes, as it will do thereon. The company replied that the you more harm than good. Always turn your furrow toward the tree, not from it; do not plow deep near the trees, as you will cut off the fine fibrous roots that the tree has sent out in search of food for its growth. Give your orchards good care; it will pay you better than any other labor you can perform. It requires pluck and energy to make a good orchard.

Rainfall in Kansas.

From an address delivered recently, by Prof. Snow, before the Douglas County Horticultural Society, we extract the following paragraph as being of special interest at this time:

"Eastern Kansas averages of rain 34.7 inches, while the precipitation in Western Kansas is only from 10 to 15 inches. The settlement of the country and the cultivation of the soil cannot increase this rainfall to any great extent in one generation. The rainfall kept at Fort Leavenworth by the government from 1836 to 1874, gives the following: In the first half of this period, viz., the nineteen years from 1836 to 1855, when Kansas was first settled, the average rainfall was only 30.4 inches. In the second half of this period of thirty-eight years, which transpired after the settlement of Kansas, the rainfall was 35.7 inches, an increase of 5.3 inches. This decided increase was tne result of settlement of the country and breaking up of the soil. The past two years of drouth have not in any way changed the climate. We shall likely have all the rain we need for the next two years. In Kansas only one-tenth of the rainfall occurs in the winter months, while the Eastern States have nearly half their rain in that season. It is certainly a great advantage to the farmers to get most of the rain during the growing season. In Kansas the cloudiness 18 only 44 per cent; in New England it is 64 per cent. and in England 73 per cent, This is the reason that it is difficult to grow Indian corn in New England, and impossible to grow it in England."

Catalogues come in by every mail. nolds & Allen, Kansas City, Mo., dealers in seeds and farm implements; Aspinwall Manufacturing company, Three Rivers, Michigan, advertising their machinery, more especially their Potato W. Bouk, Greenwood, Nebraska, seed corn, wheat, oats, potatoes and garden vegetables grown by himself; Samuel Wilson, Mechanicsville, Bucks county, change the time of meeting of Congress Pa., "fresh and reliable" garden, field, to December 31; to revise and modify and flower seed; Frank Ford & Sons, the public land laws, classifying the "Sunnyside," Ravenna, Ohio, seeds,

lands as agricultural, timber, mineral small fruit plants, trees, Crandall currant, seed potatoes, grape vine, etc. John A. Salzer, La Crosse, Wis., plants and seeds; Braslan, Goodwin & Co., Minneapolis, Minn., northern-grown farm, vegetable and flower seeds: Buist's Garden Guide, 924 Market St., Philadelphia, Pa.; S. F. Leonard, 149 West Randolph St., Chicago, Ills., garden and flower seeds. A request for any of these catalogues, written on a postal card and forwarded, will be granted by any of the persons or firms named

Is the Rainfall Increasing?

Prof. Harrington, in the December number of the American Meteorological Journal discussed the rainfall problem, and concluded about this way. "During the last thirty years on the eastern border of the Western plains, between latitudes 35 deg. and 45 deg., i. e. from Arkansas and Indian Territory north into Minnesota and Dakota, the annual rainfall has increased perceptibly. This increase has been greatest in Iowa and Minnesota along parallel 45 deg., where the tide of immigration set in earliest, and has been most constant. Here the line of equal rainfall appears to have traveled westward about five miles a year; along parallel 40 deg. the westward movement has been slower; along parallel 35 deg., still slower."

Sorghum and Millet Mixed.

The Messrs. Gfeller, of Dickinson county, called at this office two weeks ago, and in the conversation which followed, we learned some interesting facts concerning the value of sorghum and millet mixed for stock food. They sow the mixed seed broadcast by machinery, about the first of May, and cover with light harrow. They cut the crop about the time when the millet is heading—the sorghum is not then quite in head; cut with mower and cure same as hay.

As to the quantity of seed and the proportion, they sow about three pecks of the mixture to an acre of ground, and in mixing they use a little more than one-half by measure of sorghum. They have used this mixture very satisfactorily and recommend it to others.

Some Silk Figures.

From Mrs. Davidson, silk culturist, Junction City, Kas., we obtain some facts and figures which she collected from the American Silk Journal.

"The American silk manufacture for the year just closed gives evidence that the industry is steadily expanding, and the output for the present year will exceed that of any previous one. In proof thereof we have an increase in the importation of raw material, additions in machinery, and the constant employment of our mills the entire year. The importation of raw silk at the ports of New York and San Francisco, for the eleven months ending November 30, '87, were 30,298 bales, at a value of \$19,726,050. The increase this year over the last is 867 bales and \$705,653 in sales.

"The value of manufactured silk goods brought into the port of New York during the eleven months ending November 30, 1887, was \$29,054,869. The increase this year over the last is \$2,848,266, or a little over 9 per cent.

Hon. Samuel J. Crawford, ex-Governor of Kansas, and now President of the Kansas Farmer company, has been engaged about twelve years in protecting the interests of this State in public lands granted by Congress in the enabling act. June 28, last, Mr. Secretary Lamar overruled the practice of his predecessors as to Indian lands, holding that the law authorizing the payment to the State of Kansas of 5 per

cent. of the proceeds of the sales of public lands in that State did not apply to Indian lands. Upon the request of Senator Plumb, the Secretary asked the Attorney-General for an opinion as to the proper interpretation of the law referred to, and Governor Crawford argued the matter before the Attorney-General. His brief, an able and conclusive argument, now lies before us. It would be strange if, at this late day, so old, so lawful, and so common a practice, should be set aside as having no warrant in law.

A funny subscriber, renewing his subscription, says we do get a little agricultural matter mixed in with our politics, and he will try the paper another year, although he is taking several others. Our good friend knows that we give more agricultural matter than any other paper which is sold for the same amount of money.

Inquiries Answered.

GALL.—Has a horse got a gall? If so, where

-The gall bladder is connected with the liver—sometimes imbedded in it.

GEORGE'S LAND TAX SYSTEM. - A spondent asks for a statement of Henry George's land tax system. The request will be granted soon. We have given the information several times and will do so again when present pressure of other matter is worked off.

'CATTLE AND DARRYING.—In reading your article on the difference between Galloway and Aberdeen-Angus cattle I noticed your reference to a work called "Cattle and Dairying," published at Washington, and wishing to know how to get it. I write to ask how I can get it. Please answer and oblige. We have taken your paper ever since we came to Kansas.

—The book was issued by the Department of

State at Washington. Write to the member of Congress from your district, Hon. S. R. Peters, and ask him to get the book for you. Say to him that the KANSAS FARMER referred you to him.

SWOLLEN LEG.—What is the matter with my mare, and what shall I do for her? She will be 3 years old this spring and never has been worked. Her left hind leg is badly swollen on the knee; it is swollen on the inside and out and has been for some time. She is not lame, and has a good appetite.

-It is caused, probably, by the feed, though it may be a sprain. . If affected part is warmer than other parts of the body, apply bandages of cotton cloth wet with warm water to reduce the inflammation and feed some laxative food. After a few days use any good liniment. If the place is itchy rather than sore, change feed at once to bran mashes and that character of food in order to loosen the bowels and

QUINSY.—I have two hogs with a large lump under their throat, and I have had several affected this way in the last six months. I opened some of them; two I opened got well, one died. If not opened as soon as they come, they grow to be very large, and the hog pines away and dies. Please tell me in the next paper what the disease is and how to cure it.

—It is probably outpay or afrancies in face.

-It is probably quinsy or strangles, inflammation of the glands of the throat-tonsils. As soon as the swelling is observed, scarify the parts well so as to draw blood freely, and foment the parts with cloths wet with hot water and partially wrung out, repeatedly ap-plied to induce bleeding and reduce the inflammation." Use the following injection: Sulphate of magnesia, 4 oz.; oil of turpentine, 2 dr.; soap-suds, ½ pt. Swab the tonsils as far back as can be reached with equal parts of lard oil and turpentine, or if the hog will eat, give doses of two teaspoonfuls each in a pint of gruel. Use a feather tied on a small stick for swabbing. The hog must be thrown and his mouth held open while this operation is

Topeka Weather Report.

Sergeant T B. Jennings, of the Signal Service, furnishes the KANSAS FARMER weekly with detailed weather reports. We make an abstract for publication and file the copy for reference, should we ever need details.

Abstract for the week ending Saturday, January 28, 1888:

Temperature.-Highest at 2 p. m., 540 on Saturday the 28th; lowest at same hour, 18° Monday the 23d. Highest recorded during the week, 54° on Saturday the 28th; lowest, 5° be low zero on Sunday the 22d. Killing frosts every morning.

Rainfall.-None-neither rain or snow.

David Whitmer, the last witness to the divine authenticity of the Book of Mormon, who has been in feeble health for some weeks past, died at Richmond, Mo. A few days be-fore his death he called his physician to his side and told him that his testimony as re-corded in the Book of Mormon was true.

Borticulture.

OROHARD OULTURE.

Read before the State Horticultural Society, at the December meeting, 1887, by George Olivant, Conway, McPherson Co., (Central District).

Although residing, as I do, in a section of the State comparatively new in the field of horticulture, and having been troubled with all manner of drawbacks, such as droughts, grasshoppers, and all the attendant evils of hot winds, sun-scald, borers, and the multitude of plagues in that line, we have nevertheless come to the conclusion that horticulture can be successfully and profitably carried on within the confines of the once Great American Desert. The only requisite is a determination to succeed by taking advantage of our own successes and failures, following the course marked out by those who have been successful, and profiting by the experience of the members of this society.

The subject of orchard culture is a difficult one to write on. The question first presented to one's mind is, where shall I begin, and on what part of the subject shall I stop? If we are to suppose that every one has planted the orchard right, then we would be justified in commencing at the cultivation of the orchard proper; but that would be assuming too much; for when we look around and see some old farmers planting orchards, we almost come to the conclusion that men do not live to learn, but to forget. It is rather discouraging for practical horticulturists to be asked to give advice on the subject, and then the would-be learner take exactly the opposite course. Thousands, yes, I might say hundreds of thousands of fruit trees are planted every year and then left to take care of themselves. Generally they are planted too close for any use, appearing to a casual observer that the object is to save the land, (because it is so scarce), one reason being that the planter wants to fill up a corner, and he does not think there is much profit because he has to wait several years before he receives any return.

Of the orchard fruits the apple is the most important in the central portion of Kansas, and upon that I shall speak more especially. The selection of the site is the first to be thought of, and this is one of the most important things to be considered. It should be located on a gentle slope facing the north or planted close to the house, so that your can have constant supervision over it. Any of our Kansas soils are suitable for this fruit.

The next thing to be considered is the time of planting. I prefer the spring, and am satisfied that is the best time for general planting. Fall planting can care and attention than is generally

Distance apart.—Apple trees should be planted at least thirty feet apart each way, and on rich bottom land forty feet is better. Some practice close planting, and remove part of the trees planted twenty feet; crabs twenty feet; troubled with borers in consequence. sixteer to twenty feet. Peaches-well, be disappointed.

Plow the ground thoroughly and sub-

guide-board in every case. Two-yearold trees are the best. The selection of varieties is another important matter. I can only repeat what has been often said, namely: Experimental planting ling moth must be attended to in season should be done on a limited scale, unless there is plenty of money and horticultural enthusiasm to back up an undertaking of this kind. For home use select several varieties; for market purposes only a few of those which the market calls for, taking the voted list of this society as a guide. Don't plant particular varieties because they did well where you came from and are your favorites. Be sure and select varieties so that you may have a succession from early summer to winter.

Be careful in planting and make the holes large enough to take the roots in without crowding, cutting off all bruised and broken roots. Do not stick them in the ground and only half cover the roots and then wonder why they don't grow. When planting, dip the roots in water, so that the fine dirt will adhere to them, and press the dirt firmly around them. By careful planting you will be almost sure of a good stand and be well rewarded for your trouble.

Wind-breaks.-After your orchard is planted, plant five or six rows of forest trees around the orchard, on the south and west sides especially. These should be planted about four rods from the fruit trees, and the rows should be ten or twelve feet apart, the trees eight or ten feet apart in the rows. High, rapidgrowing trees are the best for this pur-

Cultivation .- The ground should be kept clean and well cultivated. I prefer clean cultivation, not planting other crops in the orchard, as the trees in central Kansas generally need all the moisture they can get; it ought not to be absorbed by some other crop. Be sure and keep down the weeds. If you must plant another crop in the orchard for the first few years, plant corn or potatoes, some crop that needs constant cultivation. Corn is the best crop as it affords protection to the trees from the wind. Cultivation should not continue later than the middle or last of July, as late cultivation stimulates a fall growth which does not ripen up well, and is liable to winter-kill. Care should be taken to prevent the depredations of rabbits. As a safe protection take some wire gauze cut in strips about six inches wide and fourteen or sixteen inches long, bend it around a small stick so that it will spring together, and then place it around the trees. The cultivanorthwest, if possible; it should be tion should be continued until the trees commence to bear, which will be in from five to seven years, according to varieties, when the orchard should be seeded to red clover. For the central and western portions of the State I should recommend a light mulch around the trees for at least eight or ten feet. This will have the effect of retaining be made successful, but it requires more the moisture which you stimulate at other times by continual cultivation, and trees so treated are not affected much by drought.

Pruning is a necessity, but not to the extent to which it is very often carried. The pruning should commence when the trees are young. They should be as they come in bearing; but it is rather allowed to branch within two feet of against the inclinations of most people the ground so that the branches will to cut a bearing tree down after wait- protect the body of the tree from the ing perhaps six or eight years for it sun, and as a result few trees will be to come in bearing. Pears should be found to sun-scald, and they will be less plums sixteen to twenty feet; cherries Prune so as to encourage one central stem with branches every eight or ten don't plant them if you don't want to inches, cutting out all intermediate branches. Shape the tree when it is young, so that when it is grown no

should at all times be allowed to take its course as much as possible.

To raise good fruit we must always be on the lookout for insects, the codwith a good dose of London purple. The canker worm must be treated to the same. Keep a constant lookout for borers and other enemies of the fruit and tree, and you will be well rewarded for your trouble with an abundance of good fruit.

OUTLOOK FOR HORTICULTURE IN THE ARKANSAS VALLEY.

Report of committee presented to the State Horticultural Society, at the December meeting, 1887.

GENTLEMEN: -As far as our limited observations extend, orchards that have been established a few years, the roots of the trees penetrating the subsoil below, have withstood the droughts of 1886 and 1887 remarkably well. Diseased trees have succumbed; many young apple trees, where not properly cultivated, have been destroyed by the round-headed borer—the most serious loss since that of 1874, when fully onehalf of our pioneer orchards were ruined by them. Owing to the absence of heavy fall rains, the condition of fruit buds is good to withstand the extremes of a severe winter, no premature swelling of the peach buds is observable, the reverse of their condition the autumns of 1885 and 1886. From the dry condition of the soil, and the perfect ripening of the wood of the pear, no apprehension need be felt from loss by blight the season of 1888; bactaera is with us a result, not the cause. Fully one-half of the older apple trees now in orchard in this section of the State at least will decay and be removed before a score of years elapse, the result of improper training from the first year's growth of the young tree in our overcrowded nurseries, and faulty training in the young orchard by the planter. Young trees should be trained with a main central stem, the limbs to radiate from this in all directions, as near horizontal as possible as they leave the stem, never allowing more than one limb to start from the same vertical point on the stem. When the trees are young, start the first limbs fifteen to eighteen inches from the ground; these lower limbs can be removed as the tree gains age and top growth. Thus started it will obviate that leaning to the southwest in planting and the unnatural forcing of the growth of the lower limbs on the northeast side of the tree. Next to varieties adapted to our climate, the subject of proper training is paramount to everything else. Ignorance on this subject among tree-planters is astounding, as can be verified in nearly every orchard and yard. "Plant thick, but don't thin too quick." Do not plant on a ridge, but on the lower slopes of the uplands. The profitable apple orchards are those whose roots reach plenty of moisture, and are comparatively free from insect

orchards, I will note the conduct of a bardston, good and prolific, but shows

badly in dry seasons, often a total loss; Wagener, is one of the earliest bearers, and should be in every family orchard for fall use; Fall Pippin, not profitable; Jonathan, Smith's Cider, Grimes' Golden, Rome Beauty, McAfee, Stark, all good in tree and bearing; Winesap, if properly kept in shape is doing well on moist soils, complaint is made that it is failing on dry uplands; Ben Davis, not very prolific; White Winter Pearmain, is late in bearing, some twelve years, but the fruit resists drought and winds; season late fall and early winter, with us a noble fruit; Missouri Pippin, early and prolific, hardy as a crab, and as uncouth of growth in nursery and orchard, the most profitable apple for the southwest in the whole list; Kansas Keeper, good, one of our best late winter apples; Willow Twig, Golden, Russet, King, Northern Spy, Vandivere Pippin, and Red Astrachan, are slow and shy bearers, and unprofitable; Rawle's Janet, is a failure, the fruit cracks and soon rots under the hot suns; Yellow Bellflower, is a failure in tree on the uplands.

The grape promises to be one of our most profitable fruits for the Arkansas Valley, with an elevation of from 1,000 to 4,000 feet above sea level. The excellence of the fruit under our sunny skies and increasing accessibility to markets for choice table grapes will insure extensive planting in the near future. The Concord constituted ninetenths of the first plantings, which, with good culture and pruning, have yielded large crops for home use and local markets. Of other varieties in fruiting, the Martha, Pocklington and Moore's Early are shy bearers and should be discarded with us. Elvira prolific, but cracks as bad here as in other sections. Iona, Ives, Diana, Perkins, Catawba, Goethe, Brighton, Delaware, Worden, Lindley Cynthiana, all good bearers and hardy; Prentiss and Ladytender, Herbemont, good on limestone soils. Many new varieties are being tested by our growers to find the best for this section. Trial alone can determine what is best for any locality. Deep planting of the grape to overcome drought is worthy of trial. California grape-growers open a hole in the soil with an iron bar, some sixteen inches in depth, drop in a sixteen-inch cutting, follow with a water can (minus the rose) and pour in just enough water to settle the soil around the lower bud; this is to root the lower bud only. If upper roots are formed later, they are destroyed by the plows and cultivators. This deep rooting is done to overcome the effects of their dry summers (no irrigation is given to the grape) or annual droughts. Their vines do not cast their leaves prematurely or the fruit shrivel under the hot sun.

Small fruits.—The winter-killing of the canes of mulched blackberries, and those where cultivation was given only in the early part of the season, has been the common experience the last two From observation and inquiry among seasons; while upon the other hand, our orchardists, and trial in my own every plantation, either new or old, where proper cultivation was given, few leading varieties of apple planted have passed through unscathed and by the pioneers here, brought from lati- have netted to their owners handsome tude 41 deg. 30 min. north. Red June, returns. In the neglected plantations Cooper's White, Hightop Sweet, Kes- the canes have been checked by the wick Codlin, early and prolific bearers; drought; then when the fall rains set Early Harvest, tardy in bearing, but in the canes take a new grewth, and good with age; Benoni, ditto; Maiden's are full of sap, failing to harden up Blush, Fall Wine, Fameuse, good; properly before winter sets in. Thorough Rambo, successful only in the Arkansas | cultivation through a drought, to keep Valley, and then does not attain that the canes in a normal growing condiexcellence that it does in northern sec- tion; or mulched heavy about July 1, tions; Late Strawberry, Wine, Lowell, the mulch to be removed as soon as the good, hardy, but shy bearers; Hub- fall rains set in, to let the canes harden up for winter, will remedy the evil. soil it if it is heavy land, and give the large branches will have to be removed. signs of failing in tree, it will not stand Kittatinny continues to lead the list trees every chance possible. Plantonly All that is required is to let the sun- a check under our hot suns; Domine, for this section. Of raspberries, Souheyoung, thrifty trees; this is the safe light in the tops of the trees. Nature very prolific, tree hardy, but fruit drops gan, Reliance, Cuthbert, Iron-Clad,

Turner and Gregg are good; the last is most generally cultivated by the farmers for home use. Of strawberries. Captain Jack, Bubach, Kentucky, and Mt. Vernon, withstood the drought the best; next best were Miner, Jessie, Downing, Crescent, Connecticut Queen and Parry. Those injured severely were Lacon, Atlantic, Windsor Chief, and Jewell. Serious and often total loss of the strawberry has occurred this season in the farmers' gardens and city lots.

The best implement for use in orchard and fruit plantations is the Planet Jr. cultivator, provided with a gauge wheel and three double-bladed shares or cot ton choppers; it is light and can be used by a boy of 10 years; it is indispensible to keep down the suckers in the blackberry and raspberry plantation; it leaves little work to be done with the

In conclusion: From experience we think that the lack of cultivation, with improper training, are the only obstacles to large and continued yields of luscious fruits on our new soils. Persistent and thorough cultivation must be given; that will maintain that equilibrium of plant growth during our hot summers, furnishing the soil with a blanket of soil mulch-often only dry dust, but effective to prevent evaporation of the moisture below from the roots of tree and plant-is the lesson taught by the droughts of 1886-87.

JACOB NIXON.

Kellogg, Cowley Co., Kas.

Mr. Williams' Evergreens.

EDITOR KANSAS FARMER:-Just as I expected. After reading your answer to an inquiry in the FARMER of the 12th January of a correspondent wishing to know of some one that could furnish him with cedar or pine seed. I have received one letter already inquiring my price of seed, also the modus operandi of propagating eyergreens from the seed, etc.; and expecting more to follow soon I will avail myself of the shortest and easiest way of answering all such inquiries-by your permission-through the columns of the "old reliable" KAN-SAS FARMER by saying, I am not in the tree seed business. I think too much of my cedar grove just north of my dwelling to denude it of its seed; preferring to set at my window these cold winter days and watch the red birds as they hop from branch to branch feeding on the seed and then hieing away to my artificial grove and the native groves near by, and in nature's own way, there planting the seed that is sure to grow.

As regards my experience in trying to propagate evergreens from seed, I will say that I have made an entire failure so far, and I have tried it several times. The birds can beat me ninety-nine times to one.

Having a little space left after the foregoing items, I will say that I am more than pleased with the improvements I see in the old FARMER from year to year, especially the improvements of the present volume. And I have been a reader of the KANSAS FARMER ever since 1863, when Judge Adams first started the paper. I wish every farmer in Kansas was a patron and profit themselves, as I am sure they would, by reading its pages.

In a late number you give a cut as well as a description of a weeping mulberry tree. If, as the cut represents it, it is a beauty—but then, I have a weeping pear tree, and I think I will give a description of it some time in the future. J. W. WILLIAMS.

Hoyt, Jackson Co., Kas.

Mustang Lin'ment Mustang Liniment MEXICAN MUSTANG LINING T. T. applied vigorously is death to Swinney, Wind Falls & Sore Backs: MEXICAN MUSTANG LINIMENT CURES all aliments of Horses, Mules and Cattle. Outward treatment.

The Poultry Hard.

Roomy and Clean Quarters.

The first cold spell that comes is the worst on poultry, for they are not fully prepared for it, and it goes hard on them if they do not have a comfortable place to go in and roost at night. The change from moderate heat to severe cold is often experienced in our northern climate. Such sudden changes have a depressing effect on all animal life, and tend to bring on colds, catarrh and croup in fowls. Fowl houses are usually too small for the number that is kept. Many well-meaning poultrymen conceive the idea, begotten of our grandfathers' days, that the greater the number of warm-blooded animals in a given space, the greater the bodily and surrounding heat, consequently, when cold weather sets in, in place of making the house warm and comfortable, and allowing only enough of birds for individual comfort, too often they are crowded and packed like herring in a keg, regardless of sanitary laws and the experience of every old breeder.

The house should be large and well ventilated for the number that can conveniently be accommodated, for when the ground is covered with snow, as it is the greater portion of winter, the fowls are confined and do not go outside all day, and need more attention, and the keeper should bear in mind and not forget it all through the year, that a house large enough for fifty birds to roost in nights, is by no means large enough for them when confined for months by day as well as night. No matter how thrifty the fowls may be when gathered from their runs, if they be crowded into small quarters for winter, and confined for months at a time, they can hardly escape disease, and a large portion may die.

Cleanliness in and about the fowl houses is absolutely necessary for the maintenance and preservation of health and prolificacy. Our experience and observation bring to mind sad recollections of habitual neglect, and we are forced to say that not one hennery in ten receives proper attention one year with another. There are far too many houses that do not get but one or two "cleanings" during the year. droppings of the fowls accumulate like ant mounds, till the escaping gases poison the blood and derange the whole system. Common sense should impress on the negligent breeder that uncleanliness is the greatest evil attending the housing of poultry. Fresh air may restrict the spread of the disease for a short time, but when the doors and windows of the henneries are shut up in winter, every breath of air that is inhaled by the fowl is laden with noxious gases. Willing hands, with brush and scraper, can do more good in a few hours toward the thrift and well-being of the fowls, than all the "chicken powders" in existence.-Poultry Monthly.

Poultry Notes.

Better practical fowls, better general-purpose fowls, better laying fowls, better table fowls, better ornamental fowls-these are oggibilities of

The fact that it has the one or more qualities which no other fowl possesses, or possesses in a less degree, makes it the fowl of all others for certain people. They desire just these qualities, and if they were eliminated they would no longer care for the fowl. Argument with them would be useless. The fact that ninety other varieties were really superior to their one would not

convince them. They know, or think they know, which amounts to the same thing, just what they wish, and unless they can have that they will have nothing.

The best way to get rid of lice in the hen house is to thoroughly saturate every portion with strong boiling soapsuds, first adding a pint of kerosene to every bucket of the suds. It should be forced into every crack and crevice, and also on the underside of the roof, as well as on the walls.

The Dorking is a better table fowl than the Leghorn, but the Leghorn will lay more eggs than the Dorking. The Brahma is a better fowl for the villager, but it lacks the beauty of the Game. The Hamburg is a wonderful layer, but its eggs are smaller and its body lighter than the Plymouth Rock.

The cost of a pound of pork is about 6 cents, while a pound of chicken costs about 8 cents; but the prices obtained for the chicken are so much greater that the profit is nearly twice as much as that on pork, which may be put down to the fact that the chicken is also a producer of eggs as well as

The farmer or other poultry-raiser who keeps from fifteen to fifty fowls had better have nothing to do with incubators, but trust to hatching his chickens under hens. To do so economically, two hens should be set at the same time, giving all the chicks when hatched out to one hen and resetting the other on fresh eggs.

The White Leghorn is more delicate than her brown Italian sister. She runs to eggs in the summer, but when winter comes the dainty little thing stands around and shivers for fear her great, drooping comb will freeze. The plumage of the White Leghorn is a beautiful creamy white, while the comb and wattles are fiery red.

Brown Leghorns are the most beautiful of the Leghorn class. They are acknowledged to be the best layers in existence, laying, if properly bred, as large an egg as the Asiatics. They are of medium size, and non-sitters. Every feature connected with them is attractive and pleasing. They are great foragers, and in the summer, if given their liberty, need but little feeding. For the table the Brown Leghorn is unexcelled, the meat being delicate and sweeter than that of larger fowls.

Silk and Satin Ribbons FREE



willing to dispose of in bulk, for a small fraction of my one capable of purchasing largely, we institute iting in our obtaining the entire stock of the Rtbbon Remnants of several of the houses, who imported the finest goods. These lepended upon as superior to anything to be found to the property best stores of America. Yet they are goods very best stores of America. Yet they are goods are the stores of t will send it to you for a trial year, and will also sen! Free a box of the ribbons; 2 subscriptions and 2 boxes, 45 cts.; \$2 subscriptions and 4 boxes, \$3.\$ to ne-cent postage stamps may be sent for less than \$3.\$ the \$4.\$ the \$4 subscriptions and 4 boxes for only elected the sent for less than \$4.\$ the \$4 subscriptions and 4 boxes for only elected the sent for the s

HUMPHREYS' HOMEOPATHIC VETERINARY SPECIFICS



For Horses, Cattle, Sheep, Dogs, Hogs, Poultry. 500 PAGE BOOK on Treatment of Animals and Chart Sent Free.

Stable Case, with Specifics, Manual, Witch Hazel Oil and Medicator, 87.00 Price, Single Bottle (over 50 doses),

Sold by Druggists; or Sent Prepaid on Receipt of Price. Humphreys' Med. Co., 109 Fulton St., N. Y.



Thaneused two bottles of Elu's Cream Balm and consider myself cured. I suffered twenty years from catarrh and catarrhal headache, and this is the first remedy that afforded lasting relief.—D. T. Higginson, 145 Lake St., Chicago, Ill.



A particle is applied into each nostril an able. Price 50 cents at Druggists; by mail, 60 cts. ELY BROS., 235 Greenwich St., Nev

ON 30 DAYS' TRIAL

DOLLARS SAVES 10 to 60% HUNDREDS

GREATEST OPPORTUNITY!

everything you use, wear, eat or enjoy; in fact, any-thing from a pin to a white elephant can be pur-chased through us. We furnish all goods not belonging to our Dry Goods Stock at Manufactu-rers' net Cost and on our own magnifeent whole-sale and retail stock of Dry Goods, a discount of 10 per cent from our regular prices will be given. For instance, the following list of groceries will give an idea of what we may save you:

Retail Price. Our Price

of illustrations) giving first net cost, and beautiful Certificate of Membership for one year, or write

C. W. & E. PARDRIDGE, (Main Store) 112, 114 and 116 State Street,

CHICAGO.

for further particulars, enclosing stamp.
Our sole profit is advertising our Dry Goods business, and the \$2 is charged to defray incidental expenses. If, after one-month's trial, you are dissatisfied money will be readily refunded. We have no agents; all business done direct.

You are cordially invited to call.

Mustang Liniment MEXICAN MUSTANG LINIMENT Should Blyays be kept in House, Stable and Factory. Saves foes

THE MARKETS.

By Telegraph, January 30, 1888. LIVE STOCK MARKETS.

St. Louis.

CATTLE-Receipts 2,100, shipments 100. Marhet weak and lower. Choice heavy native steers \$4 40a5 20, fair to good native steers \$3 90 a4 45, medium to choice butchers steers \$3 10a 400, fair to good stockers and feeders \$200a 3 25, ordinary to good rangers \$2 20a4 10.

HOGS-Receipts 4,700, shipments 1,300. Market dull and 10a15c lower. Choice heavy and butchers selections \$5 60a5 70, medium to prime packing \$520a565, ordinary to good light grades

SHERP-Receipts 2,800, shipments 1,400. Market firm. Fair to fancy \$3 70a4 30.

Chicago.

The Drovers' Journal reports: CATTLE — Receipts 12,000, shipments 4,000. Market 10a15c lower for all grades below choice. Good to fancy, \$4 60a5 20; steers, \$3 00 a4 50; stockers and feeders, \$1 85a3 35; cows, bulls and mixed, \$1 50a3 00; Texas cattle, \$1 75a

HOGS-Receipts 26,000, shipments 8,000. Market weak and 10a20c lower. Mixed, \$5 05a5 50; heavy, \$5 40a5 80; light, \$5 00a5 50; skips, \$3 50a

SHEEP-Receipts 6,000, shipments 2,000. Market steady. Natives, \$3 00a5 50; Western, \$4 50a 5 10; Texans, \$3 00a4 00; lambs, \$5 00a6 25.

Kansas City. CATTLE-Receipts since Saturday 922. Market slow and weak for shipping and dressed beef steers, with values 10a15c lower. Cows steady to strong. Stockers and feeding steers quiet but firm. Sales ranged \$3 00a4 30 for shipping and butcher steers.

HOGS-Receipts since Saturday 6,292. Marweak and 10c lower. Extreme range of sales 84 90a5 45; bulk at \$5 10a5 20.

SHEEP-Receipts since Saturday Good muttons in demand at steady prices. Sales: 117 muttons av. 85 lbs. at \$3 75; 95 muttons av. 73 lbs. at \$3 121/4.

PRODUCE MARKETS.

St. Louis.

FLOUR-Steady and in fair demand, but unchanged.

WHEAT-Opened weak and in a fair market rallied 1/4c, and afterwards fell back, closing 1/4c below the opening. No. 2 red, cash, 801/4a 81c.

CORN-%c higher; trading fair. Cash, 46% a47c.

OATS-Lower, Cash, 30%c. RYE-Nothing doing.

BARLEY-Firm at 80a97%c.

HAY-Steady. Prime timothy, \$12 00a16 00; prairie, \$8 00a12 00.

EGGS-191/c.

BUTTER-Firm and unchanged. Creamery, 24a30c; dairy, 18a26c.

Chicago. Cash quotations were as follows:

FLOUR-Inquiry slightly improved; prices steady and unchanged. WHEAT—No. 2 spring, 75% a77c; No. 3 spring,

nominal; No. 2 red, 80c.

CORN—No. 2, 47%c. OATS—No. 2, 28a28%c. RYE-No. 2, 62% o.

BARLEY—No. 2, 88a84c. FLAXSEED—No. 1, \$1 46.

TIMOTHY-Prime, \$2 46a2 47.

PORK-814 10a14 121/2.

LARD-87 421/2 a7 45. BUTTER-Rather quiet but firm. Cream ery, 22a32c; dairy, 18a23c.

EGGS-20a22c. Kansas City.

 ${\bf WHEAT-Receipts\,at\,regular\,elevators\,since}$ last report, bushels; withdrawals, 2,525 bushels, leaving stock in store as reported to the Board of Trade to-day, 350,843 bushels There was a quiet and merely nominal market to-day on 'change, with no sales on the call of any of the different grades, either for cash or future delivery. No bids nor offerings either for rejected winter, No. 4 winter, No. 3 red winter or No. 3 soft winter wheat. No. 2 red winter wheat, none on the market. No. 2 soft winter, cash, January and February, no bids nor offerings; May, 801/2c bid, no offerings. On track by sample: No. 2 soft, cash, 81c.

Receipts at regula last report, 591 bushels; withdrawals, 1,103 bushels, leaving stock in store as reported to the Board of Trade to-day, 141,368 bushels. The market on 'change to-day was weaker but quiet, with no sales on the call either for cash or future delivery of any of the different

grades. On track by sample: No. 2 cash, 44%c. OATS-No. 2 cash, no bids nor offerings. On track by sample: No. 2 mixed, cash, 31c; No 2 white, cash, 321/4c.

RYE-No. 2 cash, no bids nor offerings.

HAY-Receipts 67 cars. Market weaker. fancy, \$9 50 for small baled; large baled, \$9 00; wire-bound 50c less; medium and poor stock steady.

OH-CAKE-Per 100 lbs. sacked, f. o. b., \$1 25;

\$11 00 per 1,000 lbs.; \$20 00 per ton; car lots, \$20 00 per ten.

SEEDS-We quote: Flaxseed, \$1 25 per bu. on a basis of pure; castor beans, \$100 for prime.

FLOUR - Market fairly active and firm. Sales: 8 cars by sample at 95c. Quotations are for unestablished brands in car lots, per 1/2 bbl. in sacks, as follows: XX, 90c; XXX, \$1 06 al 05; family, \$1 15al 25; choice, \$1 50al 60; fancy, \$1 65a1 70; extra fancy, \$1 75a1 80; patent, \$2 05a2 10; rye, \$1 40a1 60. From city mills, 25c

BUTTER-Receipts of roll fair and market steady. We quote: Creamery, fancy, 27c: good, 22a25c; fine dairy in single package lots, 16a20c; storepacked, do., 14a16e for choice: poor and low grade, 9a10c; roll, good to choice, 14a17c.

CHEESE-We quote: Full cream, twins, 13c; full cream, Young America, 131/2c.

EGGS-Receipts light and market steady as 22c per dozen for fresh.

VEGETABLES-Potatoes, home-grown, 70c per bus.; Utah, \$1 20 per bushel. Onions, red, 75ca\$1 00 per bus.; California, \$1 10a1 20 per bus. Sweet potatoes, yellow, 75c per bus. Apples, supply fair and market steady at \$2 00a3 50 per bbl.

BROOMCORN-Dull and weak. We quote Green self-working, 4c; green hurl, 4%c; green inside and covers, 2%a3c; red-tipped and com-

men self-working, 2c; crooked, 1c.
PROVISIONS—Following quotations are for round lots. Job lots usually %c higher. Sugarcured meats (canvassed or plain): Hams 11e breakfast bacon 10½c, dried beef 9c. Dry salt meats: clear rib sides \$7 40, long clear sides \$7 80, shoulders \$5 65, short clear sides \$7 65, shoulders \$5 65, short clear sides \$8 15, long clear sides \$8 15, shoulders \$5 60, short clear sides \$8 40. Barrel meats: mess pork \$14 90. Choice tierce lard, \$8 75.

Topeka Markets.

PRODUCE AND PROVISIONS—Corrected weekly by W. W. Manspeaker & Co., 711 Kansas avenue. (Wholesale price).

Butter, per lb Eggs (fresh) per doz	••••		3	20a	25 26
Eggs (fresh) per doz Beans, white navy, H. P., Sweet potatoes.	••	bus		2	60
ADDIOS	44	44	1	00a1	
Potatoes	+4	44	-	60a	95
Unions	44	44	*	00a1	
Beets	66	44	7	40a	-
Turnips	**	**		258	35
	-				_

J. L. STRANAHAN,

Broom Corn

Commission. Liberal advances on con Reference:—Hide & Leather National Bar 194 Kinzle street. CHICAGO, ILI.

HUGH E. THOMPSON.

Commission and dealer in Broom-Makers Supplies. Reference:—National Bank of Com-

1412 & 1414 Liberty St., Kansas City, Mo.

J. STURGIS, M. D.,

Breeder of first-class PLYMOUTH ROCK and LIGHT BRAHMA Chickens, Premium PEKIN DUCKS and Mammoth BRONZE TUR-KEYS.

PERRIN, MISSOURI.

Correspondence and inspection invited. (Mention Kansas Farmer.)

START RIGHT!

If you want to make a success with crops trees and grasses hereafter, get one of

SWANN'S BOOKS.

It will not fail you, Address, enclosing \$1.00, NEIL WILKIE'S BANK, Douglass, Butler Co., Kansas.

Kansas Box and Basket Co.,

Grape Baskets, Egg Cases, Berry Boxes and Crates, Peach Boxes, Tree Wrappers, Veneering, and Packing

(Telephone 1,098.) WYANDOTTE, KAS.

PER ACRE! CHEAP

I WILL SELL OR TRADE

80 ACRES OF NICE LAND

adjoining the town of Wilmot, Kas. Will trade for Cattle or Sheep. Farm well improved; all under fence, in good condition. Also a nice stock of

HARDWARE and LUMBER

Goods all new and in splendid condition. Will sell or trade as above mentioned. Address Box 9, Wilmot, Kas.

Kansas City Stock Yards,

KANSAS CITY, MISSOURI,

ARE BY FAR THE

Most Commodious and Best Appointed in the Missouri Valley,

With ample capacity for feeding, weighing and shipping cattle, hogs, sheep, horses and mules. They are planked throughout, no yards are better watered and in none is there a better system of drainage. The fact that

Higher Prices are Realized Here than in the Markets East.

Is due to the location at these Yards of EIGHT PACKING HOUSES, with an aggregate daily capacity of 8,300 cattle, and 27,200 hogs, and the regular attendance and sharp competitive buyers for the Packing Houses of Omaha, Chicago, St. Louis, Indianapolis, Cincinnati, New York and Boston. All the thirteen roads running into Kansas City have direct connection with the Yards, affording the best accommodations for stock coming from the great grazing grounds of all the Western States and Territories, and also for stock destined for Eastern markets.

The business of the Yards is done systematically, and with the utmost promptness, so that there is no delay and no clashing, and stockmen have found here, and will continue to find, that they get all their stock is worth, with the least possible delay.

C. F. MORSE General Manager. E. E. RICHARDSON,

H. P. CHILD

Superintendent.

HAGEY & WILHELM, UOL AND BROOMCORN

Commission Merchants —st. louis, mo.—

REFERENCES: - KANSAS FARMER Co., Topeka, Kas.; Boatmen's Bank, St. Louis; Dunn's Mercantile Reporter, St. Louis; First National Bank, Beloit, Kas.

We do not speculate, but sell exclusively on commission.

REAT OFFER!



T. SWOGER& SON

DIRECT FROM THE FACTORY AT MANUFACTURERS PRICES. No Such Offers Ever Made.

EVERY MAN HIS OWN AGENT.
BOXED IN THE FACTORY.
OPENED AT YOUR HOME
NO MIDDLEMEN.
NO WHOLESALE DEALERS.

NO RETAIL DEALERS. NO CANVASSERS.

WRITE FOR PARTICULARS, ADDRESS T. SWOGER & SON, ORGANS, Beaver Falls, Pa., U.S.A.

ANT AGENTS for best SASH LA er invented. Excellent ventilator. & ttling. Big pay. Sample & terms to ag BAFETY LOCK CO., 108 CANAL ST., QLEVELAND, O



ORGANS & SEWING MACHINES.



GENTS HERE d farmers with no experience make \$2.50 and ur during spare time. J.V. Kenyon, Glens Falls, Y., made \$18 one day, \$75.50 one week. can you. Proofs and catalogue free. J. E. Sherard & Co., Cincianati, Q.



JUDICIOUS AND PERSISTENT Advertising has always proven successful. Before placing any

Newspaper Advertising consult

LORD & THOMAS,

ADVERTISING AGENTS,

46 to 49 Randolph Street, CHICAGO

GRAND

\$25 in Prizes GIVEN AWAY. Send 2-cent stamp for

particulars. Address SOHOOL GLEANER Marion, Kansas.

Regular subscription price of the Kansas Farmer is now \$1 a year, within reach of all.





THE STRAY LIST.

HOW TO POST A STRAY.

THE FEES, FINES AND PENALTIES FOR NOT POSTING.

POSTING.

BY AN ACT of the Legislature, approved February 27, 1886, section 1, when the appraised value of a stray or strays exceeds ten doll rs, the County Clerk is required, within ten days after receiving a certified description and appraisement, to forward by mail, notice containing a complete description of said strays, the day en which they were taken up, their appraised value, and the name and residence of the taker-up, to the Kansas Farmer, together with the sum of fifty cents for each animal contained in said notice. And such notice shall be published in the Farmer in three successive issues of the paper. It is made the duty of the proprietors of the Kansas Farmer to send the paper, free of cost, to every County Clerk in the State, to be kept on file in his sifice for the inspection of all persons interested in strays. A penalty of from \$5.09 to \$50.00 is saffixed to any failure of a Justice of the Farmer for a violation of this law.

Broken animals can be taken up at any time in the

year.

Unbroken animals can only be taken up between the first day of November and the first day of April, except when found in the lawful enclosure of the

the first day of November and the first day of April, except when found in the lawful enclosure of the taker-up.

No persons, except citizens and householders, can take up a stray.

If an animal liable to be taken up, shall ceme upon the premises of any person, and he falls for ten days, after being notified in writing of the fact, any other citizen and householder may take up the same.

Any person taking up an estray, must immediately advertise the same by posting three written notices in as many places in the township giving a correct description of such stray, and he must at the same time deliver a copy of said notice to the County Clerk of his county, who shall post the same on a bill-board in his office thirty days.

If such stray is net proven up at the expiration of ten days, the taker-up shall go before any Justice of the Peace of the township, and file an affidavit stating that such stray was taken up on his premises, that he did not drive nor cause it to be driven there, that he has advertised it for ten days, that the marks and brands have not been altered; also he shall give a full description of the same and its cash value. He shall also give a bond to the State of double the value of such stray.

The Justice of the Peace shall within twenty days from the time such stray was taken up (ten days after posting), make out and return to the County Clerk, a certified copy of the description and value of such stray.

If such stray shall be valued at more than ten dol-

certified copy of the description and the stray.

If such stray shall be valued at more than ten dollars, it shall be advertised in the KANSAS FARMER in three successive numbers.

The owner of any stray may, within twelve months from the time of taking up, prove the same by evidence before any Justice of the Peace of the county, having first notified the taker-up of the time when, and the Justice before whom proof will be offered. The stray shall be delivered to the owner, on the order of the Justice, and upon the payment of all charges and costs.

costs.

If the owner of a stray fails to prove ownership within twelve months after the time of taking, a complete title shall vest in the taker-up.

At the end of a year after a stray is taken up, the Justice of the Peace shall issue a summons to three heuseholders to appear and appraise such at: w, summons to be served by the taker-up; said appraisers, or two of them, shall in all respects describe and truly value said stray, and make a sworn return of the same to the Justice.

value said stray, and make a sworn return of the same to the Justice.

They shall also determine the cost of keeping, and the benefits the taker-up may have had, and report the same on their appraisement.

In all cases where the title vests in the taker-up, he shall pay into the County Treasury, deducting all costs of taking up, posting and taking eare of the stray, one-half of the remainder of the value of such stray.

Any person who shall sell or dispose of a stray, or take the same out of the State before the title shall have vested in him, shall be guilty of a misdemeanor and shall forfeit double the value of such stray and be subject to a fine of twenty dollars.

FOR WEEK ENDING JAN. 19, 1888.

Lyon county-Roland Lakin, clerk.

Lyon county—Roland Lakin, clerk.

STEER—Taken up by James W. Dickason, in Jackson tp., January 4, 1889, one dark red steer, a little white in face, on belly and end of tail, swallow fork or bit in right ear, small under-bit in same, branded with what seems to be two letters about three inches square on right hip, 1 year old; valued at \$12.00.

STEER—Taken up by William D. Owen, in Emporia tp., November 1, 1887, one light red steer, 3 years old, branded Mo. on right bip; valued at \$15.

STEER—By same, one red steer, 3 years old, white face, swallow-fork in left ear, under-bit in right ear; valued at \$15.

COW AND CALF—Taken up by Park Morse, in Emporia tp., December 7, 1887, one spotted cow, 7 years old, branded JV on left horn, under-bit in each ear, 6-months-old heifer calf at side; valued at \$18.

Stanton county—M. F. Banburg clerk.

Stanton county-M. F. Banburg, clerk.

Stanton county—M. F. Banburg, clerk.

HEIFER—Taken up by L. H. Kreigh, in Stanton
tp., (P. O. Johnson City), December 26, 1887, one red
and white spotted 2-year-old helfer, branded Won left
hip and side, cars under-sloped; valued at 38.

3 HEIFERS—By same, three 1-year-old helfers,
dark red and white spotted, crop off left ear and under-bit in right ear; valued at \$18.

2 CALVES—By same, two red 8-months-old helfer
caives, (one has white in face), swallow-fork in left
ear, crop off left ear, under-slope in right ear; valued
at \$10.

Crawford county-J. C. Gove, clerk.

STEER—Taken up by D. 3. Williams, in Sherman tp., January 10, 1888, one white and red spotted yearling steer, crop and split in left ear. (P.O.Farlington).

Montgomery county-G. W. Fulmer, clerk. HORSE—Taken up by J. H. Hand, in Cherokee ip., one light iron-gray horse, about 10 years old, 14% hands high, a cut in left ear about an inch and a hair from tip, lame in left hind leg with large scar on inside of hock-joint, coliar marks.

Labette county-W. J. Millikin, clerk. COLT-Taken up by L. C. Kivett, in Howard tp., secember 12, 1887, one iron-gray horse colt. 2 years

old, W on left shoulder; valued at \$15.

MARE-By same, one gray mare, about 10 years old, W on left shoulder, under-bit in each ear, about 14% hands high; valued at \$25.

COLT—By same, one gray mare colt, 3 years old, W on left shoulder.

Nemaha county-W. E. Young, clerk. STEER-Taken up by James Nelli, in Adams tp., (P. O. Onelda), December 12, 1887, one calf or short yearling steer, black and white, no marks or brands; valued at \$12.

Allen county-R. W. Duffy, clerk.

BOAR-Taken up by W. D. Jewell, in Salem tp., November 19, 1887, one Poland-China boar, both fore feet white, left hind foot white, end of nose white, weight between 400 and 500 pounds.

high, three white feet and white face, branded J. H.;

PONY—By same, one sorrel pony, two white feet and white face, 54 inches high, branded L. S.; valued at \$25.

Wyandotte county-Frank Mapes, clerk. CALF-Taken up by John Brown, one bay calf, about 6 months old.

Coffey county-H. B. Cheney, clerk.

Coffey county—H. B. Cheney, clerk.

HEIFER—Taken up by M. H. Beard, in Spring
Creek tp., one dark red-roan 2-year-old helfer, white
beily, under half of right ear cut off, no other marks
or brands; valued at \$12.50.

STEER—Taken up by W. S. Wheeler, in Liberty tp.,
one red yearling steer, indistinct brand on right hip;
valued at \$12.

STEER—Taken up by A. H. Patterson, in Liberty
tp., one red and white i-year-old steer, no marks or
brands; valued at \$12.

HORSE—Taken up by Chas. Proebsting, in Burlington tp., one sorrel horse, 9 years old, blaze face,
thin tail, heavy mane, about 15½ hands high, no
marks or brands; valued at \$25.

Chase county—J. J. Massey, clerk.

Chase county-J. J. Massey, clerk.

STEER-Taken up by James Martin, in Bazaar tp., (P. O. Matfield Green), December 10, 1887, one redroan 1-year-old steer, branded Œ on right hip; valued at 812.

Bourbon county-J. R. Smith, clerk. HEIFER—Taken up by C. A. McCollem, in Marion tp., December 28, 1887, one roan 2-year-old heifer with brindle neck, branded J on left side; valued at \$12. PONY—Taken up by A. J. Kough, in Marion tp., (posted December 29, 1887,) one bay horse pony, about 10 years old, heavy-set, three white feet, white strip in forehead, no other marks or brands.

FOR WEEK ENDING JAN. 26, 1888.

Osage county-R. H. McClair, clerk.

COW-Taken up by Adam Groff, in Olivet tp., No-ember 25, 1887, one 3 year-old red-roan cow, no marks

vember 25, 1887, one 3 year-old red-roan cow, no marks or brands; valued at \$15.

COW AND CALF—Taken up by John Lewis, in Lincoin tp., December 21, 1887, one red and white spotted cow about 7 years old, (with red helfer calf), cross on right hip, left horn turns up, right horn turns dewn; valued at \$20.

STEER—Taken up by Benjamin Clark, in Junction tp., November 15, 1887, one 2-year-old red steer, slit in right ear; valued at \$12.

Republic county-H. O. Studley, clerk. COW—Taken up by Thomas Cogswell, of Big Bend, January 11, 1888, one medium-size red and white cow, 4 years old, no marks or brands; valued at \$15.

Finney county-O. V. Folsom, clerk.

MULE—Taken up by A. F. Lee, in Sherlock tp., (P.O. Deerfield, Kearney Co.,) December 24, 1887, one brown mare mule, 14 hands high, white collar marks; valued at \$35.

Wabaunsee county-G.W. French, clerk. HEIFER—Taken up by Christian Miller, in Washingten tp., (P. O. Alma), one red and white spotfed heifer, about 18 months old, above medium size, no marks or brands visible; valued at \$12.

Coffey county-H. B. Cheney, clerk. COW AND CALF — Taken up by D. K. Jones, in Lincoln tp., January 18, 1888, one cow and calf, dim brand on left hip; valued at \$14.

Jefferson county-E. L. Worswick, clerk. COW-Taken up by John Frazier, in Delaware tp., [P. O. Valley Falls], January 3, 1888, one white cow. tag in left ear branded A. Smith, Valley Falls,

Greenwood county-J.W. Kenner, clerk.

Greenwood county—J.W. Kenner, clerk.

STEER—Taken up by C. H. Burris, in Madison tp.,
December 13, 1887, one 2-year-old red and white spotted steer, with splotch brand on left hip, no other
marks or brands visib e; valued at \$15.

STEER—Taken up by James Spain, in Salem tp.,
December 22, 1887, one pale red or brindle 2-year-old
steer, no marks or brands visible; valued at \$20.

COW AND CALF—Taken up by John Willis, in
Bacheleritp, one white cow, 2 years old, marked with
crop off left ear, roan steer calf; valued at \$17.

COW AND CALF—By same, same time and place,
one pale red cow, 2 years old, branded IX on left hip,
blotch brand on right hip, roan helfer calf; valued
at \$17.

blotch brand on right hip, roan heirer caif; valued at \$17.

STEER—Taken up by Adam Dixon, Jr., in Janesville tp., January 11, 1888, one 1-year-old red steer, hole in each ear and each car split from the hole outwards, indistinct brand on right hip; valued at \$15.

STEER—Taken up by E. D. Alils, in Lane tp., December 24, 1887, one muley steer, red and white spotted. 2 years old, rounding crop in right ear; valued
at \$12.

HAIFER—Taken up by L. T. Dean, in Lane tp., January 6, 1888, one roan heifer, 2 years old, a circle on
right hip, upright bar on left hip, smeoth crop off
right ear; valued at \$14.

STEER—Taken up by E. D. Martindale, in Madison
tp., December 20, 1887, one red and white steer, 3
years old under-crop in both ears; valued at \$20.

Nemaha county—W. E. Young, clerk.

Nemaha county-W. E. Young, clerk. STEER-Taken up by F. Kruger, of Seneca, January 9, 1888, one red-roan 2-year-old steer, no marks or brands; valued at \$17.

Bourbon county-J. R. Smith, clerk. MARE AND COLT—Taken up by J. R. Smith, in reakiin tp., December 13, 1887, one bay mare, white trip in forehead, stiff in shoulders, buseh on one ide, about 14½ hands high, sorrel colt about 8 months

old. COW—Taken up by Samuel Wray, in Freedom tp., December 2, 1887, one red 3 year-old cow, under-bit in right ear, no other marks or brands; valued at \$13.

FOR WEEK ENDING FEB. 2, 1888.

Chautauqua county-W. F. Wade, clerk. PONY—Taken up by W. A. Barnes, in Bellville tp., December 19, 1537, one iton-gray mare pony, 2 years old, 12½ hands high, both hind iest white, star in forehead, no brands perceivable; valued at \$15.

HORSE—Taken up by Eliza Brown, in Hendricks tp., January 2, 1888, one dark bay horse, no marks or brands, 8 years old; valued, at \$50.

Cowley county-S. J. Smock, clerk.

COW—Taken up by E. H. Denton, in Bolton tp., [P. O. Arkansas City], December 24, 1887, one red cow, branded X H; valued at \$18.

Sedgwick county-S. Dunkin, clerk. COLT—Taken up by G. A. Keister, in Waco tp., January 15, 1888, one sorrel mare colt, about 2 years old, white face, white hind legs, mane and tail a little dark, 18½ hands high; valued at \$25.

Johnson county-W. M. Adams, clerk. COW—Taken up by A. M. Piper, of Monticello, De-cember 24, 1887, one red cow, 2 years old, some white on belly, both horns sawed off.

Rice county-Wm. Lowrey, clerk.

MARE—Taken up by James G. Hagee, in Center tp., January 16, 1883, one gray mare, 11 hands high, dark mane and tail, both eyes glassed, branded with an inverted q on left hip, C on right hip, about 7 years old; valued at \$25.

Stanton county-M. F. Banburg, clerk.

crop and under-bit in left ear, crop and upper-bit in right ear; valued at \$20.

Montgomery county-F.W. Fulmer, clerk. HEIFER—Taken up by J. W. Miller, in Independence tp., one red 2-year-old heifer with white spots and white spot in forehead; valued at \$13.

Brown county-N. E. Chapman, clerk.

COW—Taken up by L. O. Law, in Mission tp., one red cow [calf by side], slot or swallow-fork in left ear and slit in right ear. CALF—By same, one calf, slot or swallow-fork in left ear; both valued at \$15.

Wyandotte county-Wm. E. Connelley, clk. COW—Taken up by Green Ewing, in Delaware the November 2, 1887, one black and white cow, 7 or 8 years old, crop and under-bit in lett ear, crop and two silts in right ear, branded H. O. on left hip. CALF—By same, one spotted heifer caif, about 6 months old.

Jackson county-E. E. Birkett, clerk. COW—Taken up by W. Shoup, in Douglass tp., December 5, 1887, one red cow, 7 years old, white spot in forchead, letter 8 and straight mark on right side. CALF—By same, one red late spring calf, white spot in forchead; both valued at \$22.

Too Late to Classify.

PLYMOUTH ROCK COCKERELS - Two dollars each; three for s5. Plymouth Rock and Pekin Duck eggs, \$1 per 13. Mark S. Salisbury, Independence, Mo.

TRANSPLANTED RED CEDAR AND EVER-greens, Ornamental Trees, Shrubs, Roses, etc. Write for free price list. G. W. Tincher, Tepeka, Kas.

possible to accomplish by the engraver's art is a large pocket map just issued by the St. Paul, Minneapolis & Manitoba Railway, showing the northwestern country between Chicago and the Pacific Ocean in detail. A copy will be mailed free to any address upon application to C. H. WARREN, Gen. Pass. Agent, St. Paul, Minn.

ORGANS AND SEWING MACHINES
\$3.00 up. 30 styles. Sent on
ranted 5 years. Buy direct and
save half. Circular with 10,000 testimonials First. GRO. 74,NNA 20.
R'Fre, 125 S. Clinton St., Chicago, Ill.



SUPERSERES ALL CONDITION POWDERS.
Contains no poison. Best Toulo, Blood Furifier and System Regulator. Will make Heas lay.
Cures Cholera, Roup, etc. 1-1b. dan, 25 deiz.
Land take no other. Send \$1 for 5-1b. trial can, charge pre-paid. Manrd by L. A. RAYEN & CO., Chicago, Ill.

WESTERN AGRICULTURIST.



CHICHESTER'S ENGLISH ORIGINAL ONLY GENUINE
SAFE.ALWAYS TO LIDIES INCISPENSABLE
KRESTERS RELIABLE. NEVER FAIL.
ENGLISH DIAMOND BRAND TAKENOUTHER
BINDICES 45 PAPTICIII ABS. RETLIRIN MAIL OR INCLOSE 4° PARTICULARS RETURN MAIL PILLS
HIGHESTER CHEMICAL CO.MADISONSOR PHILA PA

Suffering from the effects of youthful errors, early decay, wasting weakners, lost manhood, etc., I wil send a valuable treatise (sealed) containing ful particulars for home cure, FREE of charge. A splendid medical work; should be read by every man who is nervous and debilitated. Address, Prof. F. C. FOWLER, Moodus, Conn.

CREAMERY PACKAGE 🕺 MFG. CO., 🌫

MANUFACTURERS AND JOBBERS OF

Butter Tubs, Egg Cases,

AND GENERAL

CREAMER AND DAIRY SUPPLIES.

We carry a Large Stock of Butter Tubs and Egg Cases in our Warehouse, and can Fill Large Orders Promptly.

We carry a Full Line of Cans, Butter Boxes, Butter Printers, Workers, Churns, Pails, Salts, Coloring, and Everything that is needed in Creameries or Small Dairies.

Our Large Catalogue for 1888, will be out March 15th. All parties that are in the butter and egg business or dairying, will do well to send us their address, and we will forward you our Catalogue when it is out.

Creamery Package Mf'g. Co.

1408 & 1410 West 11th St.,

KANSAS CITY. MO.

CONTINENTAL WIRE CO.,

ST. LOUIS, MISSOURI,

Eagle Parallel Barb Wire,

Wichita county—H. A. Platt, clerk.

PONY—Taken up by W. L. Lane, (P. O. Leott), December 18, 1887, one iron-gray horse pony, 54 inches

Stanton county—M. F. Banburg, clerk.

Best wire known for protecting stock, presenting a surface twice as broad as old-style twisted wire, and Barbed regularly every 2, 3, 5 or 6 inches, as ordered. Ask your dealer for it. We also make the most perfect twisted Barb wire that has ever been made. Take none but the years old, left horn drooped, 96 on right side and hip, "EAGLE" Brand. Licensed under U. S. Letters Patent No. 350,413.

The Beterinarian.

[The paragraphs in this department are gathered from our exchanges.—ED. FARMER.]

CORNS.-Prof. Law, in his popular work, "The Veterinary Adviser," gives the following interesting advice in regard to corns on horses' feet:

Corns are at first simple bruises of that part of the sole included between the bars of and the wall at the heel, but later there is often an increased production of horn, and the formation of a horny tumor, which presses injuriously on the quick. In other cases the bruise causes active inflammation and the formation of matter which, if denied to escape below, will burrow toward the coronet or less frequently around the toe, and give rise to disease in the deeper fibrous network, the cartilage or the bone. In these last conditions it usually results as fistula or quittors. In other cases the corn is pared out as is supposed, but the heels, having lost their mechanical action of the sole, curl forward and inward, repeat the bruise continually, keep up the inflammation and what is equivalent to a sore in the heel. The irritation often produces absorption of the margin of the bone at the heels, with bony deposits above or below, and ossification (turning to bone) of the lateral cartilages, a condition which almost necessarily perpetuates the bruises or corns. Corns may exist in either heel, but are usually in the small or weaker one, and prevail above all in flat feet, with low, weak heels.

Symptoms.—Lameness, with a ten-

dency to point, with the heel slightly raised when at rost, and a short, stilty, stumbling step when moved. Pinching the affected heel with pinchers and tapping it with a hammer causes wincing. If the shoe is removed and the heel pared out, the horn may be seen to be blood-stained, but unless this is seen on removing the flakes no one should allow curiosity to lead to a deeper search. If suppuration has taken place. the tenderness is extreme, almost causing the animal to keep the foot raised, and scarcely daring to touch the ground with the toe. A tender swelling usually appears at the coronet above the affected heel, and pinching or hammering of the heel is unendurable.

Treatment.-If a recent bruise and uncomplicated, apply either a bar shoe or a common one, but rasp down the bearing surface at the heel, to avoid pressure, as advised for side bones, and place the affected feet in water, or keep the walls moistened with wet swabs, and the sole with oil meal or clay packing. When tenderness has subsided. smear the hoof with ointment and work carefully. Remove the shoe early enough to prevent pressure on that heel. and in preparing the foot retain the strength of that heel by preserving the elastic horn of the sole between wall and bar. Never allow this to be pared and weakened unless it be to evacuate matter or sand, or for the removal of a horny tumor.

If suppuration has taken place, pare down the heel until the matter escapes. remove all horn detached from the quick, and pare the horn around this to a thin edge; poultice until the surface is smooth, dry and not at all tender; then apply a bar shoe with a leather sole, and a stuffing of tow and tar, or crude turpentine (pitch pine). No pressure should be allowed on this heel until the sole has grown up to its natural level, as a support. Horny tumors may be removed by paring out and treating as above advised until the sole attains its natural growth. If oldstanding corns are connected with death of a portion of the heel, of the foot bone, or ulceration of the lateral car-

CHICAGO.

KANSAS CITY.

ST. LOUIS

JAMES H. CAMPBELL & CO.,

ommission

FOR THE SALE OF CATTLE, HOGS AND SHEEP.

Rooms 23 and 24, Exchange Building, Unequaled facilities for handling consignments of Stock in either of the above cities. Correspondence invited. Market reports furnished free. Refer to Publishers KANSAS FARMER.

tilage, these must be scraped or cut off before improvement is to be expected. If connected with side bones they are liable to be kept up by frequent pinching of the quick between the bone and horn, and demand careful shoeing to avoid pressure on the heel.

POLAND - CHINA PIGS

135 FOR SALE.



Sired by six first-class boars for season's trade.

My herd is headed by STEM
WINDER 7971.

Address F. M. LAIL, Marshall, Mo. [Mention Kansas Farmer.]

LANEY & PFAFF GREEN RIDGE, MISSOURI.

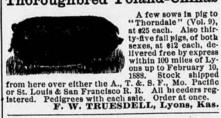
THOROUGHBRED

POLAND-CHINA HOGS

FOR SALE.

No poor pigs sent out. [Mention Kansas Farmer.]

THE GOLDEN BELT HERD OF Thoroughbred Poland-Chinas



OTTAWA HERD



Hogs. Twenty head of first-class boars from four to nine months old. Also seventy-five head of sows of same age, sired by Bruce enty-five head of sows of same age, sired by Bruce few Hogs. C. R., Whipple's Stemwinder 4701, Daisy's Corwin 4697. Dams—Mazy 2d 6214, Zelda 3d 8250, Maggie's Perfection 8210, Vone's Perfection 9424, Fay's Gold Drop 11676, Jay's Dimple 12172, Eureka Mayo 12176, and many other equally as well bred, and fine as can be produced by any one Part of sows bred to gilt-edge boars of the most popular strains. Will sell at prices to suit the times. Never had any cholers in the herd. Write for prices. d any cholers in the herd. Write for prices.

I. L. WHIPPLE, Box 270, Ottawa, Kas.

FOUR BOARS.

TWENTY SOWS.

W. S. HANNA.

OTTAWA, - - - KANSAS.

Have shipped to fourteen States, and twenty-six counties in Kansas, and headed nearly fifty herds of pure-breds.

SEND FOR CIRCULAR. Describe exactly what you want.

Gold Dust Herd of Poland-Chinas.



J. M. MCKEE, WELLINGTON, KANSAS. My herd is composed of such strains as Black Bess. Give or Take, Tom Corwin, Gold Dust and U. S. I sell nothing but first-class hogs of individual merit and gilt-edge pedigree. Choice pigs a specialty. Plymouth Rock Chickens of superior quality. Correspondence invited. Mention Kansas Farmer.



Chester White, Berkshire and Chester White, Berkshire and Poland-China Pigs, fine Setter Dogs, Scotch Collies, Fox Hounds and Bengles, Sheep and Poultry, bred and for sale by W. Gibbons & Co., West Chester, Chester Co., Ps.

T.A.HUBBARD

WELLINGTON, -:- KANSAS,

BREEDER OF-

POLAND-CHINAS



My Poland sows are of the most fancy strains, such as Corwins, Black Bess, I. X. L., U. S., Gold Dust-Maorish Maid, Perfections, Gracefuls, etc. My Berkshires—British Champions, Sallies, Bella Donnas, Robin Hoods, Duchess, Dukes, etc. I have now on hand about twenty boars, weighling from 200 to 300 pounds, and a few glit-edge, dandy fellows. Also about twenty-five young sows bred to Chip and Joker, the latter being the sweepstakes Berkshire boar at the late Kansas State Fair. The sows being out of my sweepstakes herd. the sweepstakes Berkshire boar at the late of all ages for sale.

My hogs are in fine condition. THE Pigs of all ages for sale.

FIRST-CLASS HOGS WITH INDIVIDUAL MERIT.

We use only the choicest animals of the most approved pedigree, hence our herd is bred to a very high state of perfection. Pigs in pairs not akin. Stock of all ages and sows bred for sale at all seasons. Prices reasonable and quality of stock second to none.

J. M. BROWNING, Perry, Pike Co., Ill.

For Berkshire Swine and Southdown Sheep that are first-class, or money refunded, call on or address J. M. & F. A. SCOTT, Box 11, Huntsville, Mo.

[Mention KANSAS FARMER.]

LOCUST & GROVE & HERD



LARGE ENGLISH BERK-SHIRE SWINE.

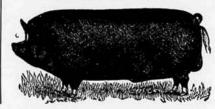
Nothing sent out but what is a credit to Locust Greve Herd. Individual excel lence combined with purity of breeding, is my motto.

Prices to suit the quality of stock offered. Correspondence and inspection solicited. Orders booked now for spring pigs. Address as below, or better, come and see.

JAMES HOUK, Prop'r, Hartwell, Henry Co., Missourl.

ORDERS TAKEN NOW

For SPRING PIGS sired by



ROYAL GRANITE 10105,

The best BERKSHIRE boar ever owned at "Haw Hill," and several other first-class HAW HILL," and several other first-classifies. Enclose stamp for catalogue and prices SPRINGER BROS., Springfield, Ill.

PLEASANT VALLEY HERD Pure-bred Berkshire Swine.



I have thirty breeding sows, all matured animals and of the very best strains of blood. I am using three splendid imported boars, headed by the splendid prizes and gold medal at the leading shows in Canada in 1881. I am now prepared to fill orders for pigs of either sex not akin, or for matured animals. Prices reasonable. Satisfaction guaranteed. Send for catalogue and price list, free.

S. MCCULLOUGH,

SELECT HERD OF LARGE BERKSHIRES!

G. W. BERRY, PROP'R, TOPEKA, KAS.

My breeders have been selected, regardles of expense, from the leading herds of the United States: are bred from the best stock ever imported, and represent seven different families. Healthy pigs from prize-winning stock for sale. Write for circular and prices or come and see. [Mention this paper.]

LOGUST GROVE HERD OF

Large English Berkshires



Headed by GOLDEN CROWN 14823, A. E. R. CHOICE PIGS FOR SALE, either sex. Everything as repre-lented. Write me, and please mention this paper.

JAMES HOUK, HARTWELL, HENRY Co., Mo.

ENGLISH BERKSHIRES



THE WELLINGTON HERD consists of twenty matured brood sows of the best families of home-bred and imported stock, headed by the celebrated HOPEFUL JOE 4889, and has no superior in size and quality nor in strain of Berkshire blood. Also Plymouth Rock Chickens. Your patronage solicited. Write. [Mention this paper.]

this paper.]
M. B. KEAGY, Wellington, Kas. P. S .- Yearling sows, already bred, for sale.

FOX RIVER VALLEY HERD OF IMPROVED CHESTER HOGS.



I have a few prize-winning boars for sale, also for-ty-five head of aged sows have farrowed this spring. Orders booked for pigs without money till ready to ship. Nothing but strictly first-class pigs shipped. Prices reasonable and satisfaction guaranteed. My motto: "Individual superiority and best of pedi-grees." I am personally in charge of the herd.

T. B. EVANS, Geneva, Ill.

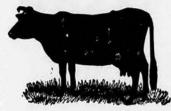


C. W. JONES, Richland, Mich. Breeding stock all recorded in both the American and Ohio Poland-China Records,

EARLY DAWN HERD **HEREFORDS**

The quality and breeding of our large herd challenges comparison in the show ring and breeding pen. We sell better cattle for the money and protect our customers. Inspect our herd before buying elsewhere. New catalogue containing valuable information sent on application. E. S. SHOCKEY, See'y, Maple Hill, Wabaunsee Co., Kas.

Sherwood & Rohrer Stock Farm,



A.J.C.C. H.R.

JERSEY

CATTLE.

The herd is headed by the Stoke Pogis Victor Hugo Duke bull, St. Valentine's Day 1527s, and the Coomassie bull, Happy Gold Coast 1471s. Sons and daughters by above bulls, out of highly-bred cows, for sale for aext ten days. SHERWOOD & ROHRER.

BRIGHTWOOD HERD OF SHORT-HORNS



Bates and Standard Fam illes, including

PURE KIRKLEVINGTONS

Places, Harts, Craggs, Roses of Sharon, Young Marys and Josephines. Have extra well-bred young bulls, ready to

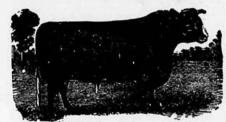
head herds, for sale now at terms to suit. Also two handsome, rangy,

FINELY-BRED TROTTING STALLIONS

for sale

B. K. THOMSON, Slater, Mo.

SUNNY SIDE HERD OF SHORT-HORNS.



Is composed of such strains as Marys, KirklevINGTONS, Bates, Rose of Sharon, Josephines,
Young Phyllis, and other noted families. Duke of
Rathwold — heads the herd. Animals of good individual merit and pedigree for sale on terms to sult
purchasers. Address FRANK CRAYCKOFT,
Sedalia Mo.



H. V. PUGSLEY, PLATTSBURG, MO.,

Breeder of Holstein-Friesian Cattle, of the Mercedes, Heintje, Katy K., and other noted families. Herd headed by the prize bull MINK 3D's MRDEDES PRINGE 2861. Have Merino Shvep. Catalogues free. [Mention this paper.]

Holstein - Friesian Cattle

Of European Herd Book Registry.



The sweepstakes buil PRINCE OF ALTIJDWERK (61 M. R.) at head of herd, has no superior. Cows and helfers in this herd with weekly butter records from 14 pounds to 19 pounds 10% ounces; milk records, 50 to 80 pounds daily. The sweepstakes herd. Write for catalogue. M. E. MOORE, Cameron, Mo. [Mention this paper.]

Cherokee Hereford Cattle Co..

THE GROVE PARK HERD.

300 HEAD, representing Grove 3d, Wilton, Horace, Anxiety and Sir Thomas strains, combined with great individual merit.

Headed by the imported prize-winning Grove 3d Bull PLUTARCH 14410, HORACE 5th 12524, WILTON DUKE 11851.

Animals of both sexes and all ages for sale. Fair prices. Liberal terms.

CATALOGUES ON APPLICATION.

F. P. CRANE, Manager, C. E. CURRAN, Secretary, Topeka, Kas.

L. G. DANA, Superintendent, Columbus, Kas.

${ t LINWOOD\, SHORT-HORNS}$

W. A. HARRIS, PROP'R, LINWOOD, LEAVENWORTH CO., KAS

Substance, flesh, early maturity and good feeding quality the objects sought. The largest herd of Scotch Short-horns in the West, consisting of Cruickshank Victorias, Lavenders, Villets, Secrets, Brawith Buds, Kinellar Golden Drops, etc., headed by Imp. Baron Victor 42824, a prize-winner and sire of prize-winners.

LINWOOD—Is tweaty-seven miles from Kansas City, on Kansas Division Union Pacific R. R. Farm joins station. Inspection invited. Catalogue on application.

Devon Cattle! RIVERSIDE STOCK FARM!

We are the largest breeders of this hardy, easy-keeping breed, one of the best for the West. Stock for sale singly or car lots.

RUMSEY BROS. & CO., EMPORIA, KANSAS.

ISLAND HOME STOCK FARM



Percheron Horses.
French Coach Horses.
Savage & Faruum, Importers and Breeders of Percheron and French Coach
Horses, Island Home Stock
Farm, Grosse Isle, Wayne
County Mich. We offer a
very large stud of horses to
select from, we guarantee
our stock, make prices reaconable and sell on easy
terms. Visitors always welcome. Large catalogue
free. Address
Savare & Farnum.



DEGEN BROS., OTTAWA, ILL.,

Importers and breeders of Percheron, Belgian Draft, and French Coach Horses. We have now over 150 head of imported Percheron tallions and mares on hand. Our importations this year have been selected from the best breeding districts of France. Our Belgian Draft horses are all prize-winners and recorded in Belgian and America. Our stock is all recorded in France and in America. Our French Coach horses are the best that could be found in France. We will be pleased to show our stock to visitors. Corre-

Bennett & Son.

TOPEKA, - KANSAS,

The Leading Western Importers of

CLYDESDALE, PERCHERON, CLEVELAND BAY

French Coach Horses.

AN IMPORTATION OF 125 HEAD,

Selected by a member of the firm, just received.

Terms to Suit Purchasers. Send for illustrated catalogue. Stables in town:

E. BENNETT & SON.



IMPORTERS AND BREEDERS OF ENGLISH SHIRE AND SUFFOLK PUNCH HORSES



RED POLLED CATTLE.

We have on hand a very choice collection, including a recent importation or horses, several of which have won many prizes in England, which is a special quarantee of their soundness and superiority of form and action. Our stock is selected with great care by G. M. Sexton, Auctioneer to the Shire Horse Society of England.

Send for catalogues to Morroll Manner Horse Society of England.

SEXTON, WARREN & OFFORD, Maple Hill, Kansas.

More Imported and Bred than by any other Eight Establishments.

511 PURE-BREDS Now Actually on Hand.

Experience and Facilities Combined for Furnishing Best Stock of Both Breeds at Reasonable Prices.

Separate Catalogues for each breed, with history of same. Say which is wanted. Address

W. DUNHAM, WAYNE, DU PAGE Co., ILLINOIS.

THE HOME AND HEADQUARTERS

FOR ALL KINDS OF

BRITISH HORSES

Royal Society Winners in Each Breed. **GALBRAITH BROS.,**

OF JANESVILLE, WIS, have imported during the present season over 200 STALLIONS including

CLYDESDALE, ENGLISH SHIRE, SUFFOLK PUNCH, HACKNEY

AND CLEVELAND BAY HORSES.

More prize winning, high class stock, imported by us than any three firms in America. Superior horses, fashionable pedigrees and all guaranteed good breeders. Prices and terms to suit everybody. Visitors cordially invited. Send for Catalogue.

CALBRAITH BROS., Janesville, -Wisconsin.

AT OAK GROVE.

Eighty High Class Stallions Imported During the Summer of 1887 by

JOHN C. HUSTON, BLANDINSVILLE, - ILLINOIS.

BLANDINSVILLE,

OUR importations this year constitute the Largest and Undoubtedly as Fine a toubtedly as Fine and the get of prize-toinners and the get of prize-toine

NORMAL, ILL. French Draft and Percheron Horse CENTER OF AMERICA.

7 model barns surround the depet; 23 barns



native pure-bred, and high-grade Stallions and Mares of all ages (Registered in France and America). First-class stock, strong competition, and reasonable prices should induce everyone to visit the French-horse city of McLean county—the France of America—before buying elsewhere. Address each of the undersigned firms.

E. McNaught.

E. McNaught. Kemp & Lowrey. C, M. Moots.

Dillon Bros. Dillon & Bright. J. F. Trimmer.

Normal, Ill., is located at crossing of Chicago & Alton and Illinois Central R. R. 15-minute street care to and from Bloomington depots.

LATE

GEARY BROS. CO., BOTHWELL, CANADA.



POLLED ARERDEEN-ANGUS CATTLE

English Shire Stallions and Mares. THOROUGHBRED

Yorkshire Coach and Tretting Stallions.

We have just received a new importation of Horses and Cattle, and have now an unrivaled herd of cattle and a grand stud of Horses and Mares of the above breeds to show our friends. Having more importations to arrive soon and our herd increasing largely, we are in a position to suit all customers and are obliged to sell for the double purpose of raising money to carry on our business and make room arrivals. Write or come and get bargains G. & J. GEARY, Brookfield, Misseurs

SWEET POTATOES.

A large supply of all best varieties of Seed Sweet Potatoes. Also a large stock best quality for table use. Adaress B. F. JACOBS, Box 122, Wamego, Kas.

SEED SWEET POTATOES I have on hand a large potatoes and every variety that is in the market. 1 to 6 bus. e1.10 per bus.; over this amount, si per bus. JUNIUS UNDERWOOD, Grower and Dealer, 342 Maine St., Lawrence, Kas.

GRAPE VINES.

Large stock of Concord and Worden with other varieties. Apple, Cherry, and Plum, with a gen-eral Nursery Stock. Eighteenth year. Price list free. THE VINLAND NURSERIES, ST. JOSEPH, MO.

Crescent, 200,000 Capt. Jack, 100,000 Capt. Daving, and from 77,000 to 100,000 of the new sorts, including Jessie, Bubach and others. List free.

B. F. SMITH, Box 6, Lawrence, Kansas.

--THE-

KANSAS HOME NURSERY

OFFERS

BEST HOME-GROWN TREES. Choice Fruit and Ornamental Trees of real merit for the Western Tree-Planters. Also best Fruit and Flower Plates. Water-proof. Samples by mail, 10 cents each; \$6 per 100, by express 100, by express.
A. H. GRIESA, Drawer 28, Lawrence, Kas.

Red Cedars! Forest Tree SEEDLINGS!

Largest Stock! Lowest Prices! Russian Mulberry, Catalpa Speciosa, Ash, Elm, Maples, Cottonwood, Box Elder, FruitTrees and Plants, Peach Pits. You will save meney to get our lowest prices. Write for our Price Lists and give earlmate of your wants. Address BAILEY & HANFORD.

Makanda, Jackson Co., Ill.

Hart Pioneer Nurseries

Of FORT SCOTT, KANSAS.

A full line of Nursery Stock, Ornamental Trees, Roses and Shrubbery. 43 We have no substitution clause in our orders, and deliver everything as specified. 220 Acres in Nursery Stock.

Reference: Bank of Fort Scott. Oatalogue Framer on application.

Established 1857.

Western Home Nurseries,

· DETROIT, - - - KANSAS.

Originator of SEEDLESS AND CORELESS PEAR, the best pear grown. Has never shown any blight, whatever; as hardy as an oak; the pear tree is a heavy and annual bearer of nice large pear of finest quality. Price very reasonable. Also all kinds of Fruit Trees, Vines and Berries, Evergreen and Ferest Trees. No traveling agents. Correspondence solicited. Send for Price List. E. EICHOLTZ.

Forest Tree Seedlings and Apple Trees

AT VERY LOW PRICES.

Send for our low prices on General Nursery Stock before placing your order. KANSAS CITY NURSERIES,

Blair & Kaufman, Propr's. 100 West 9th St., Kansas City, Mo.

Mount Hope Nurseries

ESTABLISHED 1869.

Offer for Spring of 1888. Fruit and Ornamental Trees, Grape Vines, Small Fruit and Shrubbery. All the old established sorts, and the destrable new ones. Bed rock prices. Quality of stock unsurpassed. We solicit club orders and by the carload. Shipping facilities best in the State. Send for Wholessle Price Catalogue.

A. C. GRIESA & BRO.,
Drawer 13, Lawrence, Kas.

Forest Trees!

TIMBER CLAIMS.

An immense stock of Fruit, Forest and Ornamental Trees, Shrubs and Climbers, at hard-time prices. 118 One-Dollar Sets, per mail, post

A paper devoted to fruit-growing free for one year to all who buy \$1.00 worth of stock. Send at once for our Price List.

CARPENTER & GAGE, Jefferson Co.) Fairbury, Nebraska.

LAMAR NURSERIES.

Headquarters for Fine Nursery Stock Which is Offered at

HARD-TIME PRICES!

Dealers and Nurserymen supplied at low-

est wholesale rates.

Parties desiring to buy in large or small quantities will save money by purchasing

quantities will save money by purchasing our stock.

We have Apple, Peach, Pear, Plum, Cherry and Evergreen Trees. Grape Vines in all varieties, and FOREST TREES a specialty. Osage Hedge Plants and Russian Mulberry in any quantity.

Write for Prices.

C. H. FINK & SON, LAMAR, MO.

Grown in IOWA, the garden spot of the U.S., are best matured and give best results. New Catalogue Pree. Iowa Seed Co., Des Moines

Y orchard Crass SEEDS P. CARROLL, LEXINGTON, KY.

SEEDS All tested, the best. Prices Fair and Just. Catalogue free. SEED POTATOES 150 varieties. Grapes, Plants and WANTED to make a fine Trees, everything WANTED to make a fine est, best, most prolific and worm-proof BY ALL. CRANDALL's should be tried BY ALL. FRANK FORD & SONS, - Ravenna, Ohio.

a IBLEY'S TESTED SEED CATALOGUE FREE! Containing all the latest noveltles and stand ard varieties of Uarden, Field and Flower Seeds Gardeners everywhere should consult it before sing. Stocks pure and fresh prices reas purchasing. Stocks pure and fresh, prices reasonable.

Address Hiram Sibley & Co.,

Rochester, N. Y., or Chicago, Ills.

CELERY.

Full of new ideas and valuable information.
Although actually worth many dollars to growers, a copy will be mailed free to any person who will send two stamps and the address of ture or more extensive Cabbage, Cauliflower or Gelery growers. Address

ISAAC F. TILLINGHAST, La Plume, Lack'a Co., Pa.

TREESAND PLANTS

We offer for the Spring trade a large and fine stoc of every description of FRUIT and Ornamenta TREES, Shrubs, Roses, Vines, SMALL FRUITS, Hedge Plants, Fruit Tree Seed lings and Forest Tree Seedlings, Priced Oats large Spring of 1888, mailed free, Established 1866 BLOOMINGTON (PHŒNIX) NURSERY SIDNEY TUTTLE & CO. Proprietors, BLOOMINGTON, LLE

LOOK HERE

The name and address of every farmer and gardener who reads this to send for my 1888 catalogue of

FIRE DRIED SEED CORN,

Wheat, oats, potatoes and garden seed. It contains my article, "How to Grow Potatoes" and other valuable information FREE. I have won more prizes than any other man in the state at fairs and corn shows. Send name and address on postal card. Mention this paper.

JAS. W. BOUK, Box 28, Greenwood, Neb.

White Pine Seedlings!

EVERGREENS

OF ALL KINDS CHEAP.

Send for FREE Price List, giving the experience and knowledge gained by extensive planting and handling for thirty-one years. [Mention "Kansas Farmer.']

E. F. BROCKWAY, Ainsworth, Iowa.

MILLIONS

Fruit Trees, Shade Trees, Small Fruits. Vines. Ornamental Trees, Etc.

TEN MILLION FOREST TREE SEEDLINGS. ONE MILLION HEDGE PLANTS.

ONE HUNDRED THOUSAND TWO-YEAR APPLE TREES-Grown from whole root grafts.

FIVE THOUSAND IRISH JUNIPERS—Two-feet, SPLENDID WALNUTS, and other forest tree seeds and nuts, prime and fresh Full instructions sent with every order, and perfect satisfaction guaranteed. Send for full list and prices. Address

D. W. COZAD Box 25, LACYGNE, LINN CO., KANSAS.

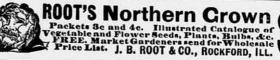
FINEST FRUIT TREES Grape Vines, Plants, Evergreens, Ornamentals, Root Grafts—Every-Ching, new and old, No larger stock in U. S.; no better; no cheaper, Apple, budded and grafted; 70,000 Pear, fine 2 yrs.; 90,000 Cherry, fine 2 yrs.; 60,000 Flum on plum, 80,000 on peach; 60,000 new named Russ. Apricot—400 acres; 6th year, PIKE CO. NURSERIES, LOUISIANA, MISSOURI:

OO Varieties. Also Small Fruits. Quality unsurpassed. Warranted true. Very cheap sample vines mailed for 15c. Descriptive price list free. LEWIS ROESCH, Fredonia, I.









FARM ANNUAL FOR 1888
Will be sent FREE to all who write for it.
Handsome Book of 128 pp., with best for it.
BENT Colored By pp., with best for it.

Handsome Book of 123 pp., with hundreds of illustrations, Colored Plates, and tells all about the Bulbs, Plants, and Valuable New Books on Garden Topics. It describes Rare Novelties in VEGETABLES and FLOWERS, of real value, which cannot be obtained elsewhere. Send address on a postal for the most complete Constants. W. ATLEE BURPEE & CO., PHILADELPHIA, PA.





Warranted Seed. I have founded my business on the belief that the public are anxious to get their seed directly from the grower. Raising a large proportion of my seed enables me to warrant its freshness and purity, as see my Vegetables and Flower Seed Catalogue for 1888, FREE for every son and daughter of Adam. It is liberally illustrated with engravings made directly from photographs of vegetables grown on my seed will find in it some valuable new vegetables not found in any other catalogue. As the original introducer of the Eclipse Beet, Burbank and Early Ohio Potatoes, Hubbard Squash, Deephead Cabbage, Cory Corn, and a score of other aluable vegetables, I invite the patronage of the public.

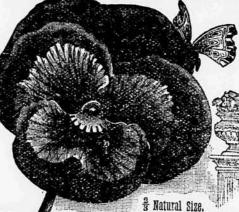


the FIRST BUY NORTHERN GROWN SEEDS and finest vegetables in the market. Not well seed the FIRST Bull of LIFE and VIGOR. Hundreds of gardeners gladly testify that by sowing our seeds they made \$250 per acre on early Cabbage, Corn. Melons, Peas, etc. Market gardener's wholesale list EARLY VEGETABLES OUR SPECIALTY. Gardener's wholesale list EARLY VEGETABLES OUR SPECIALTY. OR OR Roses and Plants. Tremendous Stock of Flower, Vegetable, Grass and Farm Seeds. Bonanza Cats, 200 bu. per acre. Floor area 1/4 acres. Potato cellar, \$3,600 bu. CHKAP FREIGHTS. Send & for So Day Cabbage and Superbly Illustrated Catalog.

JOHN A. SALZER,



MANUAL OF EVERYTHING GARD



is this season the grandest ever issued, containing three colored plates and superbillustrations of everything that is new, useful and rare in Seeds and Plants, together with plain directions of "How to grow them," by Peter Henderson, This Manual, which is a book of 140 pages, we mail to any address on receipt of 25 cents (in stamps.) To all so remitting 25 cents for the Manual, we will, at the same time, send free by mail, in addition, their choice of any one of the following novelties, the price of either of which is 25 cents: One packet of the new Green and Gold Watermelon, or one packet of new Succession Cabbage, or one packet of new Succession Cabbage, or one packet of Butterfly Pansy (see illustration), or one packet of new Hanmoth Verbena, or one plant of the beautiful Moonflower, on the distinct understanding, however, that those ordering will state in what paper they saw this advertisement.

PETER HENDERSON & CO. 35 & 37 Cortlandt St.,



Write for their ILLUSTRATED CATALOGUE, Address: PLANT SEED COMPANY. BIZ NOBTH FOURTH STREET, SAINT LOUIS, (Mention this Paper.)

1 Mathie



FOREST TREES.

Catalpa Speciosa, White Ash, European Larch, Pines, Spruces, Arbor Vittes, etc., etc. Catalpa Speciosa Seed. Forest and Evergreen Seeds.

R. DOUGLAS & SON. Waukegan, Ill.

PIYOTED

With METAL

WHEELS and

SPRINGS at

MATTHEWS' SEED The Standard of America DRILL

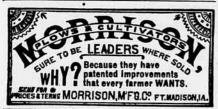


Made only by AMES PLOW COMPANY, Boston and New York. 139 Send for circulars and 1888 72-page catalogue.

THE LITTLE WONDER Fence Machine!

Bucots them all. Simple, strong, practical, cheap and durable. Can be worked by man or boy. Stumps, brush, mounds and hollows do not interfere with its work. Will work where no other machine can. Agents Wanted. Particular from Advance.

mted. Particulars free. Address FRANK W. BINFORD, Grant City, Worth Co., Mo.







THE PROFIT ARM BOILER

RIDING OF WALKING STEEL CULTIVATORS Planter and Fertilizer

complete in one machine.
Crowned with Medals
since 1879.
EING of the COEN FIELD
Thousands in use giving
entire satisfaction. Agents wanted. Cata-ogues free. Name this paper HENCH & DROMGOLD, York, Pa.









DELAWARE COUNTY

-We will pay Freight .-Write for our wholesale offer to first purchaser. Address Delaware County Creamery Co., BENTON HARBOR, MICH.



One churn at wholesale where we have KUREKA AND SKINNER BUTTER V Hashitt Butter Printers, Etc., Etc., Send for illustrated circulars.

VERMONT FARM MACHINE CO., Bellows Falls, Vt.



SEARLES BROTHERS

GENERAL AGENTS. No. 621 Commercial St., ATCHISON, KAS.



Halladay Wind Mill

PUMPS, PIPE, WATER TANKS. FEED MILLS, ETC.

Write for catalogue. Address U. S. WIND ENGINE & PUMP 00., 1311 West 12th St., KANSAS CITY, MO.



Manufactured by GOULDS & AUSTIN, 167 & 169 LAKE ST. CHICAGO, ILLINOIS.

68 W. LAKE ST. CHICAGO.ILLINOIS,





AND BORING MACHINES.

IMPROVED. BEST MADE.
Because of their DURABILITY, EASE of
Operation, and Few and Short Stoppages
(a machine earns nothing when the drill is idle).
J.E. B. MORGAN & CO. OSAGE, 10WA.

NEW BUCKEYE SUNBEAM CULTIVATOR P. P. MAST & CO. SPRINGFIELD, OHIO. WITH

PARALLEI

snavel Standards are attached and secondary beam or rod pivoted to the Cross-head, to which the front, and to the Cross-head in the rear, by which the Shovels are carried parallel with the the beams supports them who in use, and enables the operator to move them easily from side to side these Beams also to our Riding and Tongaeless Cultivators. This cultivator has no equal in BUCKEYE DRILL, BUCKEYE SEEDER, BUCKEYE CIDER MILLS AND HAY RAKES. Branch Houses:—Philadelphis. Pa.; Peoris. Ills.; St. Paul, Minn.; Kansas City, Me.; and San Francisco, Cal. Seend for Circular to either of the above firms or to

P. P. MAST & CO., SPRINGFIELD, OHIO.



TRUMBULL, REYNOLDS & ALLEN, General Agents, Kansas City, Mo.

THE COOLEY CREAMER



The first invented, never yet equalled, and the only one that uses the patented submerged process, Which gives it its great value over all others.

Where there are no agents, will sell one at wholesale price. Send for circular.

JOHN BOYD, Mfr., 199 Lake St., CHICAGO

THE LANE & BODLEY CO.,





DAIRY IMPLEMENT CO., BELLOWS FALLS, VT.

SEND

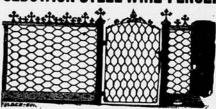
before SUCCESSFULLY met by invention. The calf SUCES its flood SLOWLY, in a natural way, thriving as well as when fed on its mother. Now used in every State and Territory in the Union. Worth many times its cost. Sat-J. B. Small & Co., 21 So. Market St., Boston, Mass



Machines in actual use

field and attached to Mowing

SEDGWICK STEEL WIRE FENCE.



The best Farm, Garden, Poultry Yard, Lawn, School Lot, Park and Cemetery Fences and Gates, Perfect Automatic Gate. Cheapest and Neatess Iron Fences. Iron and vire Summer Houses, Lawn Furniture, and other wire work. Best Wire Stretcher and Plier. Ask dealers in hardware, or address, SEDCWICK BROS., RICHMOND, IND.



All sizes and widths. Sold by us or any dealer in this line of goods. FREIGHT PAID. Information free. Write The McMULLEN WOVEN WIRE FENCE CO. 158 & 160 West Lake St., CHICAGO, Illinois.

CURE FITS!

Ersy or Falling SIOKNESS a life-long study. It warrant my remedy to cure the worst cases. Because others have failed is no reason for not now receiving a cure. Send at once for a treatise and a Free Bottle of my infallible remedy. Give Express and Post Office. 9. G. ROUT, M. C., 183 Pourl St. New York.

gives perfect satisfaction. Illustrated and samples free. Agents wanted.

C. H. DANA, West Lebanen, N. H.

OPIUM AND MORPHINE HABIT CURED In 10 to 20 days. No pay until cured. Address C. H. DANA, West Lebanen, N. H.

TWO-CENT COLUMN.

"For Sale," "Wanted," "For Exchange," and small advertisements for short time, will be charged two cents per word for each insertion. Initials or a number counted as one word. Cash with the order.

B Special. —All orders received for this column from subscribers, for a limited time, will be accepted at one-half the above rates—cash with the order. It will pay you! Try it!!

ROR SALE CHEAP—The Holstein-Friesian Bulls I No. 2285, Vol. 7, imported, and No. 92, Vol. 1, Holstein-Friesian Herd Book. Also one full-blood Bull Calf frem imported dam. John Schwab, Cherokee, Kas.

FOR TRADE—Farm of 159 acres; 50 acres under cultivation; 145 acres tillable; in Cowley Ce., Kas. Will trade for blooded horses—Norman er Cleveland Bays preferred. Address B. L. Wilsen, Atlanta, Kas.

QUEEN OF THE WEST CORN—Early and large. Yielded forty bushels to the acre last season. Address John Holt, White City, Kas.

HOLSTEIN-FRITSIAN BULLS - Registered, for sale. Address E. Harpole, Ottawa, Kas.

STALLIONS FOR SALE—Three Clydes and one Norman. Acclimated and good breeders; broken to drive. Will give time if desired. Every stallion guaranteed as represented. R. I. Blackledge, Salina,

FIOR SALE—Two Stallion Colts, coming 2 years old. Sired by imported Cleveland Bay stallion President, out of trotting-bred mares. No. 1, 15½ hands, weight 1,180 pounds; No. 2, 15¾ hands, weight 550 pounds. Both bays. Also one Stallion—three-fourths Clyde; 16 hands; weight 1,500 pounds; bay; coming 3 years old. Address Wm. Roe, Vinland, Douglas Co., Kas.

TOR SALE—One Percheron Stallion, 8 years old, weight 1,600 pounds, bright bay. One Jack (Mammoth), 10 years old. Good breeders. Jaceb Martin, Coffeyville, Kas.

FOR SALE OR TRADE—One Norman Stallien; weighs 2,600 pounds; brought from Illinois. Also five young Stallions; also about twenty horses and mules. Will sell cheap or exchange for Western deeded land. William Hess, Shannen, Atchison Co.,

FOR SALE — Half-blood Cleveland Bay Stallion Colt; by imported Cleveland Bay horse, dam by Thoroughbred; weight at twenty and a half months, 1,085 pounds; 15½ hands high. Gee. Roe, Vinland, Deuglas Co., Kas.

FOR SALE—One A. J. C. C. Jersey Bull; solid color; 5 years old. For particulars write I. W. Arnold, Louisville, Kas.

IMPORTED CLYDESDALE STALLION FOR SALE low, or will trade for land or stock. W. H. Vanatta, Nortonville, Jefferson Co., Kas.

FOR SALE—One hundred tons of Baled Prairie Hay. Rogers & Son, Harper, Kas.

FOR SALE OR EXCHANGE - Two fine young stallions. Address M. C. Hemenway, Hope, Kas. WANTED-A good Jack. Address Jesse W. Cook, Leoti, Wichita Co., Kas.

STRAYED—A bay mare, 14½ hands high, star in forehead, branded 333 on hind quarter and 3 on cheek; has one white hind foot. Mare has been gone four menths. Address C. Chivers, 415 Kansas Ave., Topeka.

FOR SALE OR TRADE—For property or land a No. 1 millinery business in a first-class location in Topeka, a well-established trade of years, and fresh stock and fixtures. Reassens for selling, wish to retire on account of health. Inquire at this office.

FOR RENT-A small farm with conveniences for I dairying. Also, similar place suitable for small fruit and gardening. J. U. Hughes, North Topeka, Kas.

KANSAS ECONOMY INCUBATOR—Capacity of 250 eggs, sold for only \$20. My new Book reduced to only 25 cents. It tells how to make and use the incubators, how to make a good Brooder to mother the chicks and how to manage the chicks until ready for market; also, how to make hens lay all winter; also, how to cure Roup and Cholera. Langshan eggs sold for \$2.50 for 13. Address Jacob Yost, Topeka.

POUR YOUNG STALLIONS FOR SALE.—Three and 4 years old: standard-bred roadsters of Messenger and Black Hawk blood; partly broken to drivend ready for service. Also will sell three good Jacks; also a registered Aberdeen-Angus Bull, 5 years old, a sure breeder, offered at a bargain. Address D. H. Hartsock, Marshall, Mo.

FOR SALE—Light Brahma Chickens of the cele-brated *Felch* strain. Call on or address Mrs. Emma Brosius, Topeka, Kas.

200,000 RUSSIAN MULBERRY SEEDLINGS one to two feet, per 1,000, \$1.50; one to two feet, per 1,000, \$4; two to three feet, per 1,000, \$10. Also Catalpa, Ash and other forest trees, one or two years. B. P. Hanna & Co., Arlington, (on C., K. & N. R. R.), Reno Co., Kas.

WANTED—The address of 500 farmers who want to impreve their poultry by the use of thoroughbred males. M. D. Mulford, Guide Rock, Neb.

WANTED-Cane, Millet, Timothy, Clover and other seeds. F. Barteldes & Co., Lawrence, Kas.

TRY IT!—This column for cheap advertising. It is worth five times the price asked.

I NOW OFFER FOR SALE—A very fine lot of two-kas, of best varieties, packed carefully, in lots to spit customers, and delivered on board the cars or, at express office, at very low prices. A. Willis,

BARTHOLOMEW & CO., Real Estate and Loan Brokers, 189 Kansas avenue, Topeka, Kas. Write them for information about Topeka, the capital of the tate, or lands, farms or city property.

TOR SALE—Good healthy Trees and Plants. Varieties most profitable in Kansas. Send list of wants for prices. J. S. Gaylord, Muscotah, Atchison Co., Kas.

FOR TRADE FOR STOCK—Two good Improved Creek Bottom Farms, with timber and water. Address A. M. Mason, Neodesha, Wilson Co., Kas.

ROR SALE OR TRADE—Three hundred and twen-ty acres of land in western Kansas. Under high state of cultivation. Box 284, Coronado, Kas.

FOR SALE—Two yards Wyandotte Chickens, one yard Partridge Cochins. One cock and five hens each. I will sell cheap. Extra good stock. Jno. I. Hewitt, Tenth street east, Topeka.

TWO-CENT COLUMN--(Continued.)

M AMMOTH CUBAN CORN.—This corn will mature in ninety days and will yield twenty to thirty bushels more than other varieties. In 1886 it yielded eighty bushels per acre. Price, half bushel, 81.25; one bushel, \$2.25; two bushels, \$4. Bags included. Address John Shoup, Whiting, Jackson Co., Kas.

POR SALE—Light Brahma, Langshan and Wyan-dotte Cockerels and Pullets. Cheap for quality of stock. Express rates low. M. D. Mulford, Guide Rock, Neb.

FOR SALE—Holstein-Friesian Cattle. Ten young Bulls, 7 to 20 months old. Terms to suit purchasers. P. I. McEchron, Richmond, Kas.

50 NEW SAMPLE CARDS—For '88 and big outfit free. Card Works, Grand Island, Neb.

I AM ALWAYS IN THE MARKET—To buy Common or German Millet, Clever, Timothy, Cane Seed or Onion Sets, and have a full line of Grass, Cane and Tree Seed to offer. Correspondence solicited. J. G. Peppard, 1220 Union avenue, Kansas City, Mo.

FOR SALE—160 Acres; all fenced and cross-fenced; two good barns, horse stable, granary will hold 2,006 bushels, carriage house, corn crib; a large variety of fruit trees in bearing; six-room house, nearly new. Four and a half miles from Stafford. Price \$4,500 -\$700 four years at 7 per cent. C. G. McNell, Stafford, Kas.

PATENTS.—Instructions, references, sample copy patent free. J. C. Higdon, Solicitor of Patents, Kansas City, Mo. Reliable associate at Washington.

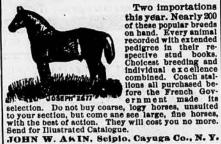
WANTED-75,000 readers of the FARMER to read this column each week for great bargains.

FOR EXCHANGE — A year's subscription to the Kansas Farmer, or a twenty-word advertisement in this column five weeks, for \$1. Address Kansas Farmer Co., Topeka.

DO BUSINESS—By advertising in this column any wants, trades or sales you wish to make.

FOR SALE OR TRADE — One Norman Stallion; weighs 1,600 pounds; 7 years old; fine style and action and a spiendid mover. Has taken leading premiums wherever shown. A bargais to some one if taken soon. Robert Ritchie, Peabody, Marion Co., Kas.

Recorded Percheron and French Coach Horses.



Two importations

JOHN W. ANIN, Scipio, Cayuga Co., N. Y

Joseph Watson & Co.,



NEBRASKA, Importers of English Shire and Clydesdale Horses, have just received a fresh importation. We have in our stable Laughing Stock No. 3797, E. S. B., who took sweepstakes at the Nebraska State Fair in errest prize-winner of

Nebraska State Fair in 1837, beating Blythe Ben, the great prize-winner of 1836. We have also the first-prize 2-year-old and second-prize 3-year old, same fair, besides the winners of several prizes in England. Parties desiring the best should not fall to inspect our stud, every horse of which is guaranteed a breeder. [37] Prices reasonable and terms to suit.

Visitors welcome. Correspondence solicited.

JOHN CARSON

Pleasant View Farm, Winchester, Jefferson Co., Kansas,



IMPORTER AND BREEDER OF

Clydesdale, Percheron-Norman & Cleveland Bay HORSES.

Have now on hand for sale horses of each breed thoroughly acclimated. Stock guaranteed. Inspec-tion and cerrespondence invited.

For Sale!

Registered Berkshire Pigs and young Sows bred, and from prize-winners. Foundation stock Duchess and Windsor Castle families. Largest and best in England or America. Premium Langshan and Wyandotte Chick-

Eggs in season.

ite for catalogue and price list before hasing.

J. L. BUCHANAN,

Belle Rive, Ill. purchasing.

KANSAS CITY,

-DEALERS IN-

SEEDS CLOVER, MILLET, TIMOTHY, BLUE GRASS, ORCHARD GRASS, RED TOP, MEADOW FESCUE, ENGLISH SEEDS WEED, BROOMCORN SEED, CASTOR BEANS, FLAX SEED, BUCKWHEAT, SEED OATS, SEED CORN, FANCY GRASSES, ETC., ETC.

tree seeds a specialty.

Use None but T.R. &. A.'s Pure Bulk Garden Seeds.

. 18 If your dealers haven't them, write us direct. Also T. R. & A.'s Pure Mixed Bird Seed and Mixed Lawn Grass Seed.

ALL OUR SEEDS ARE NEW. HAVE NO OLD SEEDS TO OFFEB. We carry full lines of the popular PLANET, JR., FARM AND GARDEN

TOOLS, DAISY GARDEN PLOWS, TRIUMPH STEAM GENERATORS, all kinds of SEED SOWERS.

LAND PLASTER.

WRITE FOR PRICE. Send for 1888 CATALOGUE.

TOPEKA SEED HOUSE.

Established 1878.

All Kinds of Field, Garden and Flower Seeds.

We have a fresh stock of reliable Seeds, and a full stock of all kinds of Field Seeds: RED CLOVER, ALFALFA CLOVER, KENTUCKY BLUE GRASS, ORCHARD GRASS, ED-TOP, MILLET, BROOM-CORN, CANE SEED.

SEED CORN PURE NORTHERN-GROWN 90-DAY CORN, SEED POTATORS, all kinds of useful Field and Garden Seeds, at Wholesale and Retail. EST Also a full line of GARDEN IMPLEMENTS.

Send for Catalogue. 'Address'

DOWN'S ELEVATOR & SEED CO., 304 KANSAS AVENUE, TOPEKA, KANSAS.

SPLENDID OVER 1500 DIFFERENT VARIETIES All strong Plants, each labeled, delivered safely by mail. Largest Assertment. Low Prices. In business is years. Guaranteed satisfaction. Stock comprises all desirable varieties. Only mature plants sent. My new Illustrated Catalogue sent FREE sent, with instructions for successful cultivation. FREE plants FLEEWHERE before sending CATALOGUE All lovers of flow-treety buyer of cheap plants should have it. Everyone wanting new and choice PLANTS should send for it. Everyone who has a garden should have a copy of my catalogue of SEEDS All the new and standard varieties. Valuable books on Floriculture given to purchasers. CHARLES A. REESER, (INNISFALLEN GREENHOUSES) SPRINGFIELD, OHIO.

THE SIBLEY SQUASH The FINEST WINTER TABLE or CANNING Squash

on record. Introduced this season, with **OTHER NOVELT**of **RARE MERIT**. The handsomest most complete and orehensive Catalogue that has appeared this season. Address, HIRAM SIBLEY & CO., ROCHESTER, N. Y., AND CHICAGO, ILL.

J. C. PEPPARD, 1220 UNION AVENUE, Red, White, Alfalfa & Alsyke Clovers,
Timothy, Blue Grass, Orchard Grass, Red Top,
Onion Setts, Tree Seeds, Cane Seed, Etc.

KANSAS CITY, MO.

POMEROY COAL CO.

COAL × COA

Wholesale and Retail.

618 KANSAS AVE. Topeka, - - Kansas.

WANTED!

\$10 Per Day--For Good Men--\$10 Per Day!

One hundred good responsible men wanted to engage in a New Enterprise. Light, easy work, that can be done right where you are located. No capital required. Work that can be performed by any man or boy who has the push. Address for further particulars, enclosing two stamps for reply,

Mound City Mfg Co., Mound City, Kas

A. D. FERRY & CO., Commission Dealers in ${ t BROOMCORN}$ 225 & 227 Kinzie St., CHICAGO. Refer to Fort Dearborn National Bank and Lincoln National Bank Chicago. Est Liberal advances on consignments.



all orders. Hammoth Seed Farms! One Acre of Solid Glass! Write for my Beautiful Illustrated Catalogue. Free. H. W. HUCK REE. Rockford Seed Farm, - ROCKFORD, ILL.



Prettiest Illustrated SEED-CATALOGUE beet printed. Cheapest & beet SEEDS grown.
Gardeners trade a specialty. Packets only 3c.
Cheap as dirt by oz. & ib.
10000 pkts new extras free.
R. H. SHUMWAY. Rockford III.



SEEDS SENT
Warranted. Fresh, Reliania
Tested seeds cheap, Illustrated Catalogue Sent free.
Frices lowest. Intects & etc.
Gardeners say our geeds and thebest. Thousands of choice packets given away.
Special wholesate price into Merry Broce.
ALNER BROCE.

BIG Extra Early Black Cap CARMAN. All the best new and old sorts of plants and trees at BERRIES fair prices for pedigree stock. Catalogue BERRIES from Hale Bros. So. Glastenbury, Conn.