

VOL. XXXIX NO. 49

TOPEKA, KANSAS, THURSDAY, DECEMBER 5, 1901.

ESTABLISHED IN 1863 \$1.00 A YEAR

#### Breeders' Directory.

**DUROC-JERSEY SWINE.** 

D. TROTT ABILENE, KANS., famous Du-roc-Jerseys and Poland-Chinas

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

M. H. ALBERTY, - - Cherokee, Kansas DUROC-JERSEYS.

100 head for this year's trade; all eligible to record

DUROC-JERSEYS. J. U. HOWE,
Wichita, Kans.
Farm 2 miles west ofty on Maple Avenue.

FAIRVIEW HERD DUROC-JERSEYS. Have sold all spring males, but have about 60 fine pig of September and October farrow at reasonable price J. B. DAVIS, FAIRVIEW, BROWN CO., KANS.

**DUROC-JERSEY SWINE—REGISTERED** 

Write for prices on what you want; 100 to **MEWTON BROTHERS, Whiting, Kans.** 

STANDARD HERD OF

#### Registered Duroc-Jerseys

PETER BLOCHER, Richland, Shawnee Co., Kans. Herd headed by Big Joe 7868, and others. S. C. B. Leghorns.

### 100 Duroc-Jersey Pigs.

For Sale—100 March and April pigs from the Rock dale Herd of Registered Duroc-Jersey Swine. The get of 8 herd boars. Prices right. Address

J. P. CHANDLER, Frankfort, Kansas.

#### POLAND-CHINA SWINE.

V. B. HOWEY, Box 103, Topeka, Kansas. Breeder and shipper of Poland-China hogs, Jersey cattle, S. L. Wyandotte chickens. Eggs in season.

POLAND-CHINAS, 90 GOOD spring pigs; bred but they are GHOIOE. Write for one. Don't delay, DIETRICH & SPAULDING, Richmond, Kansas.

RIVERSIDE HERD OF POLAND-CHINA HOGS. 80 head spring farrow, both sexes, fancy bred, prices reasonable. Also Commodore Dewey 46187, the prize-winner of southern Kans. Write for prices on this noted show hog. M. O'Brien, (Riverside), Liberty, Kas

W. P. WIMMER & SON, Mound Valley, Kans. ...Breeders of ...

FASHIONABLE POLAND-CHINA HOGS
Young stock for sale at all times. Prices reasonable.

T. A. Hubbard, ROME, KANS., Breeder of POLAND-CHINAS and LARGE

Two hundred head. All ages. Twenty-five boars and 45 sows ready for buyers.

SUNNYSIDE HERD OF

#### **Pedigreed Poland-China Hogs**

We now have for sale some extra good young boars, and a lot of glits 8 to 10 months old. All good. Glits will be bred or sold open as desired. This is a choice lot of young stuff that will be priced cheap, quality considered.

M. L. SOMERS, Altoona, Kans

#### VERDIGRIS VALLEY HERD OF POLAND-OHINAS.

For Sale: 12 head of the best early boars that I ever produced; large, heavy-boned, and smooth. Ten head of May, June, and July boars that are fancy; also one last fall's boar that is a show pig.

E. E. WAIT, Altoons, Kansas.

Successor to WAIT & EAST.

### High-Class Poland-China Hogs

Ino. D. Marshall, Walton, Harvey Co., Kans., Breeds large-sized and growthy hogs with good bone and fine finish and style. For SALE—Thirty October and November glits and 15 boars; also 100 spring pigs, sired by Miles Look Me Over 18879. Prices right. Inspection and correspondence invited.

#### POLAND-CHINA SWINE.

KANSAS HERD OF POLAND-CHINAS has some extra fine spring gilts, some January gilts, and sows 18 months, bred to Sen. IlKnow, he by Perfect I Know; and some nice fall boars by Sen. I Know, and U.S. Tec. Address F. P. MAGUIRE,

HAVEN, RENO COUNTY, KANSAS.

### ..FANCY.. POLAND-CHINAS

FOR SALE: 125 fall and spring boars and gilts, sired by Dandy U. S. 17446, and Model Boy Jr. 2400 The sire of each of my herd boars cost \$1,000 Choice pigs offered at reasonable prices. Write at

M. ROLAND HUGHES, Independence, Mo.

#### **THOROUGHBRED**

I have for sale a few October boars and gilts, 4 pred sows, and 70 winter and spring pigs, good sead and ears, large-boned. Come and see them,

JOHN BOLLIN. Klokapoo, Leavenworth Co., Kans. (Express Office, Leavenworth.)

#### SHADY LANE STOCK FARM. HARRY E. LUNT, Preprietor, Burden, Cowley Co., Kans

Registered Poland-Ohinas 25 Boars and 25 Gilts of late winter farrow, sired by Searchlight 25513, and Look No Further. Dams of the Black U. S., Wilkes, Corwin, and Tecumseh strains. Prices low to early buyers.

Remember the three days' Combination Sale at Wichita, Kans: February 11, 1902, Poland-Chinas by Snyder Bros. and H. E. Lunt; February 12, 1902, Short-horns by J. F. Stodder, and February 13, 1902, Draft horses by J. C. Robison and Snyder Bros.

R. S. COOK, Wichita, Kansas, BREEDER OF

#### POLAND-CHINA SWINE

The prize-winning herd of the Great West. Seven prizes at the World's Fair. The home of the greatest breeding and prize-winning boars in the West, such as Banner Boy 28441, Black Joe 2868, World Beater, and King Hadley. FOR SALE—An extra choice lot of richly-bred, well-marked pigs by these noted sires and out of thirty-five extra-large, richly-bred sows.

Inspection or correspondence invited.

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#### Ridgeview Farm Herd of LARGE ENGLISH BERKSHIRES

Have for sale—spring pigs of quality, at reasonable figures. Write us before buying. MANWARING BROS., Lawrence, Kans

### BERKSHIRES A Specialty

GEO. S. PRINE, Oskaloosa, Iowa.



For sale, 180 head of the best blood known, including Prine's famous Norse and oth-er popular strains. Founda-tion stock supplied to

#### CHESTER-WHITE SWINE.



TWENTIETH CENTURY HERD OF UP-TO-DATE, PRIZE-WINNING CHESTER WHITES



We have 70 pigs, mostly sired by Balance All 11827, the champion boar of 1990 at leading State Fairs and the International Live Stock Exposition. Address DORSEY BROS., Perry, Ill.

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PNGLISH RED POLLED CATTLE—Pure-bred Young, Stock For Sale. Your orders solicited Address. L. K. HABELTINE, DORGHEATER, GREEN Co., Mo. Mention this paper when writing.

MEADOW BROOK SHORTHORNS—Ten fine young bulls for sale—all red. Red Laird, out of Laird of Linwood, at head of herd.

F. C. KINGSLEY, Dover, Shawnee County, Kansas.

POLLED DURHAMS. Single and double standard. Male stock for sale. I have the largest and best herd of this breed of cattle in the State. Correspondence and inspection invited. J. Q. HOWES.

1221 West Douglas Avenue, Wichita, Kans.

### Registered Herefords

Of either sex, at private sale. I also have 140 % to % high-grades at private sale. ALBERT DILLON, Hope, Kansas

### Alfalfa Meadow Stock Farm,

Shady Bend, Kansas. Herefords, Poland-Chinas, Light Brahmas. Stock of all kinds for sale. Special: 48 Poland-China pigs. 200 bushels of pure, fresh Alfalfa Seed. O. B. WHITAKER, Proprietor.

MAPLE LEAF HERD OF THOROUGHBRED

#### Shorthorn Cattle, and Poland - China Swine.

Farm is 2 miles south of Rock Island depot.

JAMES A. WATKINS, Whiting, Kans.

#### BREED THE HORMS OFF BY USING A RED POLLED BULL.

CHAS. FOSTER & SON, Foster, Butler Co., Kans. Breeders of RED POLLED CATTLE. Herd headed by Powerful 4582. Pure-bred and grades for sale. Also prize-winning Light Brahmas.

#### Registered Herefords.

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Hartford, Lyon County, Kansas. Special Offerings: For Sale—One imported 4-year-old bull, 10 yearling bulls, 9 bull calves, 16 year-ling heifers, and 12 heifer calves.

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Herd headed by Acomb Duke 18th 142177. Herd com posed of Young Marys, Galateas, and Sansparells. Young bulls for sale.

A. M. ASHCRAFT, Atchison, Kans. R. F. D. No. 3. Inquire at Ashcraft & Sage Livery Barn, Main Street

....125....

### RAVENSWOOD SHORTHORNS

C. E. LEONARD. Bellair. Mo.

Males and females for sale. Inspection especially invited. Lavender Viscount 124755, the champion bull of the National Show at Kansas City, heads the herd. ED. PATTERSON, Manager. Railroad and Telephone station, Bunceton, Mo.

#### **EAST LYNN HEREFORDS** AND BERKSHIRES.

Herefords headed by Java of East Lynn 100229. Java is half brother to Dolly 5th, champion Here-ford cow of America. Berkshires headed by Premier 4th 55577. A few choice gitts and boars for sale. All breeding stock recorded. Inspection invited six days in the week. WILL H. RHODES, Tampa, Marion Co., Kans.

#### ..SUNFLOWER HERD..

SCOTCH, AND SCOTCH-TOPPED SHORTHORN GATTLE,

**POLAND-CHINA SWINE** Herd Bulls, Sir Knight 124403, and The Baren

Herd Bears, Black U. S. 2d 25582 S, and Missouri's Best On Earth 19836 S. REPRESENTATIVE STOCK FOR SALE Address ANDREW PRINGLE, Wabaunsee County. ESKRIDGE, KAN

ESKRIDGE, KANSAS.

#### CATTLE.

#### OHOIOE GALLOWAY CATTLE.

I have registered Galloway bulls for sale. O. E. MATSON, Furley, Sedgwick Co. Kans

D. P. NORTON'S Breeder of Pure Bred SHORTHORNS Dunlap, Morris Co., Kans Herd Bull, Imported British Lion 133692 Young stock for sale.

E. S. COWEE, Burlingsme, Kans., R. R. 2, Breeder of PURE-BRED HEREFORD OATTLE, and DUROC-JERSEY SWINE.

Kids' Dukz 96637 at head of herd. Young bulls and heifers for sale.

### Norwood Shorthorns. V. R. ELLIS, Gardner, Kans.

Sir Charming 4th at head of herd. Cruickshank-top rossess on best American families. Young stock for sale



O. F. NELSON, Hlawatha, Kansas, Breeder of REGISTERED Hereford Cattle. Herd headed by Dandy Dolan 102828 full brother to famous Dandy Rex.

#### Rock Hill Shorthorns and ..Saddle Horses..

Bulls in service, Sempstress Valentine 157069, and Mayor 129229. A fine string of young bulls and a few helfers for sale.

J. F. TRUE & SON, Proprietors.

Post-office, PERBY, KANS. Railroad station, Newman, Kans., on Union Pacific R. R., 12 miles east of Topeka.

### Hillside Stock and Poultry Farm

EXTRA FINE, LARGE, PURE-BRED M. B. Turkeys, Embden and Toulouse Geese, Pekin Ducks, White Guineas, and 6 kinds of fancy chickens for sale. Also Yorkshire Pigs, Cotswold Sheep, and Angora Goats Send stamp for circular. A. A. RIEFF, Box C.—289. Mankato, Minnesota.

...ALLENDALE HERD OF...

### Aberdeen-Angus Cattle

The Oldest and Largest in the United States Splendid recently imported bulls at head of herd Registered animals on hand for sale at reasonable prices at all times. Inspect herd at Allendale, near Iola and La Harpe; address Thos. J. Anderson, Mana-ger, Iola, Allen Co., Kans., R. B. 2, or— ANDERSON & FINDLAY, Prop's, Lake Forest, IIL

#### CLOVER CLIFF FARM. REGISTERED GALLOWAY CATTLE



Also German Coach, Saddle, and trotting-bred horses. World's Fair prize Oldenburg Coach stai-ion Habbo, and the saddle stai-lion Rosewood, a 18-hand 1,180pound son of Montrose in service.
Visitors always welcome. Address BLACKSHERE BROTHERS Elmdale, Chase County, Kan

### THE GEO. H. ADAMS HEREFORDS

AT LINWOOD, KANS.

YEARLING Bulls and Heifers for sale, sired by Orpheus 71109, and Ashton Boy 52058, and out of choice imported, and home-bred cows. Address all correspondence to GHORGE F. MORGAN,
General Manager, Linwood, Kansas.

#### E. H. WHITE, & Estherville, lowa, IMPORTER AND BREEDER OF GALLOWAY CATTLE.



Herd Foundation Stock A Specialty. A few choice Females and 14 Bulls for sale. Inspection or Correspond-ence invited. CATTLE.

### **Pure-bred Galloways**



Young Breeding Stock for Sale Several Bulls Ready for Immediate Service.

Large herd. Can supply de-nand now. Also pure-bred Cots-

W. G. McCANDLESS & SON, Cottonwood Falls, Kans

### Aberdeen - Angus

THE RUTGER FARM HERD

OFFERS-

Thirty registered bulls, 8 to 30 months old, low down, blocky fellows of choicest breeding and individuality. Also a few heifers bred to Expand. CHAS. E. SUTTON, RUSSELL, KANS.

### Silver Creek Shorthorns.

The Scotch bull, Gwendoline's Prince 180918, in service. Also the imported Scotch Missie bull, Aylesbury Duke. 100 head of the best Scotch, Bates, and American families. High class Durce-Jersey swine for sale. J. F. STODDER, Burden, Cowley Co., Kans.

Remember the three days' Combination Sale at Wichita, Kans: February 11, 1902, Poland-Chinas by Snyder Bros. and H. E. Lunt; February 12, 1902, Short horas by J. F. Stodder, and February 13, 1902, Draft horses by J. C. Robison and Snyder Bros.

H. R. LITTLE,

HOPE, DICKINSON CO., KANS., Breeds Only the Best, Pure-Bred

#### SHORTHORN CATTLE.

Herd numbers 135, headed by ROYAL CROWN, 125696, a pure Cruickshank, assisted by Sharen Lavender 143002. assisted by Sharen Lavender 143002.

FOR SALE JUST NOW—16 BULLS
of serviceable age, and 12 Bull
Calves. Farm is 1½ miles from town.
Can ship on Mo. Pac., R. I., or Santa
Fe. Foundation stock selected from
three of the great herds of Ohio.

### OLOVER SHORTHORNS

Herd Headed by the Cruickshank Bulls

Imp. Nonpareil Victor 132573 Sire of the champion calf and junior champion bull of 1900

...Grand Victor 115752...

Himself a show bull and sire of prize-winners.

FEMALES are Scotch, both imported and home-bred, pure Bates, and balance 3 to 6 Scotch tops.

STOCK FOR SALE. GEO. |BOTHWELL, Nettleton, Caldwell Co., Mo. On Burlington Railroad.



GLENDALE SHORTHORNS, OTTAWA, KANSAS.

Leading Scotch, and Scotch-topped American fami-lies compose the herd, headed by the Cruickshank bull Scotland's Charm 127864, by Imp. Lavender Lad, dam Charm 127364, by Imp. Lavender Lad, day saron Cruickshank. Twenty bulls for sale C. F. WOLFE & SON, Proprietors.



Imported and American Bred SCOTCH SHORTHORN CATTLE, AND

... REGISTERED PERCHERON HORSES.

The Property of

HANNA & CO., Howard, Kansas.

IMP. COLLYNIE 135022, Bulls in Service: IMP. MARINER 135024, AND IMP. LORD COWSLIP.

HEBD is rich in the best Cruickshank blood and contains 10 females imported direct from Collynie
and Uppermill. For Sale—10 bulls—
herd header—of choicest Scotch and
Gruickshank breeding. No females
for sale at present.

Registered Percherons (Brilliants) in Service.

DIRECT 18889 (by Bendago by Brilliant, dam Fenelo by Fenelon by Brilliant.) Bendago's dam the famous prise-winner Julia by Le Ferte FOR SALE—Three Pyear-old stallions by Direct

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HORSES AND MULES.

PERCHERON HORSES, and ABERDEEN-ANGUS CATTLE.

GARRETT HURST, Breeder, Zyba, Sumner County, Kansas. Young stock for sale of either sex. All registered.

FOR SALE.

Percheron stallions and mares any age: Holstein-Friesian bulls, and Poland-China boars— leading strains represented. H. N. HOLDEMAN, Rural Route No. 2, Girard, Kans.

HENRY AVERY & SON,

BREEDERS OF

### Pure Percherons.

The largest herd of Percheron horses in the west and the best bred herd in America. A choice collection of young stallions and mares always on hand. Prices con-sistant with quality. Address, or come and see at

Wakefield, Clay County, Kansas.

### Pleasant Hill Jack Farm.

PHILIP WALKER, Breeder, N MOLINE, ELK CO., KANS

25 Mammeth, Warrier, and Spanish Jacks New For Sale.

Quality and Breeding Unexcelled. Inspection and Correspondence Invited.

### Prospect Farm.



☐ H. W. McAFEE, Topeka, Kansas,

Breeder of OLYDESDALE HORSES, AND SHORTHORN OATTLE.

For Sale—25 Clydesdales, including 8 registered tallions of serviceable age, and 18 mares.
Inspection and correspondence invited.

SHEEP.

CHEVIOT SHEEP, AND POLLED DURHAM CATTLE. SMEVIOT SHEEP, AND POLLED DUNHAM CATTLE.
Some fine rams for sale. The Cheviots are rustlers
smooth, clean face, allowing clear vision to approaching danger. Write for prices and circulars.
A. E. Burleigh, Knox City, Knox Co., Mo.

ANOKA FARM RAMBOUILLET AND COTSWOLD SHEEP.



GEO. HARDING & SON Importers and Breeders, WAUKESHA, WIS.

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25 Imported, and 75 American Rams and 150 Ewes for sale. Our show flock at the Pan-American and all State Fairs this year was a sweeping success. Write us your wants and mention Kansas Farmer.

#### LIVE STOOK ARTIST.

H. L. RITCHIE, 504 N. Y. Life Bidg., Kansas City, Me. Sketching, and photographing live stock a specialty. Write for particulars.

# Excursions Southwest

Only one fare plus \$2.00 October 15, November 5 and 19, December 3 and 17. The Santa Fe most directly reaches the fertile valleys, industrial centers, and noted mining camps of Kansas, Oklahoma, Texas, Colorado, New Mexico and Arizona. Go out and see the country

#### for yourself. Santa Fe.

Address T. L. King, Agent Santa Fe<sub>7</sub> Topeka, Kansas.



## Percheron Stallions.

70 First Class Young Percheron Stallions

Now in our Shenandosh stables. Our last importation arrived October 1, 1901—mostly black, 8-year-olds, 30 imported stallions. An elegant string of 25 big two's and three's of my own breeding. Thirty years in the business. Come and see the horses.

M. L. AYRES, Shenandoah, Iowa

## Riverside Stock Farm

O. L. THISLER, CHAPMAN & C Importer and Breeder of PERCHERON, and FRENCH COACH HORSES, and SHORTHORN CATTLE.

For Sale—A few Shorthorn heifers, and Percheron stallions; also a Special Bargain on 9 Registered Hereford Bulls, 2 years old, and a few Full-blood Percheron Mares.

### WE ARE NOT THE LARGEST IMPORTERS

In the United States, neither have we all ton horses. But we do make five importations each year. Our stables at Lincoln, Neb., and at South Omaha Union Stock Yards are full of first-class Percheron and Shire stallions. If you want a good one for what he is worth, it will pay you to see us. Our horses won sweepstakes in all draft and hackney classes at Nebraska State Fair. Address all correspondence to

WATSON, WOODS BROS. & CO., Lincoln, Neb. SPECIAL NOTICE: Woods Bros., of Lincoln, Neb., have two cars of Short-horn and Hereford bulls and cows at a bargain.



## German Coach, Percheron, and Belgium Horses.

OLTMANNS BROS., Importers and Breeders, WATSEKA, ILLINOIS. 100 Stallions For Sale.

Three Importations in 1901. No other firm enjoys such buying facilities; the senior member being a resident of Germany is personally acquainted with the best breeders in France, Germany, and Belgium. We can save you money. Come and see us. We shall exhibit at the International Live Stock Exposition, Chicago, Dec. 1-7, 1901.

S. A. SPRIGGS, Westphalia, Kansas,

BREEDER AND DEALER IN

Registered Mammoth, and Imported Spanish Jacks and Jennets; Also Registered Stallions.

All stock guaranteed just as represented. Correspondence solicited.



### SNYDER BROS., Winfield, Kans.,

POLAND-CHINA SWINE; SHIRE, CLYDE, AND PERCHERON HORSES, AND POLLED DURHAM CATTLE.

For Sale at Special Prices—17 BOARS, and 25 GILTS, farrowed mainly in November and December.

They are extra well bred and very thrifty.

8 Poiled Durham Buils, of serviceable age.

17 Stallions over 2 years.

2 Mammeth Jacks.

8 Remember the three days' Combination Sale at Wichita, Kans: February 11, 1902, Poland-Chinas by Snyder Bros. and H. E. Lunt; February 12, 1902, Shorthorns by J. F. Stodder, and February 13, 1902, Draft horses by J. C. Robison and Snyder Bros.

## RAFT STALLIONS



### Percherons, Shires, and Clydes.

We have a selection that are sure to suit you. As grand a lot of young stallions, of serviceable age as can be found in the country. We do not claim to have every color or kind of a stallion, you or anybody may want, but what we claim you will find true if you pay us a visit. All of our selections are made by a member of our firm, who has been at his line of work the past decade and has absolutely a first choice from the leading breeders of Furope. Our last importation, consisting of the three great breeds, and 62 head in numbers were selected in the early part of February, before any of the shows and to-day are ready for sale. Write us, or come and see us, if you or your community are in need of the best to be found.

KEISER BROS., Keota, Keokuk County, Iowa.

### America's Leading Horse Importers

Won at the Two Last Universal Expositions

At the Paris Exposition, 1900, our Percherons won Every First Prize with a possible exception.

At the Pan-American Exposition, Buffalo, 1901, our stallions won Every First Prize including the Grand Sweepstakes over all draft breeds.

We import more horses than any other three firms in America, and more prize-winners than all others.

We buy the best, can buy them cheaper and will sell them for less than anybody else.

If you want the kind that will improve your stock of horses, call on or write—

MCLAUGHLIN BROTHERS, COLUMBUS, OHIO.

EMMETSBURG, IOWA.

LAWRENCE, KANS.



J. W. & J. C. ROBISON, Importers and Breeders,

TOWANDA, BUTLER CO., KANS. LARGEST HERD IN THE STATE.

IMPORTED, AND AMERICAN BRED STALLIONS AND MARES For Sale at all time Inspection invited. Prices reasonable.

Seventeen young

stallions for sale. Remember the three days' Combination Sale at Wichita, Kans: February 11, 1903, Poland-Chinas by Snyder Bros. and H. E. Lunt; February 12, 1903, Shorthorns by J. F. Stodder, and February 13, 1903, Percherons by J. C. Robison and Snyder Bros.



### Agricultural Matters.

Annual Report of the Secretary of Agriculture, 1901.

The fifth annual report of the Secre tary of Agriculture, Hon. James Wilson, is considerably larger than in former years, reflecting thereby the great growth and development which has attended this department during his administration.

WEATHER BUREAU.

He announces an important extension of the forecast field of the weather bureau, which now includes reports from certain points in the British Isles and on the continent of Europe, from the Azores, Nassau, Bermuda, and Turks' Island. The Atlantic forecasts based upon these reports now form part of the regular night forecasts issued in Washington. Three new forecast districts have been established—Boston, New Orleans, and Denmark. An extension of the forecast to farmers through the Rural Free Delivery is contemplated. Substantial improvements are reported in the department's system of wireless telegraphy, of which the Sec-retary states in conclusion:

"While there is much experimental work yet to be done before the present system is reliable for intership communication, or before any two systems can work within the same field without each rendering the other useless, such progress has been made by the Govern-ment experimenters that, with no interference by private systems, stations can be successfully operated over at least 150 miles of coast line, and they are now in operation on the North Carolina and Virginia coasts, and soon will be instituted between the Farallone Islands and the mainland and Tatoosh Island and the mainland, on the Pacific coast.

ANIMAL INDUSTRY.

A large portion of the report covers the subject of animal industry. The grand total of animals and animal products exported during the year exceed \$250,000,000 in value. This vast for-eign market is only preserved to our producers by the indefatigable efforts of the department and the rigid inspection exercised through the Bureau of Animal Industry. This bureau inspected for export 385,000 cattle, 228,000 sheep, and 48,000 horses and mules, and nearly 1,000 vessels carrying live stock. Imported animals were also inspected to the number of 342,000, and, where necessary, quarantined. The Secretary suggests that with the enormous interests our stock-raisers have at stake, and inspection or quarantine affording after all, a relative, not an absolute guarantee of protection, it might be well for this country to follow the example of Great Britain and exclude live stock from other countries entirely. The meat

### I Will Cure You of Rheumatism. No pay until you know it.

After 2,000 experiments, I have learned how to cure Rheumatism. Not to turn bony joints into flesh again; that is impossible. But I can cure the disease always, at any stage, and for-

I ask for no money. Simply write me a postal and I will send you an order on your nearest druggist for six bottles of Dr. Shoop's Rheumatic Cure, for every druggist keeps it. Use it for a month, and if it does what I claim pay your druggist, \$5.50 for it. If it doesn't

few doses must be drugged to the verge of danger. I use no such drugs. It is the grass, but the department is exfolly to take them. You must get the perimenting with machinery which will

disease out of the blood.

My remedy does that, even in the most difficult, obstinate cases. No matter how impossible this seems to you, I know it and I take the risk. I have cured tens of thousands of cases in this way, and my records slow that 39 out of 40 who get those six bottles pay, and pay gladly. I have learned that people in general are honest with a physician who cures them. That is all I ask. If

I fail I don't expect a penny from you. Simply write me a postal card or let-Let me send you an order for the medicine. Take it for a month, for it won't harm you anyway. If it cures, pay \$5.50. I leave that entirely to you. I will mail you a book that tells how I do it. Address Dr. Shoop, Box 529, Racine, Wis.

Mild cases, not chronic, are often cured by one or two bottles. At all druggists.

inspection service involved the inspection at time of slaughter of nearly 37,000,000 animals. Of the more than 5,-000,000 cattle inspected, the condemned carcasses were about ¼ of 1 per cent; of the 6,500,000 sheep, 1-10 of 1 per cent; and of 24,000,000 hogs, ¼ of 1 per cent. In the control of indigenous diseases, 1,500,000 inspections were made and over 45,000 cars disinfected in the Texas fever service alone. In the repression of scabies in sheep nearly 8, 000,000 animals were inspected, and over 1,000,000 dipped under the supervision of the department inspectors. In combatting the disease known as "Black Leg," the bureau distributed over 1,500, 000 doses of vaccine, the result being to reduce losses in affected herds to less than 1 per cent, where formerly it was in most cases about 10 per cent. To aid in detecting tuberculosis in cattle and glanders in horses, over 44,000 doses of tuberculine and 7,000 doses of mallein have been supplied. The secretary points out the serious evil resulting from a system of State inspection which, if it become general, would effectually prevent the marketing of live stock in some sections, and would de-stroy much of the usefulness of the federal inspection. He regards the pres ent conditions as so menacing to the in-terests of the cattle industry in the West and Southwest that he has requested the Attorney General to cooperate in bringing the matter before the Supreme Court for decision as to the constitutionality of these State laws. This request has been favorably re ceived and the assistance of the department of justice promised.

PLANT INDUSTRY.

The organization of the bureau of plant industry is reported. It has brought together in one group investigations in plant physiology and pathology, botany, grasses, and forage plants, pomology, and the experimental gardens and grounds, including the experimental farm at Arlington and the introduction of foreign seeds and plants.

PLANT PHYSIOLOGY AND PATHOLOGY.

Investigations in plant physiology and pathology have been lately devoted to the study of cotton diseases, diseases of orchard fruits, and of forest trees and construction timber. An interesting discovery to cotton growers is reported of a cow-pea resistant to the fungus that destroys the cotton roots. The cow-pea being used in rotation with cotton, the securing a resistant cowpea will be of the greatest possible value to cotton growers. Remarkable success is reported in experiments in plantbreeding to secure samples of cotton resistant to wilt and other diseases. Numerous valuable hybrids have also been developed. One from an American upland cotton and an Egyptian variety promises to be greatly superior to either parent. The department has been for several years trying to secure by breeding a race of oranges resistant to frost. A cross of hardy Japanese with the Florida sweet orange has resulted in the hardiest evergreen orange known and there is promise of ultimately securing a fruit both hardy and or good quality. Considerable success has also been attained in breeding raisin grapes resistant to the disease known as sistant to "coulure."

BOTANICAL INVESTIGATIONS.

In botanical investigations important work has been done on seeds, improvement of crops, and methods of crop production in our tropical possessions, and prevention of losses to cattle in the West from eating poisonous plants. The low germination of commercial samples of Kentucky blue-grass seed was investigated. It was found that there is a stage in harvesting this seed when heat-I will pay him myself.
I have no samples. Any medicine that can affect Rheumatism with but a stroy the germination of the seed. This ing takes place in the tops of the grass, can be avoided by methods of nandling perimenting with machinery which will dry the moist seed without permitting it to heat. Comparative experiments regarding the relative value of American and European clover seed give re-sults strongly in favor of the former, at least under conditions prevalent in this country. A remedy has been found which, when promptly administered, is effectual in the treatment of animals poisoned from larkspur and poison camas. The agricultural conditions of our new possessions are being thoroughly studied, and special attention is being given to the production in these possessions of tropical crops, for which the United States pays out mil-lions of dollars annually. Raising coffee

TO CURE A COLD IN ONE DAY

in Porto Rico has been the subject of special study. Our annual importations of this valuable crop now amount to \$70,000,000. The Secretary asserts that much loss has resulted to the cattle industry in the West in recent years owing to the injudicious management of The department's experiments show that much could be done, under proper control, to restore the ranges to their original condition, and he re-commends action by Congress, giving the President authority to secure for the experimental needs of his depart-ment such tracts of public range lands as may be necessary.

POMOLOGICAL INVESTIGATIONS.

The pomological investigations have been especially directed to the exten-sion of our fruit markets abroad and to the encouragement of the domestic production of fruits hitherto largely imported. Prune growing has been made the subject of special study; also the growing of European grapes in the South. Attention is called to the rapid increase in our exports of apples, since the magnificent showing made by this department of this fruit at the Paris Exposition.

ARLINGTON FARM-TEA EXPERIMENTS.

Progress is reported in preparing the Arlington farm to serve in conducting experiments, as an adjunct to the department. The Secretary cordially commends the experimental work now carried on at Summerville, S. C., under the direct supervision of Dr. C. U. Shepherd. About 4,500 pounds of high-grade tea, which found a ready market, were produced here during the year.

INTRODUCTION OF VALUARLE SEEDS AND PLANTS.

Great activity has characterized the introduction of valuable seeds and plants from abroad, with most satisfactory results. The development of the rice industry in Louisiana and Texas since the introduction by the depart-ment of the Japanese rice, during the past three years, has been remarkable. At the same time our imports of this product have decreased from 154,000,000 to 73,000,000 pounds. The United States imports yearly nearly \$800,000 worth of macaroni. Macaroni wheats have been introduced in the past two years very successfully into the Dakotas and also into Kansas and Nebraska. Fully 90 per cent of the date palms introduced in recent years from Africa are now growing vigorously in Arizona and southern California. This year a collection of the choisest varieties in Egypt have been obtained. Progress is reported in the introduction of Egyptian cotton. The imports of this product now amount to about \$8,000,000 yearly.

CONGRESSIONAL SEED DISTRIBUTION.

In regard to the Congressional seed distribution, the Secretary states that he has endeavored to meet the wishes of Congress in every way possible, and to secure seeds of as high a character as can be obtained under the conditions under which the work is done. It has been arranged to send out cottonseed, tobacco seed, sorghum seed, and sugarbeet seed, and grasses and forage plants under the direct auspices of the department, and not through the contractor.

An extensive review of the work of soil survey shows that the areas surveyed and mapped during the year exceed 3,500,000 acres, making a total of nearly 6,000,000 acres surveyed during the past two years. The field work, including preparation of reports, transportation, and supplies, has cost an average of \$3.26 per square mile, or about 51 cents per hundred acres. A part of the expense has been paid by State organizations, and effective cooperation has been had with the stations. The demands for soil survey in various parts in excess of the ability of the bureau to comply. The Secretary enumerates sundry important results in the work of the survey, but dwells especially upon what has been achieved in connection with tobacco. Especially successful have been the experiments made by the bureau in the growing of a fine type of Sumatra leaf on certain soils in the Cin-necticut Valley. During the past year nearly 43 acres have been grown under the direct control of the department experts. An interesting feature of the experiment is that the bulk of the cost. estimated at \$20,000, has been invested by the farmers themselves, and it is gratifying to record that their enter-prise has been rewarded far beyond their expectations. The recommendations of the department have also been followed in the methods of curing to-bacco in Pennsylvania, with the result of effecting a saving from the ravages Take Laxative Bromo-Quinine Tablets. All druggists refund the money if it falls to cure. E. W. Grove's signature is on each box. 25 cents. of the black rot, exceeding ½ million



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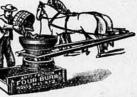
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dollars. Urgent demands for assistance dollars. Urgent demands for assistance in the tobacco industry have reached the department from New York, Wisconsin, Texas, and Florida. Referring to the reclaimation of alkali lands, to which attention has frequently been called in the reports of the soil survey, the Secretary says that he is more and more convinced that to carry the lesson home to the individual it will be necessary for the department itself to undertake a practical demonstration of the efficiency of drainage. The necessity of a special study of climatology in connection with the soil work is pointed out. "The time has come," says the Secretary, "when the work should be taken up on a scale commencement be taken up on a scale commensurate with the extension of at least two or three crop interests. It is certain that the immediate benefit to the farmers will amply repay expenditure."

WORK OF THE BUREAU OF CHEMISTRY.

In this bureau investigations into the composition, nutritive value, and adulteration of food products have been continued. This work during the year was devoted particularly to the study of preserved meats, the composition and nutritive value of the preserved article being compared with the original, and the preservatives, if any were employed, the preservatives, if any were employed, determined. Food products imported into this country, and suspected of adulteration or of containing injurious constitutents, have also been examined. The Secretary is authorized to inspect, the subject of Chemistry. American content of the secretary is authorized to inspect, the secretary is authorized to inspect, through the Bureau of Chemistry, American food products intended for export. Unfortunately, Congress has not provided appropriations adequate to the proper execution of this law. The Secretary adds that it is important that our food products going should be purely and the products going should be purely and the purely a food products going abroad be pure and wholesome, and that we should protect our exporters against discrimination in foreign countries.

In connection with the Bureau of Forestry, the Chemist is taking up the work of forest chemistry, and is studying forest trees in their relation to the soil and the products they yield. Among the chemical industries immediately dependent on forest productions are the tanning industry, manufacture of wood pulp, production of wood spirit, charcoal, and other products. The sugar laboratory of the bureau continues to study all the chemical problems relating to the production of sugar-producing plants and the manufacture of sugar. The chief part of this work is devoted to the study of sugar beets. The work that the Bureau of Chemistry is doing for other departments of the Government is considerable and constantly increasing. By agreement with the Secretary of the Treasury, the Chief of the Bureau has been designated as super-visor of sugar tests in the laboratories of the appraisers in the ports of New York, Philadelphia, and Boston. The other departments to which the aid of the Bureau of Chemistry has been extended are the War Department, the Post-Office Department, the State Department, and the Department of the In-

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In coöperation with the Office of Public Road Inquiries, a laboratory for the study of road material has been organized in the Bureau of Chemistry. The prime object of this laboratory is to aid road builders in selecting the best available materials in their localities.

WORK OF THE BUREAU OF FORESTRY. Another of the newly organized bureaus is that of forestry. The Secretary reports that this bureau is co-öperating with the federal Government, with several States and many private owners in handling their forest lands. Altogether, assistance has been asked for a total area of 52,000,000 acres, of which 4,000,000 are held by private owners. The work of forest management is reviewed in some detail. During the year nearly 800,000 acres under private owners were examined by representatives of the bureau, and four detailed working plans, covering 226,000 acres were prepared. The working plan for the Black Hills forest reserve was completed and working plans were undertaken for the Prescott and Big Horn and the Priest River reserves.

Forest investigations include study of commercial trees, and economic tree planting, of forest fires, grazing, lumbering, forest productions, and other important lines. The region containing the proposed Appalachian forest reserve was examined in cooperation with the United States Geological Survey and nearly 10,000,000 acres were mapped, lands classified, and the forests carefully studied. The Secretary regards the creation of the proposed forest reserve as urgent in order to pro-

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tect the head waters of important streams, to maintain the already greatly impaired supply of timber, and to provide a national recreation ground. Upon the request of the Secretary of the Interior, the effects of grazing and forest fires were investigated on 12 of the forest reserves.

In the study of economic tree planting in cooperation with farmers and others in making forest plantations, 46, 145 acres were examined and plans were prepared for nearly 6,000 acres, while 148,000 applications for tree-planting plans were received.

THE OFFICE OF EXPERIMENT STATIONS

The Secretary reports as the result of a broad inquiry made through the Office of Experiment Stations that by far the largest part of the work of the stations has direct relation to the important agricultural interests of the communities

in which they are located.

The work of the stations is becoming better understood by the farmers, and a broader, deeper foundation of scientific inquiry is being laid each year. Coöperation between this department and the stations continues to increase, and the value of those cooperative methor's to the agricultural interest are very generally acknowledged. As a result of the practical confidence so attained, Congress and the State legislatures have shown a disposition to be liberal with this department and with the stations. The movement for the separations from that of president of the college has advanced, and at present there are but 11 States and Territories in which the college president exercises the functions of director of the station. At the same time, the amount of teaching required of station officers has been

Inlet, and at Rampart in the Yukon Valley, are regarded as distinctly encouraging. From all the evidence re-ceived at the department, it seems clear that agriculture may be sufficiently established in this territory to serve as an important aid to the mining, lum-bering, and fishery industries. During the year a station has been established in Hawaii. Among the first work at this station was the planting of a taro, with the special object of studying the diseases seriously affecting that crop. Probably 50 per cent of the working population in these islands depend on taro for their daily food, and, owing to these diseases and the attendant deterioration of the crop, the price of taro has increased 500 per cent in the last decade. Some other diseases of fruits and vegetables call for study, and poultry experiments have been inaugurated with a view to increasing the supply of poultry. It is reported that live chickens sell in Honolulu at \$15 a dozen, and

eggs at 40 to 50 cents a dozen. Hogs bring from 10 to 17 cents a pound on the hoof, and experiments have been undertaken in the feeding of swine with various tubers and roots

The station at Porto Rico has not yet been fully established, owing to the difficulty of securing suitable land for the purpose. In the meantime, such investigations will be undertaken as can be pursued on lands leased or loaned by persons ready to engage in cooperative work with the station director. Some preliminary investigations in coffee cul-ture have already been arranged for.

The Secretary earnestly recommends that the annual appropriations for all these stations be increased to \$15,000, the same as the National Government contributes at present to all of the other stations in the various States and Terri-

THE PHILIPPINES.

He regards it as extremely desirable that agricultural investigations should be undertaken in the Philippine Islands under the war department and in cooperation with the department of agriculture. In furtherance of this work, the Secretary recommends an additional appropriation of \$15,000 for the ensuing fiscal year "To institute agricultural investigations in the Philippines, and, if feasible, to locate and maintain an agricultural experiment station there."

AGRICULTURAL EDUCATION.

An increase in college extension work in agriculture is noted and stress is laid on the movement for the establishment of secondary schools of agriculture and the introduction of the elements of agriculture into the rural schools, as hopeful signs of progress in agricultural ed-ucation. The Secretary suggests that his department, already giving aid to materially reduced.

The experiments of the station in Alaska, with headquarters at Sitka, and subsidiary stations at Kenai, on Cook Inlet, and at Rampart in the Yukon by furnishing schools with collections of specimens of insects, of plant diseases, and other illustrative material, and by supplying the teachers with such publications of the department as may be useful to them.

AID TO FARMERS' INSTITUTES.

He reviews very fully the great development in the work of farmers' institutes. In 1899 over 2,000, farmers' institutes were held in this country, attended by over half a million farmers. These were held in 43 States and Territories. The Secretary thinks that there is room for much useful work by his department in aid of this and other movements for the education of our farmers in the improvement of our agriculture. He has, therefore, asked for a special appropriation of \$5,000 to enable the Office of Experiment Stations to enlarge its work with a view to giving definite aid and encouragement

to farmers' institutes in the different

DIETARY STUDIES.

The dietary studies, experiments in cooking, digestion, and metabolism have been conducted in various parts of the United States in coöperation with experiment stations, agricultural colleges, and universities. The results of nutri-tion investigations already made should, the Secretary thinks, be practically and beneficially applied to the feeding of men wherever a considerable number of persons are to be fed on a systematic plan. He instances the hospitals for the insane in the State of New York, the annual cost of food for which is over \$1,000,000, and states that of the \$26,000,000 expended for 100,000 persons maintained in the public institutions in New York State alone, \$6,000,000 is expended for food. He urges investigations to determine the best dietary for the use of our soldiers and civil officers in tropical regions and states that a in tropical regions and states that a special appropriation of \$5,000 has been asked for for the study of the food sup-ply and consumption of people living in the tropics.

IRRIGATION MATTERS.

The Secretary devotes a great deal of space to a discussion of irrigation investigations. These have been conducted through the Office of Experiment Stations, and embrace (1) studies of ir-rigation laws and the social and indus-



trial institutions of irrigated agriculture, (2) investgations of the methods by which water is conserved, distributed, and used.

TITLES TO WATER.

In reference to the first subject the Secretary states that the character of the titles to water finally recognized will do more than all other influences combined to determine whether the Western farmers ought to be tenants or proprie-tors. Naturally, this makes the disposal of the water resources of the West a matter of vital importance not only to the persons directly interested, but to the country at large. Every considera-tion which justified the general gov-ernment in the control, the survey, and disposal of public lands, applies equally to the orderly and just establishment of titles to water by public authority, either State or national. He points out the confusion and trouble and almost endless litigation frequently attending the settlement of this question, and de-clares it to be absolutely necessary that simple and final method of determining and protecting rights to streams should be provided. In the meantime the conditions, as they exist in arid States, are being carefully studied by the department.

#### IMPROVED INSTRUMENTS.

Irrigation experts of the department have designed improved instruments for measuring water, by which registers are now furnished to irrigators at about one-half the cost of the foreign instru-

IRRIGATION IN HUMID REGIONS.

Attention is directed to the growth of irrigation in the humid regions, and the remarkable fact is stated that in Louisiana more money has been expended on pumping plants in the past two years than in any arid State. By irrigation, rice growing in Louisiana and Texas has raised the price of land originally worth \$5 to \$10 per acre to \$50 and even \$100 per acre.

LEGISLATION BY CONGRESS.

The Secretary expresses the belief that irrigation will, in the near future, become a subject for legislation by Congress, there being important reasons it should have the attention of that body. At the same time, he says, that those best informed believe that the uncertain character of water rights can only be remedied by a larger measure of public control and the making of certain classes of irrigation structures permanently public works. These, it is urged, should not be owned by private parties, and the argument produced in favor of constructing reservoirs by act of Congress is the same which justifies setting aside forest reserves and the maintaining of a force to control them. On the other hand, the Secretary points out that an appropriation of money by Congress to construct such irrigation works will bring the country face to face with a new Government policy, and will carry a larger measure of public control over the water resources of the West than has hitherto prevailed or been sanctioned by public sentiment.

LAND LAWS EFFECTING IRRIGATION.

He reviews the influence of land laws on irrigation development, stating that laws which control the disposal of 500,-000,000 acres of arid public lands must have a vital influence upon the success of irrigated agriculture. He condemns the desert-land act, stating that 640 acres is more land than a man of moderate means can cultivate under irriga-Cutting down the entries from tion. 640 to 320 acres is an improvement, but he believes in the entire repeal of the desert-land act and in requiring settlers or homesteaders to cultivate as well as live on their land.

#### THE GRAZING LANDS.

Referring to the grazing lands, he says probably 400,000,000 acres of the public domain has no agricultural value except for pasturage. It is at present an open common, with no laws for its protection or disposal. He refers to the frequent conflicts of the farmers under irrigation with the range stockmen, and recommends, as a remedial and beneficial measure, the leasing of the grazing land in such a way as not to interfere with the homesteader. The rentals, he believes, would amount in the aggregate to a large sum, which could be appropriately applied to the reclamation of the irrigable lands. He points out that such leasing is not an experiment, to it has been successfully tried, although in a limited way, in Colorado, Idaho, Montana, Nebraska, Utah, and Wyoming. He winds up the discussion of this subject by presenting the following conclusions:

That private enterprise will have to be supplemented by public aid in the construction of certain classes of

irrigation works if we are to secure the largest development of Western agricul-

"(2) That reservoirs located in the channels of running streams should be public works.

"(3) That the first step toward national aid for irrigation should be the passage of enlightened codes of water laws by the States to be benefited.

That the land laws should be modified by repealing the desert act and by requiring cultivation as well as residence on a homestead.

"(5) That the nonirrigable grazing lands should be leased in small tracts so as to unite the irrigable and the pasture

WORK IN ENTOMOLOGY.

Under this head the Secretary reports the successful introduction and establishment in California of the fig-fertiliz-ing insect, with the result that it has been thoroughly established at several points, and that the Division of Entomology is now ready to supply fig insects to any grower after he has succeeded in raising to the bearing stage caprifig and Smyrna fig trees. The discovery is reported by an expert of the division sent to Asia for the purpose, that the San Jose scale is not indigineous to the Japan, but that it is so in north China. It has been found in a section of that country where there have been no fruit importations, and all fruits are of native sorts. Further, in this district, it was found to have a natural enemy—a ladybird beetle, of which the expert in question has collected many specimens and forwarded them to Washington, and steps will be taken to acclimathis important species. This importation will doubtless prove of extreme value to fruit growers in this country. valuable importation of the ladybird beetle was of one which feeds upon several distinct species of plant lice accidentally imported into this country from Europe.

PUBLIC BOADS.

In establishing an Office of Public Road Inquiries, the object was to promote the improvement of public roads throughout the country. Efforts were first directed to ascertain the condition of the roads, the state of public opinion in regard to their improvement, the obstacles in the way, and the best methods to be employed in securing better roads -such has been the work of this office up to the present. For spreading information and awakening interest, nothing has been found so effectual as the "ob ject-lesson" or sample roads which, during the past year, have been built in 9 States under the advice and supervision of the office. In building these sample roads, machines have been loaned manufacturers and carried free by the railroad companies, while the local com-munity furnishes material and labor. During the year, for the better carrying out of the work of the office, the United States was divided into 4 divisions, the eastern, middle, western, and southern, each under a special agent.

PUBLICATIONS.

In the performance of its duty to diffuse the information acquired through its several bureaus, divisions, and offices, the main dependency is upon the issue and distribution of publications. This work, therefore, affords a fair reflex of the intelligence and activity of the investigating branches of the de-partment. The secretary deplores the fact that this condition has not been as fully recognized in the appropriations as it should be, and the work of publication has therefore not kept pace with the wonderful growth and development of the department. He deplores partic ularly the unavoidable suspension to-ward the close of the year of the work both of printing and distribution, and that no less than 35 worthy employees had to suffer distress by being fur-loughed through no fault of their own. there were issued during the year 606 separate publications, aggregating nearly 8,000,000 copies. Nearly 3,500,000 copies were farmers' bulletins, of which two-thirds in round numbers were distributed under Congressional orders With the increased appropriation and the accumulated copies, this year's sup-ply of these bulletins will, under the present law, which assigns four-fifths. instead of two-thirds, to the use of Congressmen, make the allowance of each senator, representative, and delegate 15,000 copies. A special building has been rented to be devoted exclusively to the storage and shipment of farmers bulletins, of which not less than 7,000, 000 will have to be printed this year. The amount provided, however, for material and labor in their distribution is quite inadequate and must be supplemented by a special appropriation, if

### FAINTING.

#### Is it Only a Fashionable Feminine Accomplishment?

In the novels of a generation or so back, fainting seems to be generally regarded as an accomplishment of a fash-ionable woman. Whenever there was an awkward situation to be covered the woman discreetly and decorously fainted. It is also insinuated that place as well as time had to be considered in the fitting exercise of this accomplishment. There must be a convenient couch to lie on and still more there must be a pair of manly arms to support the limp burden as it swayed and slipped to the ground. Women did not as a rule exhibit this accomplishment for the benefit of their own sex, but only when some observant male was at hand to see and succor.

The heroines of the modern novelist are not given to fainting. The "accomplishment" seems to have gone out with the working of samplers. Weakness was once a woman's weapon. Now she Pleasant Pellets), have cured me. I can



despises weakness, and all its symptoms. It may be taken for granted therefore that now-a-days if a woman faints it is because of genuine weakness that she can not conceal. Instead of wanting male observation she avoids it and despises herself for her own frailty.

WHY WOMEN FAINT.

In general women who faint are more liable to do so at some special periods than at others, and the libality to faint is generally increased with the recurrences of the periodic womanly function. From this fact alone it might be fairly argued that there is a close relation be tween local womanly weakness and the physical weakness which causes women to faint. Womanly ailments surely undermine the general health. Irregularity, suppression, profusion, unhealthy drains, inflammation, ulceration, and female weakness, are the diseases which drain the vitality and weakens general health of women and render them liable among other things to "fainting spells." Cure the local womanly diseases and there is at once a gain in the general

"It gives me great pleasure," writes Miss Ella Sapp, of Jamestown, Guilford Co., N. C., "to thank Dr. Pierce for the great good received from the use of his 'Favorite Prescription' and 'Golden Medical Discovery.' I had suffered for three years or more at monthly periods. It seemed as though I would die with pains in my back and stomach. I could not rise to my feet at all without fainting; had given up all hope of ever being cured, when one of my friends insisted upon my trying Dr. Pierce's Favh hut little faith I tried it, and before I had taken half a bottle I felt better, had better appetite and slept better. Now I have taken two bottles of 'Favorite Prescription' and one of 'Golden Medical Discov ery,' and am happy to say I am entirely cured, and all done in two months' time when all other medicines had failed to do any good at all."

met. Referring to the great demand for the yearbook and the growth of the department, the secretary points out the inadequacy of the quota assigned the department. When the edition of this work was 300,000 copies, 30,000 were placed at the disposal of the department, the same as now, notwithstanding that the edition to-day is half a million copies. The demand for the publica-tions of the department continues to be the demands of Congressmen are to be greatly in excess of its ability to supply. 140 persons are employed, including ed-

WEAK WOMEN MADE STRONG.

Doctor Pierce's Favorite Prescription makes weak women strong and sick women well. It does not matter how great is the weakness or how chronic the sickness. "Favorite Prescription" may be used with the utmost confidence and assurance that it will cure and strenghten if the disease lies within the bounds of a medicinal cure. In many a case where local physicians have said there was no aid in medicine and pointed to a hazardous operation as the only alternative to a life of suffering, the use of Dr. Pierce's "Favorite Pre-scription has resulted in a perfect and permanent cure. It is such cures as these which have given "Favorite Prescription" pre-eminence among medi-cines for the cure of woman's diseases.

"I suffered for twelve years with fe-male trouble," writes Mrs. Milton Grimes, of Adair, Adair Co., Iowa, "which brought on other diseases heart trouble, Bright's disease, nervousness, and at times would be nearly paralyzed. Had neuralgia of stomach. I can freely say your medicines (nine bottles is all, five of 'Favorite Prescription,' four of 'Golden Medical Discov-

> work with comfort now, but before I would be tired all the time and have dizzy headache, and my nerves would be all unstrung so I could not sleep. Now I can sleep and do a big day's work, something I had not done for over eleven years before.

"You have my consent to publish this testimonial, hoping it will be the means of helping some other invalid."

WOMEN ARE THE WITNESSES. It is the women who have acclaimed Dr. Pierce's Favorite Prescription as the greatest and best medicine for the cure of womanly diseases. The witnesses to its power are the women it has cured. There are hundreds of thousands of healthy wo-

men to-day who have been "Favorite Prescription" to restored by a happy, useful life after years of suffering, and years of useless medical treatment. If you are suffering from any disease peculiar to women there is every motive for you to try Dr. Pierce's Favorite Prescription and every en-couragement to expect a complete cure. No matter how severe the disease, the wonder will be not that "Favorite Pre-scription" cures you, but that it should fail to do so. Its cures are so uni-form, so reliable, that if it did not cure you, you would stand alone, a wonder and a marvel, a solitary exception among hundreds of thousands of weak women who have been made strong and sick women who have been made well by the use of this great remedy.

"Favorite Prescription" establishes regularity, dries weakening drains, heals inflammation and ulceration, and cures female weakness. As a tonic and nervine for weak, worn-out, run-down women, it is without an equal. It promotes the appetite, tranquilizes the nerves, and induces refreshing sleep.

If you are led to the purchase of "Favorite Prescription" because of its remarkable cures of other women, do not accept a substitute which has none of these cures to its credit.

#### A HELP FOR WOMEN.

"I received the 'Medical Adviser' and am much obliged for it," writes Mrs. Elmer D. Sheare, of Mount Hope, Lancaster Co., Pa. "I would not part with it if I could not get another in its place, as it is a help every woman should have."

Dr. Pierce's Common Sense Medical Adviser, containing more than a thousand large pages and over 700 illustrations is sent free on receipt of stamps to pay expense of mailing only. Send 31 one-cent stamps for the volume bound in cloth, or only 21 stamps for the book in paper covers. Address Dr. R. V. Pierce, Buffalo, N. Y.

Many of these-over 24,000 copies last -were sold by the Superintendent of Documents. This is almost three times as many as the sales made by that officer of the publications of all other Departments of the Government. A special appropriation has been asked for to carry on more effectively the work of illustration, which the condition of the appropriations in recent years has caused to be somewhat neglected. Over Thi block Also CHA

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itors, proof readers, artists, clerks, and laborers, in the work of publications, and these are greatly hampered, owing to their segregation in different buildings in crowded and inadequate quar-

EXPORTATION OF AGRICULTURAL PRODUCTS. The highest record previously at tained in the export of agricultural products—in 1898—was surpassed by over \$90,000,000 in the fiscal year of 1901, when a value of over \$950,000,000 was reached. Of the merchandise sent abroad during the year, 65 per cent originated on the farm. Of foreign customers for our agricultural products, the United Kingdom stands first, taking over 50 per cent. The next most important markets are afforded by Germany, France, the Netherlands, and Belgium, in the order named. The Section of Foreign Markets has begun the preparation of a most comprehensive report on the character of our agricultural importa-tions received by the United Kingdom from countries other than the United States. The importance of this report is evidenced by the fact that large as were our exports to the United King-dom, they comprised only one-third of the foreign farm produce purchased by that country. Special statistics have been compiled by the Section of For-eign Markets relative to our trade in farm products with our new insular possessions. Our agricultural exports to Cuba, Poto Rico, and the Philippines during the year comprised about 53 per cent of the domestic merchandise sent

#### ceeded our exports by just \$30,000,000. ACCESSIONS TO THE LIBRARY.

to these islands. Our imports of agricultural products from these islands ex-

Over 4,000 books and pamphlets were added to the library during the year. These included many books of special value in the work of the department and a large number of scientific periodicals. Every effort is made in the library of the department to meet the demands occasioned by the constantly broadening fields of investigation entered upon by the department and to aid educational and scientific workers engaged elsewhere upon kindred work. The department library is regarded as the headquarters of agricultural literature, and should be able to meet demands from without as well as within the department. The secretary calls attention to the danger of destruction by fire of the 70,000 pamphlets and books now in the library owing to the character of the building at present occupied by the department.

#### ACCOUNTS AND DISBURSEMENTS.

Congress appropriated \$3,303,500 for the United States Department of Agriculture for the fiscal year ended June 30, 1901, being an increase of \$558,920 over the appropriation for the preceding year. When all accounts shall have been finally settled the payments will amount to about \$3,220,000.

The regular appropriation of \$15,000 for each of the 48 agricultural experiment stations in the several states was also made.

On June 30, 1901, the unexpended bal ance of the appropriations for the year 1899, amounting to \$28,899.27, were covered into the treasury.

During the year \$6,340 was paid for rental of leased buildings in Washington. Owing to inadequate accommodations Congress, at the last session, provided for the lease of additional buildings, and the rental for the fiscal year 1902 will exceed \$10,000.

#### BIOLOGICAL BURVEY.

The Survey is engaged in mapping the natural boundaries of the crop belts of the country. Its aim is to furnish farmers with lists of products likely to be successful, so far as climatic conditions go, in different parts of the country. During the past season the work mapping the life zones and crop belts has been continued, particulari as and California. A fiber plant, closely related to the Mexican istle or Tampico plant, is found growing in great abundance over a large part of the arid Sonoran zone. In view of the great quantity of fiber of other species of agave imported into this country (\$12,-000,000 worth in 1900) the Texas spe-

cies is likely to prove of great value. In response to constant complaints, the survey has prepared and distributed a circular of direction for the destruction of prairie dogs, and is now conducting experiments in the Dakotas, Nebraska, Kansas, and Texas, with a view to discovering remedial measures against this pest, cheap enough for general use. It has been discovered that the Bullock oriole and the California least tit feed extensively on the orange and olive. In Texas the large blackbirds, known as jackdaws, and which have been slaughtered in great numbers for the millinery

their feeding habits in the rice and cap-bage-growing districts. In addition to its other duties, the survey is charged with the general supervision of matters relating to game protection. In aid of the preservation of native birds and game it has published bulletins on the laws governing the transportation and sale of game, digests of State game laws, etc. Carrying out the provisions of the Lacey act, the secretary acknowledges his obligations to three other Executive Departments, the Treasury, Interior, and Justice, to several railroad and express companies, and to many State officials and individuals. Under the system of permits established for the transporta-tion of foreign wild animals and birds, 186 permits were issued during the year, covering the entry of 350 animals and nearly 10,000 birds. Numerous violations of the laws regulating interstate commerce and game have been reported to the department and in many instances it has ben called upon to assist in prosecuting the offenders.

#### THE DIVISION OF STATISTICS.

The work of this division consists largely in the preparation of reports relative to the principal products of the soil, including the extent and geographical distribution of the area of production, the condition and prospects of the crops during the growing season, and the quantity, quality, and disposition of the products harvested. It has included also reports on various branches of rural economics, such as transportation, wages of farm labor, cooperation in agricultural industries, etc. An urgent demand exists for broadening the scope of the work of this division. But this can not be done without enlarging its appropriations. Telegraphic interchange of crop reports has been arranged for with the governments of some of the principal grain-growing countries of Europe. In furtherance of the plan to place the crop reports in the hands of the farmers as early as possible, a system of cards containing the most important points of the Statistician's monthly report has been adopted. These cards are mailed promptly after publication of the telegraphic summary to postmasters throughout the country with the request that they be promptly displayed in their offices. The secretary recommends the enlargement of the division under bureau organization.

#### CONCLUSION.

The report concludes with a review of the development of agriculture and commerce during the past twenty years, and of the contributions by the department of agriculture to the progress of events and the building up of domestic and foreign trade. The secretary says that co-incident with this growth numerous institutions have grown up in this country and abroad, devoted to the application of science to the service of agriculture, thus creating a great demand, at good salaries for the right sort of men. Each nation is seeking to extend its productions, and is depending more and more upon the aid of science. Men combining knowledge with practical experience and ability are hard to get, hence the department has to face the necessity of paying much higher salaries or of being compelled to either lose opportunities of getting the best men or to lose some of those who, under its training, have developed such qualities as make them exceptionally valuable.

He concludes by saying that he would urge upon Congress, in the strongest terms and for the best interest of the country, such liberality as will enable him to obtain and retain the best men that can be found to fill the important places at his disposal.

#### The Agricultural Experiment Stations.

Some excellent suggestions to experiment stations are offered by a late writer in the Iowa Homestead. He says:

THE EXPERIMENT STATION FOR EXPERI-MENT.

The experiment station is essentially intended for experiment and not for the recital of experience. There is this difference between the two, as was defined by Coleridge, when he said an experi-ment was the headlight in the bow of the boat throwing light on things ahead, while experience was a light in the stern making clear the results from what has been passed over. If the experiment station does not carry on investigations which help the farmer to forecast his work, it is not serving its purpose. If it simply relies on experience, it is then entering a field in which the farmers are much stronger than the station may hope to be. The application of this observation is very of-

trade, are particularly useful owing to ing but experience. While such bulle-their feeding habits in the rice and capwhile they may be properly the work of a department, such as that of the issuing of farmers' bulletins by the government, yet it can hardly be claimed to be a legitimate feature of the work of the experiment station. Such works mean a continuous discussion of old and settled subjects. For instance, there is hardly a farmer who has ever fed any stock but knows that it is more satis factory in results and labor to feed them in yards than it is to put them in stalls, under Western conditions, and yet we find at this late day the reports of experiments bearing on these prac-tices. Again, as late as this fall, a discussion of the codling moth continues to be a subject for discussion. The same old illustrations, which should be tire-some to everyone who has taken any interest in bulletins or station work, are still doing service, much the worse for wear, and in other ways showing their ancient origin. While it may be possible that there are some circumstances reduring the repetition of this information, yet it would be hard to justify their publication without at least the addition of something new in regard to them. These are single instances among many which show that all the stations are not considering the desirability of doing original work, and especially that which is applicable to the State conditions.

#### STATE PROBLEMS.

It adds greatly to the effectiveness of station work and gives each station a peculiar reason for existence, when the attention of those in its employ is turned towards the solving of State problems. There is a vast duplication of feed-ing experiments, which might have been prevented had the different stations realized that many of these experiments were capable of being generally applied. For instance, a hog feeding experiment at the Wisconsin station or a steer feeding experiment at the Iowa Experiment Station, or any of the older stations where they had the best equipment for carrying on these and the experiments are thoroughly studied out, should be generally accepted on the points investigated, but instead of this being so we find work of this kind being con-tinually duplicated, at considerable ex-pense. Of course, some of these questions have direct relation to the State conditions, and in such instances their duplication is justifiable. It is unfortunate, too, that there is not a more liberal spirit shown in accepting the results of other investigators. There is a tendency for each investigator to feel that because he has done the work it is so much better, so much more accurate than that which has been accomplished by some one else.

Another feature which shows itself constantly in bulletins of different kinds is the introduction of irrelevant matter. It would be a little dangerous to cite in stances of this kind, because they are so frequent and we would likely have a great many feeling that we had them specially in view if such a reference were made. To be most effective a buletin should devote its entire attention to the matter to be discussed, and not bring in anything outside of that, independent of the amount of information that the writer of it may have on the irrelevant point.

#### SUMMARIES.

To every bulletin there should be a clearly defined summary. Some that are issued show a vast amount of work and much carefulness in the arrangement of tables, but when a conclusion is sought for, it is not in evidence. In many cases this may be legitimate, because it is not possible to form an outside opinion on the work that has been done, but it does not prevent a summary being presented. This summary should be completely free from pr dice, and it may not be out of place to say right here that this is one of the things which the investigator finds hardest to free himself from, and yet it is a most important thing to do. An investigator may nave advanced an opinion before his investigations have been made, and in such cases the tendency is very often for him to try and maintain that opinion by the work he does afterwards, though that work may teach something different.

#### BULLETINS SHOULD BE EDITED.

This work of issuing bulletins and the other press work connected with col-leges is becoming so important that the modern institution should have an editor whose business it is to edit all the matter that goes from the station. This would mean bulletins that would teach ten overlooked by many of the stations which issue bulletins that contain nother readers, and this is the class which sas Farmer.

#### How to Secure a Perfect Complexion by Natural Means—An Easy Way to Beautify the Skin and Obtain a Good Color.

It is every woman's wish to be possessed of a clear and beautiful skin, but how few are thus fortunate. A pale and sallow complexion is far too common and a fresh, healthy color is so uncommon as to be the cause of favorable remark when seen anywhere. It is a matter of fact that the condition of the skin is an index to the health of the body. Therefore, to improve a bad complexion, the right way, and the only sure way, is to go back to the cause. In almost every case it will be found that the blood is out of order and needs building up. This was the case with Miss Gracie B. King, of No. 35 Russell street, Lewiston, Me.

"My color had left my face," she says, "and my health failed. I suffered from nervousness, dizziness, and loss of appetite; not enough to confine me to the bed but troublesome enough so as to interfere with my work. Oftentimes experienced a faintness at the stomach which made me feel miserable.

"During the summer of 1900 a friend who had been troubled as I was, and who had been helped by Dr. Williams' Pink Pills for Pale People, recommended them to me. I began to take them at once and had not used up a box before I felt a decided change for the better in my condition. Now I do not like to be without them."

The disease from which Miss King suffered was anæmia. It is characterized by a palid complexion, pale lips, dull eyes, tongue and gums bloodless; shortness of breath on slight exertion especially upon going upstairs; palpita-tion of the heart, feeling of impending death; weakness, loss of appetite and ambition; irregularity and pain in the natural functions of women.

The one remedy that has proved itself a specific for anæmia is Dr. Williams' Pink Pills for Pale People. These pills, taken in increasing doses, will never fail to effect a cure if used per-sistently for a reasonable length of time. They are sold in boxes (never in bulk) at fifty cents a box or six boxes for two dollars and fifty cents, and may be had of all druggists or direct by mail from Dr. Williams Medicine Company, Schenectady, N. Y. Be sure to get the genuine; substitutes never cured anybody.

the correctly written bulletin may do the most for.

In addition to the above quoted observations it may be said that the field of original research in agricultural science has as yet been but sparingly occupied. The problems demanding solution are legion, and the opportunities for making a great name in the world are realized by but few.

But it ought to be at once and for-ever understood that the experiment stations are not for teaching what is already known, but are charged with finding out what needs to be known, with doing that which has not been done.

#### Farmers' Institutes.

The following dates and assignments from the agricultural college have been arranged for farmers' institutes:

December 5 and 6, Hackney; Professors Cottrell and Mayo.

December 5 and 6, Burrton, Mrs. Cal-

vin and Professor Dickens. December 6, Belmont, Professors Otis

and Walters. December 7, Turon; Professors and Walters.

December 9, Hazelton; Professors

Otis and Willard. December 10, Attica; Professors Otis

and Willard. December 11, Harper, Professors Otis

and Willard. 12, Anthony; Professors December Otis and Willard.

December 13, Argonia; Professors Otis and Willard. December 14, Milan; Professors Otis

and Willard.

Don't forget to use a little Prickly Ash Bitters whenever the stomach or bowels are disordered. It quickly corrects such troubles and makes you feel bright and cheerful.

In writing advertisers mention Kan-

### The Stock Interest.

#### THOROUGHBRED STOCK SALES.

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

December 10 and 11, 1901—Armour-Funkhouser ferefords, Kansas City. December 18, 1901—H. C. Duncan, Shorthorns, Kan

sas City.

January 7, 1902—Tom Clark, Chicago, Herefords.

January 14, 15, and 16, 1902—Cornish & Patten and
others, Kansas City, Herefords. C. R. Thomas, Mana-

January 22, 1902—E. E. Axline, Oak Grove, Mo., Po-land-Chinas.

January 22, 1902—E. E. Axline, Oak Grove, Mo., Poland-Chinas.

January 28 and 29, 1902—Winn & Mastin, Kansas City, Poland-Chinas.

January 28 to 81, 1902—Sotham's Annual Criterion Sale at Kansas City.

February 11, 12, and 13, 1902—J. F. Stodder, J. W. & J. C. Robison, and Snyder Bros., Wichita, Kans., Combination Sale.

February 18, 1902—J. F. True & Son, Shorthorn cattle, Wichita, Kans.

February 19 and 20, 1902—Breeders' Combination Sale, South Omaha, Herefords. C. R. Thomas, Manager.

February 28-27, 1902—C. A. Stannard and others, at Kansas City, Mo., 200 Herefords.

February 28 and March 1, 1902—Dispersion of Wavertres herd of Galloways, South Omaha, Neb.

March 19, 1902—Dispersion Shorthorn Sale. Col. W. R. Nelson, Kansas City.

March 20 and 21, 1902—Edward Paul, Dispersion Sale of Galloways at South Omaha.

March 20-27, 1902—National Hereford Exchange, Chicago, Ill. (Sotham Management.)

April 16, 1902—Nat.

sen-Angus. April 22-24, 1902—National Hereford Exchange, Kan-se City, Mo. (Sotham Management.) April 25 and 26, 1902—H. O. Tudor, Holton, Kans.,

horthorns.
May 27-29, 1902—National Hereford Exchange, Omana, Neb. (Sotham management.)
June 24-26, 1902—Natiodal Hereford Exchange, Chicago, Ill. (Sotham management.)

#### Breeders at Urbana, Illinois.

A great meeting of stock-breeders was held recently at Urbana, Ill., under the auspices of the Illinois Live Stock Breeders' Association. In adopting its resolutions it said things worth print-ing and worth reading. Here are its resolutions:

Whereas, Farmers' sons and daughters must prepare to meet equal respon-sibilities of life with other people and

Whereas, They are entitled as individuals to equal enjoyment of the advantages of life, therefore be it
Resolved, By the Illinois Live Stock

Breeders' Association that they are entitled to and ought to enjoy equal op-portunities for both elementary and higher education, and

Whereas, From the nature of the case the conditions for establishing schools of high grade are less favorable in the country than with the denser population of villages and cities, and Whereas, Without these schools the

young people of the country must either grow up without the advantages of superior schools or else leave their homes to attend city schools at considerable expense and at an age when they ought to enjoy the influence of home surroundings, and

Whereas, The plan of establishing schools of high grade even in thinly populated country districts and of gathering the pupils each morning in regular conveyances, and returning them to their homes each night has long been tried and found to be not only entirely feasible in operation but less expensive to the community.

#### AGRICULTURE IN SCHOOLS.

Resolved, That the association heartily endorses and supports the present Superintendent of Public Instruction in his efforts for the centralization of the country schools, and

Whereas, Good judgment and experience both dictate that young people shall be educated in sympathy with their surroundings, and

Whereas, Agriculture and the affairs of rural life have been not only much neglected but often derided in our pub-

lic schools, therefore be it further Resolved, That it is the deliberate judgment and the earnest desire of this association that these schools should not only import superior instruction in the ordinary branches of learning but that they should also give such instruction in the elements of agriculture and maintain such attitude toward the affairs of rural life as shall tend to an accurate knowledge of the business of farming and a wholesome respect and love for country life.

Whereas, The General Assembly has approprited \$250,000 for making an exhibit of the various industries of the State of Illinois at the St. Louis World's Fair in 1903 and

#### ASK AN APPROPRIATION.

Whereas, The leading industry of the State is the breeding and marketing of live stock, and

Whereas, The people represented in e General Assembly contemplated that liberal provision be made for a large and creditable exhibit of live stock at the St. Louis World's Fair, therefore be it

Resolved, That the Commission appointed to secure and display the resources of the State at said world's fair be requested to set apart a sum of not less than \$50,000 for prizes for live stock exhibited by Illinois breeders in 1903 at St. Louis,

Resolved, That a committee of three members of this association be appointed to present this petition for said amount to the Illinois commission having charge of the State exhibit at the St. Louis World's Fair in 1903.

#### WILL BE PRINTED.

Whereas, The annual address of Hon. A. P. Grout, the president of this association, contains many valuable suggestions and important data of especial interest to all desirous of promoting the work of the college of agri-

culture, and,
Whereas, The information contained
in said address is worthy of the widest publicity and should be published at an early date and given to the press, and all interested in the great work of the development of the usefulness of the college of agriculture and station, there-

Resolved. That 1,000 copies of said address be printed in pamphlet form for early distribution.

Resolved, That the cordial and very suggestive and appropriate address of welcome by Professor Davenport, to this association, be published in said pamphlet together with the able and comprehensive response by Hon. O. J.

#### WILL GET TOGETHER.

Whereas, The frequent interchange of experience and the opportunity for conference is a necessity to the breeders of live stock and the general farm-

Whereas, The annual meetings of the Live Stock Breeders, the farmers' institutes, and the various agricultural organizations of the State serve a most excellent purpose in stimulating thought and the adoption of the best methods of conducting farming operations, and,

Whereas, The neighborhood farmers' club composed of 12 congenial and mutually interested families of farmers has proved to be the most effective agencies for the discussion of seasonable topics of especial interest to localities, and.

Whereas, Said neighborhood farmers' clubs serve a most valuable purpose in promoting social intercourse and the study of all questions of interest to each member of the farmer's family therefore be it

Resolved, That the Illinois Live Stock Breeders' Association, most cor-dially and heartly recommend the early organization in the respective neighborhoods of our membership of farmers clubs and that all matters pertaining to our live stock industry be given de-serving prominence on the program of the monthly meetings of said clubs,

#### PRAISE OFFICERS.

Whereas, the officers of the association have conducted the business of the organization during the past year for

the best interests of all concerned, and, Whereas, The earnest, able, and constant efforts of said officers have resulted in an abundant annual harvest of the best and most advanced thought on topics of especial interest to the breeders or improved stock and the student engaged in the study of animal husbandry,

Whereas, Practical and successful breeders and teachers have contributed liberally to the vast fund of practical and much needed information pertaining to the breeding, feeding, and marketing of live stock and animal products, there-

That cordial and hearty Resolved. vote of thanks be and is hereby extended by this convention to said officers and speakers for the very creditable and acceptible services rendered.

Resolved, That a full measure of our gralitude be and is hereby extended to y of Illinois, for rooms provided for this meeting and the gracious hospitality extended that has resulted in a full measure of enjoyment and benefit to all in attendance.

#### ENDORSED THE COLLEGE.

A report endorsing the Illinois Agri-cultural College was unanimously adopt-

ed as follows:
"Your committee to whom was referred the matter of reporting upon the condition and wants of the College of Agriculture, University of Illinois, beg leave to report that we find an able, progressive, and deeply interested faculty in charge or an earnest, bright, ambitious, and very promising corps of students.

The great importance of employing teachers second to none in ability, advanced study, and successful experience in imparting special lines of instruction is so apparent and essential to success as to warrant the urgent request that the trustees sustain and improve upon high standard demanded in the qualifications of the members of the faculty of the College of Agriculture by the tax-

payers of the State.

The committee recommend that this association appeal to the trustees of the University of Illinois, to appoint or retain only such instructors in the College of Agriculture, as may be able to demon-strate their ability to improve upon the best standards and to lead in the advanced lines of effort necessary to equip graduates for the successful prosecution of their life work.

The graduate from the College of Agriculture in the control of the contr

riculture in the opinion of your committee should not only be thoroughly in-structed in the technical line of studies pursued but have the practical experience incident to extended field work conducted by teachers intimately ac-quainted with the several lines of investigation.

In addition to the above requirements said graduates in the opinion of your committee should have the benefit of such an extended course of general reading as will give the broad culture and general information necessary to creditably fill any station in life.

In order to retain the best corps of teachers in the College of Agriculture, such liberal compensation should be pro-vided as will ensure continued and more earnest effort so necessary to promote rapid development in the most advanced lines of agricultural instruction.

The best teachers, the best equipment, and the best class of graduates alone will meet the requirements of the promoters of the College of Agriculture, of the University of Illinois.

#### Some New Records.

The admiration of the man for the horse is dependent in no small degree upon the horse's ability to go. The fabulous prices paid for fast racers seem in no danger of declining in view of the new records made year by year by thoroughbreds. Several records have been made this season.

The record breaker of the year has been Cresceus. This all-conquering chestnut stallion reduced the world's trotting record first to 2:04% at Cleveland, and then to 2:02½ at Columbus, Ohio. He reduced the race record to 2:03½ at Brighton Beach, and his two heats there in 2:03¼ and 2:06¼ also constitute the fastest two-heat race ever trotted. His heat in 2:05 at Detroit is the fastest second heat in a race; his third heat in 2:05 at Brighton Beach the fastest third heat against time; his 2:091/4 at Kansas City is a new trotting record for a half-mile track, and his 2:12 at Toledo the record for a half-mile track to wagon. All told Cresceus now possesses no less than 12 "best on records" trotting list.

Peter Sterling, the Kentucky Futurity winner, deserves mention, for his second heat in that event, in 2:111/2, is the fastest ever trotted by a 3-year-old gelding. In his memorable race against Lord Derby, at Hartford, Boralma trotted the second heat in 2:07, which equaled the record for 5-year-old geldings, made by Lord Derby in 1900.

One of the most remarkable performances of the year, which should, but does not, through a technicality, stand as a record, was the mile trotted at

### NOTED

Makes an Important Statement of Interest to All Women.

DEAR MRS. PINKHAM: -The honest, intelligent physician is above the 'School.' Whatever is best in each case should be used, no matter to what school a physician belongs. I, as a matter of conscience, can only pre-



DR. WANATA, of Lansing, Mich. scribe the best, and as I know and have proven that there is nothing in Materia Medica which equals Lydia E. Pink-ham's Vegetable Compound in severe cases of female disorders, I unhesitatingly prescribe it, and have never yet been sorry. I know of nothing better for ovarian troubles and for falling of the womb or ulcerations; it absolutely restores the affected parts to their normal condition quicker and better than anything else. I have known it to cure barrenness in women, who to-day are happy mothers of children, and while the medical prochildren, and while the medical profession looks down upon 'patents,' I have learned, instead, to look-up to the healing potion, by whatever name it be known. If my fellow physicians dared tell the truth, hundreds of them would voice my sentiments."— Dr. WANATA, Lansing, Mich.

\$5000 forfeit if above testimonial is not genuine. The record of Lydia E. Pinkham's Vegetable Compound cannot be equalled. Accept no substitute.

Mrs. Pinkham advises sick women free. Address Lynn, Mass.

Cleveland by John A. McKerron, to wagon, in 2:06%, which is the best on record by a stallion to a four-wheeled vehicle.

The race record for trotters to wagon, amateur driver, placed at 2:10, by John A. McKerron, in 1900, was equaled in 1901 by The Monk, driven by his owner, Fred Guken, at Empire City Park, New York, in a second heat. Mabel Onward, owned by Mr. Billings and driven by Frank Jones, trotted a second heat at Memphis in 2:10½, which is the record for mares in a race to wagon, with either amateur or professional driver.

The pacers made a great showing. Though Star Pointer's peerless 1:59\(\frac{1}{2}\) still stands unapproached, many minor marks went by the board. High water marks went by the board. High water mark for this year is the 2:003/4 of Prince Alert at Memphis. This is the world's record for pacing geldings, supplanting the 2:01½ of Robert J., made seven years ago. It is also the fastest second heat ever paced, and next to Star Pointer's 2:00½ the fastest heat ever paced in a race. Prince Alert also paced a second heat in a race over a half mile track in 2:04% at Bethlehem,

### FISTULA AND POLL EVIL

NO COST IF IT FAILS.
Write today for important circular No. 446
FLEMING BROS., Chemists,
Union Stock Yards, Chicago.

in 15 to

## Moore's Hog Remedy Inside and Outside....



Kills lice, cures mange, removes worms, aids digestion, and prevents disease AT SMALL COST. Read what A. J. Lovejoy & Son, Roscoe, III., write:

"We have used the Moore's Hog Remedy and Dipping Tank, purchased of you last spring, and are pleased to report that it does all that is claimed for it. We believe that there is more benealt derived from dipping hogs for their general health than by feeding medicine, and we heartly recommend the above to all breeders and feeders of hogs."

Moore's Hog Remedy is sold in gallon and haif gallon sealed cans only—never in bulk. Do not accept cheap substitutes, said to be just as good. If your dealer cannot supply you we will ship direct from factory and by express prepaid, on receipt of price, \$2.50 per gallon—3 to 6 gallons, by freight prepaid, \$2.25 per gallon. Book "Care of Hogs" free. Call, or address

MOORE CHEMICAL & MFG. CO., 1501-1503 Genesee Street, Kansas City, Mo.

Pa., equaling the record made by John R. Gentry in 1900 at Lima, O.

R. Gentry in 1900 at Lima, O.

Little Boy's performances were almost as sensational. At New York he paced a mile to wagon in 2:02. Mr. Jones soon after sold him to C. K. G. Billings, and at Memphis the latter drove him one mile in 2:01¾ and another in 2:01½. The previous pacing record to wagon had been 2:03¼, by Bumps, and with amateur driver 2:03¾, by Coney. driven by Edwin Gaylord.

Bumps, and with amateur driver 2:03%, by Coney, driven by Edwin Gaylord.

The record for pacing mares (2:04¼), made by Lady of the Manor, in 1899, was equaled by Mazette at Memphis, and at Cincinnati Edith W. paced three heats in 2:05¼, 2:05¼, 2:05½, the fastest trio ever put in by a mare. During the season Mazette paced in 2.07% in a race over a half-mile track at Malone, N. Y., and Edith W. in the same time in an exhibition heat at Bourbon, Ind. The previous half-mile tract rectime in an exhibition heat at Bourbon, Ind. The previous half-mile tract record for pacing mares was 2:08, Pearl C. at Muncie, Ind., in 1897. The record for pacing mares to wagon was reduced to 2:06½ at Memphis by Little Squaw. The record for pacing stallions in a race to wagon was reduced to 2:08½ by Hontas Crooke, also at Memphis.

One other pacing record was equaled, Coney winning a first heat in a race at Detroit in 2:02—the same notch where Star Pointer went in 1897.

#### Killing Fever Ticks by Machinery.

A Texas correspondent of the Breeders Gazette gives the following account of a preliminary trial of spraying to Texas fever ticks:

The Lewis spraying process for killing ticks on cattle was given a primary test on Ben Van Tuyl's ranch 10 miles south of this place last Thursday. The object of this test was to demonstrate the efficiency of the medicine and the general practicability of the method, and though the test was made with incomplete machinery and hastily provided attachments, it proved so far all that the originator, Dr. W. K. Lewis, Inspector for the Cattle Sanitary Board, has ever claimed for the method.

The test was made with a 11/2 horse power Gould's gasoline engine and a Gould's triplex pump, the pump and engine being made stationary on a common 2-horse wagon. The medicine in liquid form, which is the same as that which has been so successfully used as a tick-killer though heretofore applied as a "dope," was pumped from an ordinary water-barrel through two lines of hose, at either end of which there was attached a spraying nozzle, the average pressure being about 160 pounds. The cattle one at a time were run into a branding chute. A man on each side of this chute applied the spray to every inch of the animal's body from its ears inch of the animal's body from its ears to its tail, especially treating the brisket, belly and between the fore and hind legs. In this way it took an average of 1 minute to treat each animal after entering the chute. About 20 cattle, were treated Thursday evening, then turned into a pasture and in a few days they will be publicly examined to ascerthey will be publicly examined to ascertain if all ticks are dead.

The test has demonstrated that the principle is correct in so far as applying the treatment is concerned, and if the medicine proves effective, of which there is no doubt, having already been thoroughly tested, the machinery and apparatus will then be perfected in detail. A chute especially designed for spraying will be constructed, having nozzles attached to the sides and bottom in such way as to reach every part of the animal. It will then only be necessary to drive the animal into the chute and turn on the pressure, and it is es-timated that the spraying capacity of one machine will be not less than 1,500 cattle per day.

D. H. B. cattle per day. Mitchell County, Texas.

#### A Bit of Memory.

ker is no often so well commemorated as in the fol-lowing from the Armour-Funkhouser sale

often so well commemorated as in the following from the Armour-Funkhouser sale catalogue:

"The late Mr. Kirk B. Armour had so many friends who feel a deep sense of personal sorrow in his death that I know that I echo the thoughts of all who have ever come in contact with him, in the belief that as individuals, as Hereford breeders and as brothers in the great cattle fraternity, we have been favored as few in this world are favored, by the association and friendship of a nature so grand, of a man so lovable in all the characterictics, from the simple to the great, which combine to make a charming acquaintance, a wise counselor, an honorable competitor, a loyal friends and a just man.

"My personal association with him, from his earliest interest in the cattle breeding industry, is one of the fondest memories of my whole life, and I always think of him as the grandest man I have ever known. Every one that I met at the Kansas City cattle show seemed to be reminded doubly of him in the midst of scenes which they knew he thought of with great fondness. As the great parade was being made the last day, I thought of him, and the conviction came to me with great force that none of us had realized how

much he did to bring about possibilities for such shows, or how much he did to extend the use of the thoroughbred bull. Involuntarily I drifted back to eight years ago when all of us were wishing our herds were smaller, and wondering where we would find a market for the few bulls we produced. Then came Mr. Armour's advent as a breeder, and his world-wide statement as a packer, "I am for the betterment of beef, regardless of strain." Fortunately with his advent as a breeder came better times, but his example and his industry and advice had a very potent influence in the betterment of cattle, and our present great market for thoroughbred bulls. Few people know how many were his conversations with range men, how wide his correspondence with the cattle world generally, and always the advice, 'buy good bulls, whether you buy Shorthorns, Blacks, or Herefords.' His heart was in the work, and he put into it the same tireless energy and absorbing interest which he gave to the packing business.

"He was indeed a friend in need, but great as his business influence was, I think all of us will miss his personality more. It was his custom to come to my house twice a year, once in the spring when the fields had put on a healthy coat of green, and again in the fall when the woods were at their highest color. He always chose the brightest days, and always drove the ten miles from Lathrop to get the smell of the woods and fields, as he said. Those days seemed the brighter for his coming. I don't think I ever knew any one who had a more absorbing love for all that is best and beautiful in nature, and he always seemed like a boy let out from school in his interest in everything pertaining to the farm and cattle. We looked forward to his visits and at home we always call an ideal day an Armour-day.

"In my business associations with him, the thought uppermost in his mind seemed to be that we should make a better offering every time we made a public sale, and he always tried to stimulate a little friendly rivalry between us, as to w

#### Gossip About Stock.

Please remember that the Armour-Funk-houser sale of Hereford cattle will be held at Kansas City next Tuesday and Wednes-day, December 10th and 11th.

Snyder Brothers, of Winfield, Kans., sold to H. E. Silliman, of Cowley County, a fine boar sired by Ideal Corwin 21534 and out of Black Beauty 51104, a full brother of their prize-winning pig, Proud Corwin.

A choice load of Hereford beeves from South Dakota sold for 7 cents per pound on the Sloux City, Iowa, market last week. breaking all previous records of high priced sales at the stock yards at that place. The cattle averaged 1,683 pounds, and the average price was \$118 a head.

The Ash Grove Herd of Duroc-Jerseys and Poland-Chinas are enjoying good health, feasting on alfalfa hay, with shorts slops and a little dry wheat and corn added; so writes the proprietor Mr. D. Trott, of Abilene, Kans. Mr. Trott has some fine animals for sale at right prices, and would like to hear from those desiring to purchase

Kansas breeders in large numbers are at Chicago this week attending the International Live Stock Exposition and the annual meetings of the various national breders' association. The entire live stock staff of the Kansas Farmer is now in Chicago preparing a complete report of the great stock show and the annual meetings. Tell your neighbors to subscribe so as to get next week's paper.

Manwaring Brothers, of Lawrence, Kans., have sold during the past two weeks, of their large English Berkshire swine, thoroughbred animals to breeders in Severance. Clay Center, Ottawa, Colony, Leonardville, and Randolph, all in Kansas. Kansas farmers are active in increasing their herds of swine, and the demand for pure-bred stock is stronger than ever before. Manwaring Brothers have 112 more on hand awaiting fortunate purchasers.

That progressive and first-class breeder of Poland-Chinas, just over the line in Missouri, Mr. J. R. Young, of Richards, has 10 head of desirable Poland-Chinas for sale, and in the special want column this week he has an announcement of 10 fancy spring boars by Missouri's Black Prince and out of prize-winning dams, which he offers, to quick buyers, at one-half price, in order to make room for fall pigs which he is getting ready for public sale in February 1902.

Dr. Whittier and Colonel Moore, of the Moore Chemical and Mfg. Co., of Kansas City, are conspicuous at the International at Chicago this week and both are in the storm center of an interested crowd of stockmen, their customers and would-be's from several States and Territories. Both of these men seem to have a community interest with cattle and swine men and interest with cattle and swine men and are quite jubilant over the reception of their celebrated hog and cattle dips by stockmen.

The Shenandoah horseman, M. L. Ayres, is not very much given to tooting his own horn, but notwithstanding, it is a fact that he was never better "hooked up" for the best class of trade than right now. The writer sees his horses frequently and knows well their value. About all that Mr. Ayres does in "blowing" is to say, "Tell them to come and see the horses." Whenever they come he sells to them. The horses can not be beat; they are fine big, square, black and dark gray, young Percherons, that men like to see. Don't fall to see Ayres' big stable fulli of Percherons, imported and home bred, at Shenandoah, Iowa.

The new Blacklegine Outfit furnished with the Pasteur Blackleg Vaccine in the cord form, or "Blacklegine" as it is called, has met with great success. This new Outfit only costs 50 cents, and renders vaccination cheaper, simpler and more effective than ever. "Blacklegine" is the Vaccine in the form of a cord which is saturated

### BLACKLEGIN

#### Pasteur Blackleg Vaccine Quite Ready for Use.

This is in the form of a cord impregnated with the vaccine. Each dose is separate and applied with a special needle. The dose is hitched on to a notch in the needle and then inserted under the skin at the shoulder. The needle is provided with a detachable handle. Vaccination with "Blacklegine" is as rapid and easy as taking a stifch. There is no dissolving, or mixing, or filtering a powder; no injecting or trouble in measuring doses; no expensive syringe outfit.



BLACKLEGINE OUTFIT, SHOWING NEEDLE INSERTED IN HANDLE AND DOSE OF VACCINE ATTACHED READY FOR VACCINATING.

Prices: "Single Blacklegine" (for common stock): No. 1 (ten doses), \$1.50; No. 2 (twenty doses), \$2.50; No. 3 (fifty doses), \$6.00. "Double Blacklegine" (for choice stock) (first lymph and second lymph, applied at an interval of eight days), \$2.00 per packet of ten double doses. Blacklegine Outfit (handle and two needles), 50 cents.

#### PASTEUR VACCINE COMPANY,

Chicago, New York, Omaha, Kansas City, Ft. Worth, San Francisco.

with the Vaccine. Each dose is separate, which is a great convenience. The Outfit consists of a needle furnished with a detachable handle, and there is an extra needle in case of breakage. The dose of "Blacklegine" is inserted in a notch in a needle, and the operation of viccinating is now as simple as taking a stitch. An illustration of the Outfit will be found in our advertising columns.

Not long since W. C. Moore, owner of the Sayda Polo Herd of Jerseys, received a notable Jersey bull, Financial Count, from Wm. Rockefeller's farm on the Hudson. Mr. Rockefeller's farm on the Hudson. Mr. Rockefeller bred this bull for his own use, but later secured the sire and Mr. Moore was fortunate in getting Financial Count. In this calf that comes to Kansas are combined the blood of two of the very best strains (the Finance and Fontaine families) on the Island. All of the grandams of the calf were 5-gallon cows, including not only the dam of the calf, but the 4 cows on down the line as well. On both sides the show-yard beauty, the great capacity, and the splendid front udders and perfectly placed teats combine to give what Jersey breeders call the "ideal." In the future Mr. Moore intends to keep an American and an Island-bred bull, hoping to combine, the is holding in reserve a young son of the great Bessie Lewis (32 pounds of butter in seven days) to take the place of Stoke Pogis Marigold (whose dam and sire's dam both made 25 pounds butter in seven days) in case an accident should ever take him. While East, after looking at most of the great herds and the great sires, Mr. Moore was more thoroughly convinced than ever that he had in Stoke Pogis Marigold a sire second to none in America. He will be used as long as he is fit for service.

Turn over to page 1051 and see advertisement of Sure Hatch Incubator.

Have You Hogs?

All our subscribers who own hogs should read Blooded Stock, Oxford, Pa. It is a first-class swine paper. stamp for sample.

#### At the Kansas City Market.

There is probably no live stock coinmission firm that does business at the Kansas City Stock Yards that can give you better service in the way of selling or purchasing stock than the Union Live Stock Commission Company. This company has a corps of competent men in all of the departments of the live stock trade. It furnishes this paper and market reports free upon application.

Directors: M. S. Peters, Jerry Simpson, F. E. Rowles, W. K. Greene, Henry O'Neill, Geo. W. Williams, L. C. Boyle.

The human eye should always have the most faithful attention. If affected in any manner, do not take the serious risk of consulting any doctor, but consult some successful specialist, like our advertiser, Dr. O. W. Coffee, of Des Moines, Iowa, who is personally known by the publishers of the Kansas Farmer as one of the most successful specialists of the eye and ear. Our readers who may have any affection of the eye or ear should not hesitate to write him in all confidence. To all such he will send free an illustrated book and advise you as to what should be done in your case. Don't fail to mention Kansas Farmer when you write him.

In writing advertisers mention Kan-

The Lincoln Importing Horse Company's Office and Barn at Lincoln, Neb.



The Lincoln Importing Horse Company shows to Kansas Farmer readers this week, by way of Illustration, a fine view of the company's barns, located at Lincoln, Neb., directly opposite the Nebraska State University Farm buildings, and easily reached by street car lines centering in the city. With this splendid equipment on the most sightly tract of land adjoining the capital city of Nebraska, the fine strings of imported Percheron and Shire stallions here to be seen may boast of being the best domiciled horses in the entire country. No barns are better ventilated nor better lighted, and none are more admirably partitioned off into roomy box stalls. So much for incidentals. The horses are the main proposition, and no man need fear disappointment in these. A fine string of English Shires are perhaps first to attract attention. These fine young horses were seen at the Nebraska State fair last September where they were admired by the thousands of visitors. The Shire type is here seen in its perfection. They are truly a fine set of big, square, thoroughly acclimated horses; horses that stand around a ton, horses that feel the best and look every inch kings of the stud, horses with the underpinning and the spirit to make them the finest set of flesh actors ever seen in the West. If ambitious horsemen

will go to see these fellows they will find them full better than any description can make them. Competent judges say they are unsurpassed in all that goes to make an English Shire the general favorite that he is for beauty of outline, flash action, and, more especially, for city draft purposes, to which end a large per cent of Western draft horses are now destined. But let it be understood that the Percherons are no secondary consideration at this establishment. On October 14th, Capt. J. H. Westcott arrived with their 1901 importation. In this importation Captain Westcott succeeded in getting together a lot of the tops, horses that command attention at any and all times, and in any company, by force of their size, fine conformation, excellent thrift, and splendid Percheron character. Manager A. L. Sullivan is in his happiest mood when he is showing these fine young horses to visitors. Go and see them. It is a standing rule with the Lincoln Importing Horse Company that every statement they make about their horses must stand good to the letter, otherwise they will pay traveling expenses of all visitors. When you reach Lincoln inquire for Sulllivan's Barns—take University Place or Havelock street cars. See the advertisement, and mention Kansas Farmer when you write.

### The Veterinarian.

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

Erogtism.—I have a cow 3 years old that I put on pasture about the first of May. She has had access at all times to good water, and had no chance to be grain foundered, but about three weeks ago she began get-ting stiff and is growing worse. There are others in the country affected in the same way. What is the cause, and what is the cure? F. A. DIXON.

Coyville, Kans. Answer.—It is caused by ergot in the grass or feed which contracts the ar-Change the feed to corn, bran, and alfalfa. Keep her in a good, warm place, as there is danger of her feet freezing, and will slough off if they do. Give her 1 dram of nux vomica and 3 ounces of brandy in a teacup of warm water twice a day.

Ring Bone.—We have a jack mule about 11 years old that frequently gets lame in his left front foot. There is a growth just above the hoof that looks like ring bone. If he is idle for some time it gets worse, and after he has been doing hard pulling the lameness is hardly noticeable. The growth does not seem to get any larger.

Where can I get an impregnator?
Claffin, Kans.

T. G. Ulsh.

Answer.—Clipp off the hair from around the sore, and tie his head up so that he can not reach the part with his nose, and apply the following with the hand: One-half ounce of biniodide of mercury, and 11/2 ounces hog's lard. Mix and apply every eight days

You can get an impregnator of Truax Green & Co., Chicago, Ills.

Cow that Slobbers .- I have an old cow that slobbers while chewing cud, so much so that quite a pool is formed during the night. It is worse on green feed than on dry. Has been so for two years. Will this retard fattening? What will stop it? Brownell, Kans. L. B. METTLEN.

Answer.—It is probably caused some irregularity of the teeth. Have them examined, and if they are prop-erly fixed it will probably stop. It will interfere to a certain extent in fatten-

Out of Condition.—I have a bay mare years old that is thin in flesh and is hide bound. She has a good appetite, but does not improve in condition. I feed her corn and cane hay, and she has the run of wheat pasture in the day time, and at night she is in the stable and groomed well. Has been in this condition for over a year. I had her mouth treated last spring by a veterinary dentist, but it did no good. Have given no treatment except some tobacco for worms.

Cheney, Kans.

Answer.-Have a qualified verterinarian examine her teeth again carefully. Give her good alfalfa hay with crushed oats and bran if possible, also 3½ ounces nux vomica, 2 ounces dried sulphate of iron, 4 ounces hyposulphite of soda, 3 ounces powdered ginger. Mix and divide into 24 powders, and give 1 twice a day in dry feed.

Hemiplegia.—A few weeks ago I bought a mare 11 years old at a public auction for \$75. We drove her some after we got her home and also worked her a little to haul corn fodder. Having no further work for her until pasture. After doing so I noticed she was in heat so I got her and put her back into the barn and only took her out to water (leading her about 10 rods) for a couple of days. I noticed one morning that something was wrong. She stood in the stall with her left front foot extended and her left hind foot back. I tried to back her, but she could not without trotting, and she drug her hind toe in the dirt. She can keep the flies off with that foot as well as with the other, but when she walks she drags it along, apparently swinging it in instead of out. There was swelling around the hock joint, but there is no swelling now except just above the ankle. She has been on corn fodder, Kaffir-corn hay, oat straw, and has not been given much grain.

W. E. HODGINS. Belleville, Kans.

Answer.—Give her 2 ounces of fluid extract of nux vomica, 6 ounces of Fowler's Solution, with sufficient water

to make 1 pint. Give 1 tablespoon in food 3 times a day at first and gradually increase the dose to 11/2 tablespoons 3 times a day.

Texas Fever.-I live on land that has been pastured by Southern cattle. Can native cattle be pastured on the same land next spring and summer with safety? Will they get the Texas fever after the Southern cattle have been wintered here? D. B. HEACOCK. Hydro, Okla.

Answer.—It will depend on the lay of the land in your locality, and the se-verity of the winter there so as to kill all the ticks, which cause the fever.

Facial Paralysis.—Please tell me what to do for my horse. He got his head caught in a hay-rack last August, and hurt the under side of his jaw, on the left side next to his throat. It affected his throat and the left side of this mouth. He does not seem to have the use of his lower lip. It drops down, on the left side, and his upper lip is drawn around to the right. There are times when he can not masticate his food, and it seems to hurt him to drink. He will take a big mouthfull of feed, chew it up, and spit it out, and then try to eat it again. He seems to eat roughness all right. W. T. M. Lincoln, Kans.

Answer.—The injury has probably caused facial paralysis, about where the nerves come through the bone close to ear. Take 1 ounce Russian cantharides and 3 ounces hog's lard. Mix and boil, and apply with the hand on the cheek, next to the ear. Repeat this every ten days for three or four times.

Abortion.—One of my neighbors has a mare 7 years old that has slunk her colts about February 15 three years in succession. She was fed straw and corn fodder, and was running out. She was never sick. This year she was bred to my jack. Will you kindly let me know what is the matter with her?

A SUBSCRIBER. McPherson, Kans.

Answer.—The cause of this is probably some disease or a weakness of the womb. It might be from a number of causes, such as indigestion, a stone in the bladder, or a diseased ovary. It would be best to have her examined, and if no cause can be found, let her have a rest from breeding for a few

#### Publishers' Paragraphs.

The "Stickney Junior" power gasoline engine for farmers is a new advertisement which appears in this paper this week, by the Chas. A. Stickney Co., of St. Paul. Minn. This engine has proven a very popular success wherever it has been used. It sells for only \$110, which enables every farmer to have one. Send for free catalogue and mention Kansas Farmer.

We are in receipt of the Sure Hatch Incubator Company's Fifth Annual Catalogue. It is a book of some 166 pages, over 200 illustrations and contains a vast amount of poultry information, plans for poultry-houses, yards, etc., chapters on practical poultry raising and how to make money on a small investment etc. Look up the company's advertisement and write it, and mention that you saw its advertisement in this paper.

it, and mention that you saw its advertisement in this paper.

J. B. Armstrong & Sons, the big seed-corn growers at Shenandoah, Iowa, are again prepared to cater to the seed-corn trade in the best possible way. There was perhaps never a better turned object lesson than that held out to public view by the full yield of high grade corn from the Armstrong fields in this year of general disaster to the corn in nearly all sections of the corn belt country. From a certain field of white corn at Pleasant Valley Seed-corn Farm this year has been taken a crop of 1,000 bushels that averaged 30 bushels per acre, and that developed an unusually fine crop of well turned ears of splendid size in spite of the extremely untoward conditions of intense sun heat and absence of rainfall. Out of these extreme conditions, and by virtue of a persistent and skilled effort at cultivation through this period of intense heat, was developed as fine a crop of highly matured corn as ever grew on the farm. This field was under the care of J. B. Armstrong, Jr., who systematically set himself about the task of making good fields of corn out of what had been a magnificent prospect in the early season. It is putting it easy to say that he succeeded all along the line. This fine variety of corn now in question will hereafter be known under the significant name of White Salamander. But about these fine fields of corn later. With new equipment in the way of a big steam engine of power sufficient to move the whole plant, and with increased elevating capacity, increased area of skylights, etc., it may be said that the Armstrong Seed House is in full trim for handling the big trade that will come its way this season. They are hearing from old customers and new ones every day even now. They are ready to give out any information asked for and will book orders for whatever business may be given them now. The advertisement will begin about last of December.

#### Opportunities for Mechanics.

Digging wells is a most profitable business when the new shaft-sinking machines are used. Williams Brothers, Ithaca, N. Y., have published an illustrated catalogue of more than seventy kinds of well-digging machines, operated by either horse-power or steam. This catalogue will be sent free to any one contemplating this profitable business. These machines are so



### THE NEW WOLCOTT WIND MILI

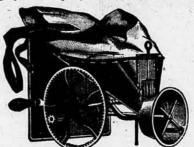
Strength, Simplicity, and Durability.

Less working parts, easiest to erect, and requires less attention than any other Wind Mill on the market. Our stock includes wood wheel wind mills, Steel or Wood Towers. Pumps, Pipe, and Fittings, and our location and facilities enable us to furnish a first class line of Pine or Cypress stock and reservoir tanks at lower prices than any other manufacturer. Write for Catalog, and introductory wholesale prices and terms.

Wolcott Wind Mill Co., Niagara & Waller Sts., Saginaw, W. S. Mich.

simple any person of ordinary mechanical skill can erect them, keep them in order, and operate them either in the softest soil or through solid rock. They are mounted for traveling from field to field, so that the owner's territory is only limited by his orders. Many industrious mechanics, tired of shopwork or long factory hours, have gone into this business with marked success. A competence is in sight for the man that takes hold of well-digging and pushes the business. Good water is in demand everywhere; the well digger will find a hearty welcome in any rural community, and get orders from the wealthier class of city residents.

For more than thirty years the Good-ell Company of Antrim, N. H., has been manufacturing its famous Cahoon Broad-cast Seeder, one of the best working, most efficient tools ever invented. Don't get the impression that this Seeder is a toy, or that it will not do the work thor-oughly and rapidly. As a matter of fact



it spreads the seed much more smoothly and evenly than is possible by the most expert sower sowing by hand, and works so easily and rapid that one man can cover from 8 to 10 acres an hour, and put in more sed than 2 teams working with the ordinary seeders. We are informed that this company has at its factory the first Cahoon Seeder ever made, and the fact that after being used all these years it is as good as new, speaks volumes for its durability and high quality.

We suggest that our readers write for descriptive circulars, or ask their dealer to show them the Cahoon.

#### Coming Events.

State Improved Stock-Breeders' Association, twelfth annual meeting, Topeka, January 6-8, 1902; H. A. Heath, secretary, Topeka.

State Poultry Association Show, Topeka, January 6-11, 1902; George H. Gillies, secretary, 603 Kansas avenue, Topeka.

Kansas State Board of Agriculture,

thirty-first annual meeting, Topeka, January 8-10, 1902; F. D. Coburn, secretary, Topeka.

#### ASPARAGUS.

Its Culture for Home Use and for Market.

BY F. M. HEXAMER.

While most works on vegetable growwhile most works on vegetable growing treat briefly on asparagus culture, this is the first book published in America which is exclusively devoted to this subject. All are agreed that there is no more delicious vegetable than properly grown and prepared asparagus. Yet it is but rarely found in our gardens, owing principally to the erroneous idea that its planting and after management are expensive and reter management are expensive and require special skill and knowledge. To disprove these fallacies, and to impart reliable and rational information on the improved and simplified modern methods of raising this peerless gem of the garden, is the principal object of this work. In successive chapters the author treats exhaustively on the saving of the seed, raising of the plants, se-lection and preparation of the soil, planting, cultivation, manuring, cutting, bunching, packing, marketing, canning, and drying, insect enemies, fungus diseases, and every requirement to successful asparagus culture, special emphasis being given to increase the importance of asparagus as a farm and money crop. As no garden is complete without an asparagus bed, so is no gardener's or farmer's library complete without this interesting and instructive book.

Handsomely illustrated, 5 by 7 inches. 170 pages, cloth. Price, postpaid, 50 cents. Orange Judd Company, 52 Lafayette Place, New York, N. Y.

In making up your Christmas presents remember that there is nothing more appropriate than a year's subscription to the Kansas Farmer. In this connection notice our "Blocks of Two" proposition.



### **DIRECTUM, 2:05**1/4 THE CHAMPION 4-YEAR-OLD TROTTER OF THE WORLD.

THE CHAMPION 4-YEAR-OLD TROTTER OF THE WORLD.

ALSO CHAMPION TROTTING STALLION OF THE

WORLD FOR SEVEN YEARS.

Directum, 2:05%, IS WORLD-FAMOUS AS A HIGH-CLASS "DO OR DIR" race horse, and ALSO AS A SIRE OF EXTREME SPEED. Several of his yearling colts brought over \$2,000 each at public auction. One 3-year-old mare, Emma Winters, 2:14%, brought \$8,000, at public auction. Directum, 2:05%, is a young horse but several of his colts have shown 2:10 trotting speed and they are all born with plenty of speed. The family of Directum, 2:05%, has been furnishing world champions for over one-third of a century. Commencing with the great Dexter, 2:17%, Jay Eye See, 2:10, Phallas, 2:13%, Nancy Hanks, 2:04, Direct, 2:05%, etc., and then Directum, 2:05%, 'the Noblest Roman of them all." He held the world's stallion trotting record from 1893 to 1900 and was finally overtaken by a horse of his own blood, but who had two years more of careful training, being 6 years old, before he reached the mark set by Directum as a 4-year-old. If Directum had been 'saved up a little' as a 4-year-old, he would have been very close to the two-minute mark as a 6-year-old. Directum was raced very hard and often as a 4-year-old and won 13 world's records at that age. The sterling qualities of the true race horse which Directum, 2:05%, always exhibited made him the idol of every impartial horseman, and take him all in all, his equal has never been seen. Directum, 2:05%, has just been purchased by International Stock Food Co., Minneapolis, Minn., U. S. A., for \$12,100.00, and will head their "International Stock Food Parm." - - - They also own the trotting Stallion Buttonwood 2:17, sired by Nutwood, Dam by Mambrino Boy, and the trotting Stallion International Fince, jered by Island Wilkes 2:13%, Dam by Plorida by Hambletonian 10.

International Stock Food Co. will send every reader of this Paper & Free, Postage Prepaid, a complete history of the life and races of the great Directum 2:05%, if you will write them and state how many horses you own or han

Fits every

hand

### The Some Circle.

THE SNOW.

Great, feathery flakes like rose leaves, Redolent with peace and love—Tossed hither and yon they come to us From the cloud-gardens up above; Nodding farewell at last they rest By the summer home of the dove.

A mantle of purity drops like a veil
Before the bare forest trees
Yet I know the kind fairies are quietly
working
Replacing the loss of the leaves.
With daintiest etching the frost-elves now
Remodel the house of the bees.

God-head of all that is good, Grant us thought snowflakes divine That will quietly drift o'er the bare forms

That will quiets,

of life

Hiding the dust and the grime—

Bringing in quiet and peace,

Blotting out sorrow and crime.

—Elizabeth Druse.

MEN WHO HAVE HELPED THE FARMER.

Robert Koch.

(Born December 11, 1843.)

When doctors disagree about the effects of their medicaments, it is not always wise for a layman to venture a decided opinion. There is only partial agreement among the wise concerning the value of some of Dr. Koch's discov eries; there is a good deal of misunderstanding concerning some of the most important of them. And yet enough is known of their importance and of the great service done by Dr. Koch to make him and his work of profound interest to all intelligent people.

Dr. Herman M. Biggs of New York, himself one of the most competent bacteriologists of this country, in a recent magazine article has said that "Robert Koch is undoubtedly the most distinguished figure which has appeared in the medical world in the last two decided with the medical world in the last two decided with the great adades. The foundations of the great advances in bacteriology which have especially marked this period," continues Dr. Biggs, "were laid by the work of Dr. Biggs, "were laid by the work of Pasteur, Lister, and others, previous to 1880; but since that date no one has contributed as much to its progress and to the general progress of scientific medicine as he. Not only have his discoveries in bacteriology been momentous, but his earlier work in improving the methods and technique of bacteriological investigation largely contributed to making possible the rapid development which has since occurred."

The particular thing which brought Dr. Koch into public notice, and which gives him title to an enduring fame as a benefactor of the human race, was his discovery in 1882 of the bacillus which causes consumption, or tuberculosis.
This discovery had the effect of teaching the world that consumption is an infectious disease—a preventable disease—a disease that is hereditary to a very limited extent only, if at all. It furnished the means of fighting the com-monest and most destructive of all dis-

We do not realize the awfulness of the ravages of consumption. It has been shown that in the State of Massachusetts, during the forty years ending in 1895, there were 4,225 deaths from smallpox, 7,952 from measles, 34,485 from scarlet fever, 40,029 from typhoid fever, and 58,490 from croup and diphtheria— 145,181 deaths from these five diseases. It is a record to make us realize in some measure the terrible loss of life caused by preventable diseases. But, in the same State during the same forty years, consumption claimed 209,115 victims. Yet we are less careful to guard against the worst of scourges than against small-

While the deaths from consumption number nearly 10,000 a year in New York City, Dr. Biggs tells us that the death rate in that city has been reduced more than 35 per cent since the announcement of Koch's discovery—a discovery that taught the medical profession the true nature of tuberculosis. We all know now that it is preventable, and that, in the earlier stages, it is curable.

But we have not learned to be careful. Eight years after announcing the discovery of the tubercle bacillus, Dr. Koch read a paper describing tuberculin-the substance now almost universally used to test cattle suspected of having tuber-culosis. The United States Department of Agriculture has made almost numberless tests of the value of tuberculin, the result being that all competent judges are agreed that it is the only certain proof of the presence of the tubercle bacillus in cattle. Its value to the stock interests of the country is almost beyond belief. It may yet appear to be of even greater value to men than to their animals.

Primarily, Dr. Koch's discoveries are

of less interest to farmers than to the people who live in cities; for consump-tion is more prevalent in the city than in the country. But the practical value of the tuberculin test appeals especially to farmers. By it they may be assured of the healthfulness of their herds. By it they may be warned of the presence of disease. If Dr. Koch's most recent announcement, that bovine tuberculosis is unlike and can not cause human tuberculosis shall prove well founded, the farmer will have another reason to count the great German investigator his friend and benefactor.

In 1884 Koch was decorated by Emper-or William and given 100,000 marks by the German government in acknowledge-ment of his discovery of the bacillus which causes Asiatic cholera. Dr. Koch has made many other investigations con-cerning diseases of bacterial origin; but enough has been said to emphasize the great value of his achievements. He has saved more lives than a Napoleon could destroy.

D. W. Working. Denver, Col.

Advantages of Consolidation.

FRANK NELSON, STATE SUPERINTENDENT OF PUBLIC INSTRUCTION.

By consolidation, all the children of the several districts, usually a whole township, can be brought together in one school building, giving the pupils the benefit of a graded school, and the inspiration that comes from numbers. A school of seven or eight pupils, having only one or two pupils in a class, is not calculated to give a boy or girl an incentive to do the best work. In a consolidated school, strong classes, thoroughly graded, can be formed, thus calling forth the best efforts of all the members. Longer recitation periods will give better opportunities for instruction.

By centralization there will be fewe. and better teachers in the schools. Better salaries will be paid, and thus those who do teach would be required to make a thorough preparation in the way of high-school, college and normal training. There is no inducement to prepare thoroughly for teaching, with only the prospect of being able to earn \$25 or \$30 per month for a few months in the year. Consolidation will make teaching a pro-fession. By centralization, all the pupils of the consolidated district will have equal advantages in the matter of high-er education. With the central graded school, the high school is almost sure to be established, and thus the boys and girls of the farm will have an opportun-ity to secure a high-school training.

Under our present system, the pupils finish the common school course at from 14 to 15 years of age. The parents, even if able to incur the expense of sending their children away to school, do not, in many cases, think it wise at this age to release the children from parental care, and from the restraining and help-ful influences of home life. It thus usually happens that for a year or two the boy or girl is either kept from school altogether, or, if continuing in school, undertakes to take up some of the higher branches in the district school. But the difficulty is that the teacher is often unable to give proper instruction in those branches, or, if able, finds the time ioo fully occupied in giving the necessary instruction in the common branches. It is an established fact that, in the ungraded country school, where the teacher has all classes from the A B C up, with 25 or 30 recitations, but little time is found for instruction in the higher branches. For these reasons, the pupils doing advanced work find themselves poorly accommodated and their interest flags. Then, by the time they have reached an age when the parents ore willing to allow them to leave the home, they have, in a large majority of cases, lost interest in the school work. But, even if at the age of 18 or 19 years they conclude to begin school work again, they find that they have, in some measure, lost the habit of study which they once had, and that they have two and in many cases three years of pre-paratory work ahead of them before

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Send the 10 oval fronts or the twelve two-cent stamps to Department ZP

The N. K. Fairbank Company, Chicago...



they can take up the college course. This means six or seven years of school life away from home before a college course can be completed. Many become discouraged and thus fail to secure a higher education.

The health of the children is better preserved by this plan. With transportation to the central school, there are no wet feet and clothing, and consequent colds and attendant ills are largely avoided. Better schoolhouses, with better systems of heating and ventilation are provided. Regularity and prompt ness of attendance are secured. The average daily attendance is increased, so that 25 to 35 per cent more schooling

secured, at a decrease in the cost. By this method we solve, in a large degree, the problem of "how to keep the boy on the farm." We bring to the home life of the farm what the boy goes to the city to get. Such a school may also become the social and intellectual center of the community. With a library, music classes, debating club, and athletic associations, our boys and girls will not be so ready to leave the home for the uncertainties of city life. Then, again, through the unity thus established there will come a larger social life to the older members of the community. Lecture courses may be carried out, circulating libraries founded, and literary clubs formed. This enrichment and preservation of our rural life is one of the most important problems of our times.

Something Good to Eat.

The following recipes are comparatively new to me and may perhaps be useful to some one else.

SHIRRED EGGS

Separate the whites and yolks of eggs. Add salt to the whites and beat stiff. Pour into a well buttered baking dish; then carefully place the unbroken yolks in the white froth and bake in quick oven, until the whites are set. They look appetizing and are palatable and easy to digest.

MOCK PINEAPPLE TAPIOCA.

Wash well % cup of pearl taploca; cover with 1 cup of lukewarm water. Let stand one hour and drain off any remaining moisture. Beat yolks of 2 eggs with 1/2 cup of granulated sugar;

chop enough tart apples to make ¾ of a cup. Mix with the eggs, sugar and tapioca; stir in 1 pint of sweet milk. Season with 1 teaspoon of orange extract or grated rind of orange. Turn into a buttered pudding dish and bake in slow oven until firm. Beat the whites of 2 eggs to a stiff froth, and add 2 tablespoons of sugar. Place this meringue on top of baked pudding with a spoon. Do not smooth it. Put back in oven till a delicate brown. Can be served hot or

APPLES.

As apples are so plentiful this season, the following facts may be of interest:

Apples should form a part of at least one meal every day, and should constitute at least 1/3 of the canned fruit put up for winter use. Chemistry tells us that the apple is composed of vegetable fiber, albumen, sugar, gum, chlorophyl, mallic acid, gallic acid, lime, and water. German analysists tell us that the apple contains a larger amount of phosphorus than any other fruit or vegetable. The phosphorous is admirably adapted to renewing the essential nerve matter (lecithine) for the brain and spinal cord. Apples, if eaten freely, will also help to keep the liver in healthy action, are equally beneficial for dyspepsia. The mallic acid of apples, either raw or cooked, will neutralize any excess of chalky matter, engendered by eating too much meat. Ripe apples are the least fermentable of all fruits, possibly excepting bananas. the support of eminent medical authorities for stating that the most healthful way of cooking apples is to pare and core them and bake in a moderate oven, until reduced to half their former bulk. Then add sugar and serve with cereal for breakfast or for dessert.

ENGLISHWOMAN.

It has been argued that modern methods of warfare would make wars of short duration. But the theory is not good in South Africa or the Philippines. Exchange.

A coated tongue, foul breath, and clogged condition in the bowels suggests the use of Prickly Ash Bitters. It is just suited for such ailments.

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### The Houng Folks.

#### JUST HUSTLE.

My boy, are you feeling discouraged and blue? Are you thinking that there are no chances for you?

Does "failure" seem stamped upon all that you do?

Do you toll in the office, the field or the shop? Don't let each small obstable tempt you to stop,
And every effort and ambition drop.
Just hustle!

The world never yet "owed a living" to Each one has to get it the best that he can, And the hustlers always lead, in the van-Just hustle!

If you can not do what you would like best to do,
Or that which seems easy and pleasant to you,
Just pitch into something, and push it right through.

Just hustle! Just hustle!

This work-a-day world is a go-ahead place, And laggard complainers are left in the chase; a forge to the front, and be first in the race. Just hustle!

-Louisa J. Strong, in Exchange.

#### BARBARA FRIETCHIE.

A New Version of a Classic War Story

On that clear morn of early fall,
When Lee marched over the mountain wall;
Over the mountain winding down,
Horse and foot into Middletown.
Forty flags with their silver stars,
Forty flags with their orimson bars,
Flapped in the morning wind; the sun
Of noon looked down and saw but one.

Almost every day, in some walk of life, heroic deeds are done which, if under auspicious circumstances or in connection with some national move-ment, would emblazon pages of the world's history; but, because of the absence of these glorifying circumstances, the deed soon ceases to be of even neigh-borhood comment. This is common; but seldom is it that a deed is done that electrifies a nation and the honor of it is conferred on other than the rightful persons. Still more uncommon is it when the rightful person will allow himself to be deprived of the honor due him without a protest. But such is the case of the heroine of Whittier's famous "Barbara Frietchie." As the poem stands, it is almost pure fiction, having only the spirit and feeling of the deed, without any of the facts. Either Whittier was misinformed, or else he attributed the heroic act to an old woman to add a pathetic setting to the dramatic incident.

In truth, the heroine of the brave deed attributed to Dame Frietchie was a girl barely 17 years of age. Her name was Nannie Crouse, daughter of George Crouse, Sr., a baker in Middleton, Md. A modest, bashful village girl, without the slightest desire for public applause, did in a supreme moment face death in defying a detachment of Stonewall Jackson's fierce Louisiana "Tigers," who were clamoring for the flag. Her neighbors and friends stood spellbond by the act of the unassuming, unpre-tentious young person. But, in the tur-moil of battle that soon swept around the village, the news of the brave defense of the country's flag traveled slowly, finally reaching Washington, with the result that the honor of it was bestowed on another for another town, and Miss Crouse, with that modesty which invariably accompanies true bravery, made no protest. A year later she became the wife of J. H. Bennett, and, while the reading world was being thrilled by the recounting of Barbara Frietchie's deed in Whittier's stirring war poem, the real heroine entered upon her duties of maried life unaffected by the fact that the laurel wreath rested on another head.

Recently Mrs. Bennett was a guest of her brother, Mr. Chas. M. Crouse, a prominent merchant of Cedarville, Ohio, and one day, in speaking of his sister, he remarked that she was the real heroine of the poem. Said Mr. Crouse:

"I do not know how they got Barbara Frietchie's name connected with the matter. She was a distant relative of our family and lived at Frederick, eight miles from Middleton, and at no time during the invasion of the Confederates was she able to leave her bed; in fact, she was on her death bed at the time. It is known that Mrs. Southworth, the novelist, related to Whittier what she knew of the incident, but he garbled the facts to suit his fancy, or else he did not get the straight of it at all. At any rate. I can vouch for the truth of the matter, though I was only a boy of 10

Crouse, "when one is half scared to

death by them.

"My father was a red-hot Union man, and, of course, us children were demonstrative patriots; especially so was my sister Nan, though a girl of few words. Her demonstrations were acts. We had a neighbor, a hotel keeper, who was as strong a sympathizer for the Southern cause as we were for the North and he openly and daily taunted my sister whenever he saw her, particularly when she would fling to the breeze from the second-story window of our house her big flag.

"About this time Lee was marching northward, fresh from the victory at Chancellorville. Rumors of all kinds were current as to our fate if the rebels invaded Maryland, and for this reason alone we did not lay violent hands on our loud-talking neighbor, not knowing how soon the table would be turned on Finally Stonewall Jackson crossed into Maryland, and it soon became apparent that our neighbor was in communication with his scouts.

"'Your rag will soon come down, now,' he would call derisively to my sister, 'Jackson is near Frederick and will soon stop that foolishness.'

"But nothing daunted sister. Her flag floated to the breeze from its accustomed place just the same.

"One day on returning from the gristmill with a boy friend we met Jackson and his staff. He asked me several questions concerning Middleton and the roads thereabouts. He was a very pleasant, kindly spoken man, and his personality affected me pleasantly. On leaving us he asked if there were any

Yankees about.

"'You'll find plenty of them if you go far enough,' I replied boldly, though with considerable trepidation for the

consequence. "He smiled and rode away. The next day a detachment of cavalry galloped into town, no doubt at the instigation of our neighbor to secure the offend-ing flag, which was floating as big as life, in the wind—but here," said Mr. Crouse, "I had better let some one else say the flattering things about my sis-A citizen of the town stood across the street during the raid and took in the scene, which he graphically de-scibed in an article read at an anniversary of the battle of South Mountain.'

The following is an extract: "This lonely Union flag hung from its staff over the residence of Mr. George Crouse, Sr., whose house and confectionery were located on the main street, near the center of Middletown. On the day in question a detachment of rebels came dashing into the town, and, galloping past Mr. Crouse's, the old flag met their sight. "'Halt!' the dust-browned ranks stood

fast, and, quicker than I relate the incident, a dozen men had dismounted and were rushing upon the porch, when the bravest and most thrillingly dramatic scene I ever witnessed occurred.
A beautiful young lady superbly formed, stepped from the doorway of her fath er's house and demanded of the rebels

what they wanted there.
"'That damned Yankee rag,' said a big ruffian trooper, pointing derisively to 'Old Glory,' and moving toward the door as though he would enter the house and tear it from its staff. Anticipating the rebel's intention and taunting him with disloyalty to his country, Miss Crouse sprang past the man, ran up the stairway, hauled down the flag and draping it about her form, returned to the porch, looking the very imper-sonation of the Goddess of Liberty. Again the brutal rebel demanded 'the damned Yankee rag.'

"Again was his insolent demand re-fused with proud and loyal disdain. Approaching our heroine with drawn revolver, the barrel was pointed at her head, his companions all the while clamoring for the 'Yankee rag threatening if their demand was again refused, to

kill its fair defender. "'You may shoot me, but never will I willingly give up my country's flag into the hands of traitors,' said Miss Crouse without a tremor of fear, but with righteous wrath voiced in her very pose and in every syllable of her brave re-

ply."
"Right here," said Mr. Crouse, "the accuracy of the eye-witness ends. He stated that the flag was torn from her. I stood just behind her and saw and heard all. The captain seemed a wild-mannered fellow, with not much con-trol over some of his Louisiana Tigers, for he allowed one of his troopers to flourish a revolver near my sister's head. One of the soldiers must have been one of the true gentlemen of the South, for while the big ruffian was threatening to kill her, he said reassuringly: dare not hurt you or touch the flag while years. One is not likely to forget such you have it around you, but please save scenes as those were," laughed Mr. trouble and give it to the captain."



"No doubt but for the presence of wiser heads some of the soldiers would have used force, for the man with the revolver reached over the captain's shoulder, pointing his weapon at sister with hate and viciousness in his expression. I cowered back against the wall in fright, feeling sure my sister would be killed.

"Finally, seeing odds were against her and to hold out longer was vain, she handed the beloved flag to the captain, who left the house, tied the flag about

his horse's neck and departed.
"Back on a hill the captain of a body
of Union horse saw these demonstrations, quietly made a detour and intercepted the triumphant rebels, capturing a portion of them, and, though the

captain escaped, secured my sister's flag and returned it to her.

"A few weeks after this occurrence," concluded Mr. Crouse, "Miss Effic Titlow, my sister's chum, had occasion to rigit in Weekington, and visit in Washington, and a correspondent of Forney's (Philadelphia) Press interviewed her. She gave a graphic ac-count of the event, but, knowing my sister's ideas against notoriety, refused to give the name of the heroine. He pleaded with her, but in vain. "Then," said he, "if you'll not give the name of our heroine, I'll give her yours,' and so he did. This Press account created a stir in official circles at Washington, and Miss Titlow, the pseudonymous heroine, was offered a position in the Treasury Department. She acepted on advice of my sister. She retained the position a number of years, when she married and moved with her husband out West. Later she returned to Washington a widow, applied for her old position and got it, and there she is to-day, holding a very lucrative position on the strength of the supposition that she is the

heroine of Whittier's poem.
"Mrs. Bennett's children have often
remonstrated with their mother for allowing the deception, but she says she does not need a government position, and her old friend does.—Will M. Hundley, in Cincinnati Gazette.

#### Miss Goodwin's Success.

At the recent sale of fine stock in Kansas City, Colonel Woods, the auctioneer, paid the following compliment to Miss Lou Goodwin, of Kansas, who has achieved much success in breeding Hereford cattle:

"All lessons learned from actual life are valuable. Whenever I see a practical illustration on the farm I like to use it as an argument of the possibilities of cattle raising. Recently at the Hereford sale, breeders gave Miss Lou Goodwin a fair price for her offerings. want to tell you, men and women what Miss Goodwin has done. Seven or eight years ago she had the misfortune to lose her father, a Hereford breeder. Remember it makes no difference what the breed, you can do well with any. After her father's death his herd was sold at administrator's sale. One man here in Kansas bought the lot. Miss Goodwin's heart was almost broken to see the cattle her father had loved leave the place. In desperation she went to purchaser and urged him to let her retain a sufficient number to go into breeding on her own account. He generously sold her \$1,500 worth on time, and that man was C. A. Stannard.

Promptly she began operations, and while I can not follow the details I can say that she has since made over \$6,000 and bought half a section of land and is breeding Herefords profitably here to-day. She did this with brain; girls are now endowed with much muscle. She directed the muscle of some one else. Yes, you may cheer. She deserves it. If I were not a married man I would go to Kansas and get me a wife. Imagine some young man going to Blue Rapids and laying his heart at the feet of Miss Goodwin. Her first question would be as to his occupation, and learning he was raising stock, ask him if he had sold his calves. An affirmative reply would prompt the question as to price. Suppose he said \$26.50, she would state that she got \$100 for hers. and if he played checkers it was time

for him to move.
"What women have done women can do. What this particular woman has done, however, it would take a pretty smart man to duplicate."

#### Why Astronomy Destroys Ambition.

Lord Rosebery recently deprecated the study of astromomy "because it destroys ambition." His point is well illustrated in the current doings of the queer star that blazed out for us in the constellation Perseus in February, 1900. The favorite theory of the origin of this star is that two great dead or dying suns rushed together in the vast and populous, yet empty, infinities of space and were set on fire by the stupendous impact. The telescope now reveals strange perturbations there—enormous masses of molten matter moving about at a rate that can hardly be less than 50,000 miles a second.

No figures which the human mind can grasp would express the size of the bodies involved or the extent of this conflagration. And, most crushing of all the imagination of man, this star is so far removed from our tiny niche in the universe that, although light travels more than 180,000 miles a second, the events of this drama which we are now observing occurred between 2,000 and

3,000 years ago.

As Lord Rosebery suggested, the study of such facts as these does not tend to give a man the sense of his own importance necessary to his acting upon the theory that his puny possibilities are worth developing.

#### Honey for Kansas, Missouri, and Oklahoma.

Two cans, 120 pounds net, amber \$7.80, whitest (more from alfalfa bloom) \$9.00, comb honey in one pound sections, 10 to 13 cents. Also small cans all sizes See price list Nothing cans, all sizes. See price list. Nothing but genuine bees' honey. Reference, KANSAS FARMER Co. Address, Arkan-sas Valley Aplaries, Oliver Foster, Proprietor, Las Animas, Col.

### SEVEN GREAT SCHOOLS.

Chillicothe Normal School Chillicothe Commercial College Chillicothe Shorthand College Chillicothe Telegraphy College Chillicothe Pen-Art College Chillicothe School of Oratory Chillicothe Musical Conservatory

Last year's enrollment 729. \$130 pays for 48 week's board, tuition, room rent, and use of text-books.

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

Electros must have metal base.

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

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

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

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

Address all orders:

KANSAS FARMER CO.,

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

#### BLOCKS OF TWO.

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

"The Capricornian," published at Rockhampton, Queensland, Australia, in its issue of October 26, and the "Agricultural Journal," of Cape Town, South Africa, of October 24, published by the Department of Agriculture, just at hand, each print entire the recent bulletin entitled "Kansas and Her Al-falfa," issued by Secretary Coburn. In the South African journal the word alfalfa is in each instance changed to "lucerne."

A corespondent inquires where he can get Kaffir-corn seed. No doubt there are many more who will want to plant this drouth resister if they can obtain the seed. There are many subscribers for the Kansas Farmer who have nice seed which they would like to exchange for other subscriber's money. The want and for sale column of the Kansas Farmer is the best possible medium of communication between farmers who want to sell and those who want to buy. A small sum invested in this column often brings large results. Try it.

The firm of Lewy & Goldschmidt, of Antwerp, Belgium, write to Secretary Coburn, of the State Board of Agriculture, that their attention has been especially called to Kansas, by a review in the "Cincinnati Price Current," of his little primer upon "Kansas and the Semi-Arid Section." They say: "You will no doubt be aware that large, quantities of grain and also provisions are imported from the State of Kansas to our port, and copy of your booklet would interest us very much, as we handle good quantities of these products, acting as agents for American shippers.'

#### IT PAYS TO GRIND HIGH PRICED FEED.

To grind or not to grind feed is a problem that has been propounded periodically for lo these many years. Whether it will or will not pay depends largely on the price of feed and on the grain to be fed. Properly ground and judiciously fed grain produces larger gains in proportion to the amount used if ground. When corn is worth, say 20 cents a bushel, it is probably cheaper to feed more of it than to have the expense of grinding. But when corn is

worth 50 to 70 cents a bushel the increased value on account of grinding well repays the cost.

Much wheat is being fed in Kansas and Oklahoma this season. Animals generally do not masticate wheat well enough to secure its full digestion. Kaffir-corn is also swallowed without proper mastication.

While prices of feed remain high and while the small grains are extensively used a good feed mill of one of the modern makes will doubtless prove a good investment.

#### THE KANSAS CITY STOCK YARDS CASE.

In 1897 the Kansas legislature enacted a law intended to reduce and regulate charges at the Kansas City Stock Yards.

On the day set for the law to take effect the company obeyed the law, but the next day two stockholders in the company-Charles V. Cotting and F. L. Higginson, both of New England—applied to Judge C. G. Foster, in the United States Circuit Court of Kansas, for an injunction. They asked that the company's officers in the West be restricted from injuring the value of company property by obeying the law. They also asked that L. C. Boyle, then attorney general of Kansas, be restrained from taking steps to enforce the act. It was Boyle's duty under the law to prosecute the Western officers of the company and send them to jail if they failed to obey the law.

Judge Foster issued a temporary re straining order and appointed George W. Clarke to be a special master to take testimony. The appeal to the courts by the Eastern stockholders was based on the contention that the would confiscate their property if the State was allowed to enforce it.

After a long fight, in which it was shown that all the wealth accumulated by the stock yards company had been profits on an original investement of \$96,000, Clarke reported to Judge Foster that the rates fixed by the legislature were reasonable. Judge Foster fol-lowed this report with a decision that the State could properly enforce the rates. The United States Circuit Court was next appealed to and Judge Amos M. Thayer decided that Judge Foster was right. The company took the case to the Supreme Court, then re-organized as a Missouri corporation, and moved its cattle yards, except for quarantine, into Missouri. It handles hogs in Kansas yet.

THE SUPREME COURT'S DECISION.

The decision of the Supreme Court was given to the public November 25, It was written by Justice Brewer. The first point decided is that the legislature has a right to make reasonable regulations for services rendered by the Stock Yards Company. As to the extent to which the legislature may restrict charges the court says:

"As to parties engaged in performing a public service while the power to reg-ulate has been sustained negatively, the court has held that the legislature may not prescribe rates which, if enforced, would amount to a confiscation of property. But it has not held affirmatively that the legislature may enforce rates which stop only this side of confiscation and leave the property in the hands and under the care of the owners without any remuneration for its use. It has declared that the present value of the property is the basis by which the test of reasonableness is to be determined, althought the actual cost is to be considered, and that the value of the services rendered to each individual is also to be considered. It has also ruled that the determination of the legislature is to be presumed to be just and must be upheld unless it clearly appears to result in enforcing unreasonable and unjust rates.

The decision further says that the State's regulation of charges is not to be measured by the aggregate of profits, determined by the volume of business, but by the question whether any particular charge to an individual is, considering the service rendered, un-

reasonable or exacting. The State took much care to show how great are the stock yards com-pany's profits. The purpose was doubt-less to make it apparent that the proposed reductions would still leave reasonable returns on the capital invested. The court states that in handling the case the State's attorneys made the amount of the aggregate earnings the pivotal fact. This is a broad intimation that the handling of the State's side of the case was defective.

REASONABLENESS OF THE CHARGES.

As to the reasonableness of the charges the decision says: was found, however, that the charges made by the defendant were

no greater (and in many instances less) than those of any other stock yards in the country. Nothing is stat-ed to outweigh the significance of that finding. While custom is not control-ling, for there may be a custom on the part of all stock yards companies to make excessive charges, yet in the absence of testimony to the contrary a customary charge should be regarded as reasonable and rightful."

#### PENALTIES.

As the penalties for violation of the law the court finds the wording uncertain with chances that the law might be so construed as to impose penalties aggregating \$15,000,000 for a single day's violations. On this point the court continues:

"It is doubtless true that the State may impose penalties such as will tend to compel obedience to its mandates by all individuals or corporations, and if extreme and cumulative penalties are imposed only after there has been a final determination of the validity of the statute, the question would be very different from that here presented. But when the legislature, in an effort to prevent any inquiry of the validity of a particular statute, so burdens any challenge thereof in the courts that the party affected is necessarily con-strained to submit rather than take the chances of the penalties imposed, then it becomes a serious question whether the party is not deprived of the equal protection of the laws."

Another point against the law is found by the court to be its discrimination against the larger stock yards in making its regulations apply only to those stock yards within the State, "which, for the preceding twelve months, shall have had an average daily recept of not less than 100 head of cattle, or 300 head of hogs, or 300 head of sheep."

After quoting with approval from a Kansas decision involving similar ques-

tions, the court says:

"If once the door is opened to the affirmance of the proposition that a State may regulate one who does much business, while not regulating another who does the same but less business then all significance in the guarantee of the equal protection of the law is lost: The statute is not simply legislation which in its indirect results affect different individuals or corporations differently, nor with those in which a classification is based upon inherent differences in the character of the business, but in a positive and direct discrimination between persons engaged in the same class of business and based simply upon the quantity of business which each may do. If such legislation does not deny the equal protection of the laws, we are unable to perceive what legislation would. We think, therefore, that the principle of the de-cision of the Supreme Court of Kansas in State vs. Haun supra, is not only sound, but is controlling in this case, and that the statute must be held un-constitutional, as in conflict with the equal protection clause of the Fourteenth Amendment."

The decision was summed up by Judge Brewer as follows:

"The decree of the Circuit Court in this case is reversed with costs, and it is ordered that this cause be and the same is hereby remanded to the said Circuit Court with directions to enter a decree in favor of the plaintiffs and against the Kansas City Stock Yards Company and its officers in accord with the prayer of the bills, and also a de-cree dismissing the suit as to the attorney general of Kansas, without pre-judice, to any further suit or action."

The entire court concurred in the decree, but not in all of Judge Brewer's reasoning. Justices Harlan, Gray, Brown, Shiras, White, and McKenna Justices Harlan, Gray, united in the following statement:

A DISSENTING STATEMENT. "We assent to the judgment of the reversal so far as the merits of this case are concerned, upon the ground that the statute of Kansas in question is in violation of the Fourteenth Amendment to the Constitution of the United States, in that it applies only to the Kansas City Stock Yards Company and not to other companies or corporations engaged in like business in Kansas, and thereby denies to that company the Upon the equal protection of the laws. question whether the statute is unconstitutional upon the further ground that by the necessary operation it will deprive that company of its property without due process of law we deem it unnecessary to express an opinion.'

Nearly every man can leave something behind him in the form of good works. If he owns land he may plant trees, for instance.

#### THE ANTI-HORSE THIEF ASSOCIA-TION.

During the last few years there has grown up in Kansas and the Indian Territory a great fraternity of determined men who are known as the State Order of the Anti-Horse Thief Association. This association now numbers over 300 subordinate orders and is allied in its objects to similar orders in other States and Territories. Its objects are set forth in the following preamble to its constitution: "In order to aid in the upholding of civil laws; to insure the safety of our people and the security of their property against loss by thieves, robbers, murderers, vagrants, tramps, incendiaries, and ALL violators of law; and to secure to us and our families the enjoyment of life, and the pursuit of happiness in the possession of our hon-est rewards of labor with equal and just rights to all we do proclaim the following constitution," etc. That these objects are lived up to and

that the association is doing a grand work is attested by the history of Southern Kansas and the Indian Ter-ritory during the last few years. The Indian Territory was once among the most notoriously lawless sections of our country. Now lawlessness is compara-tively uncommon. Where it was once true that if the criminal could only reach the Indian country his safety was assured, it is now true that his presence there affords him no safety. sociation has done and is doing a great work, but there is still more to be done. By reason of circumstances its greatest strength lies in the southern part of this State and the Indian Territory, but it is growing rapidly, and will soon be known by its good works in other parts of the State where its powerful influence is needed. And where, in this or any other State, is this influence not needed? Wherever crime exists; wherever criminals go; wherever men must fight and women must weep as the result of the presence and activity of other men and women who live to prey upon society, there is where this great fraternity has its proper field, and there it will be found at work as soon as its objects and methods become known.

Kansas never does anything by halves. Here is a fraternity already great, which not only captures and punishes criminals; protects its members and the community against their raids; cares for its sick or injured members and their families; provides for the widows and orphans of deceased members: buries the dead and is a true fraternity in every sense, but which by its growth and work, spreads a healthy public sentiment among the people and aids, more effectively, than any hired officers can do, in securing the peace, safety, and happiness of the people. And all these benefits and this protection is easily reached. Any 12 or more men of good standing in any community who are of legal age may apply for a charter to organize a subordinate order. Any man or woman interested may secure information in regard to the association by addressing State Secretary John W. Wall, Rural Route No. 2, Parsons, Kans. The officers of the State association for the ensuing year are, President, C. G. Horn, ensuing year are, President, C. G. Horn, Welch, Ind. Ter.; vise president, N. J. Randall, Mineral, Kans.; secretary and treasurer. John W. Wall, Parsons, Kans.; Executive Committee, J. S. Wolf, Humboldt, Kans.; M. J. Warner, Welch, I. T.; and G. J. McCarty, Valeda, Kans. These gentlemen are in these important offices because of their efficiency and activity, and because of their interest in the order, and will gladly answer inquiries in regard to the association. It is to be hoped that its growth in the future will be as rapid as its efficiency has been great in the past.

#### THE SECOND INTERNATIONAL.

The second annual International Stock Exposition is being Live held in Chicago this week. one held a year ago was considered the greatest event of the kind ever held, but Kansas Farmer representatives who are present say that the present exhibition is greater than that of last year. Nearly 10,000 animals of the various breeds of cattle, swine, sheep, and horses are on exhibition, and the attendance is a manifest improvement over last year.

The agricultural colleges and experiment stations all over the country are well represented. The good work that they are doing is becoming more manifest every year, and, with proper en-couragement, they are capable of doing the farming world a vast amount of good. After looking at some of the ex-hibits from these colleges, farmers will naturally be curious to know how the animals were fed. If there is any one better way to feed stock than another farmers should know it.

The railroads have made a cheaper to the International Live Stock Exhibition than they did to the World's Fair or to the Pan-American Exposition. So far as the feeder and breeder of live stock is concerned, the International is more important than either of the other expositions.

The KANSAS FARMER next week will give a complete report of the great live stock events now in progress at Chicago, and it will be a copy that every one interested in stock raising will wish to preserve.

#### PUBLIC OFFICE NOT A PRIVATE SNAP.

There used to be a maxim which ran, "Public office is a private snap." snap was considered as not to be enjoyed alone by the holder of the office, but to be shared among "friends" who had helped the holder to his position. A rude shock was given to the venal politician last week when President Roosevelt made public the following:

"Governor Jenkins, of Oklahoma, is hereby removed because of his improper connection with a contract between the Territory and the Oklahoma Sani-tarium Company. The decision is based purely upon his own written statements, and his oral explanations of them at the final hearing.

"One of the duties of the territorial governor is to enter into a contract with some persons or corporation for the keeping of the insane of the Territory. Governor Jenkins made such a contract with the Oklahoma Sanitarium Company, a corporation, the promoters of which reserved \$10,000 of its stock for the governor, and subject to his In the governor's explanation of the affair, he says he told the pro-moters at the time they desired him to sanction the contract 'that it was an important contract; that I had some friends whom I would like to have in-terested in the company to whom I owed some political obligations, which I would not be able to pay by an appointment or anything of that kind. The stock was delivered to a banker, subject to the governor's order, and was turned over to these friends whose political services the governor thus sought to reward.

The extent of the favor by the governor to his friends is suggested by the fact that the only known sale of the stock since the contract was given out was at double the price paid for it. As performance of the contract was to be the sole business of the corporation, it is obvious either that the Territory was obliged to pay far more than the service was worth, or that its helpless wards were to have the enormous profits contemplated taken out of their

"The governor's confessed relations to the matter disclose such an entire lack of appreciation of the high fiduciary nature of the duties of his office as to unfit him for their further discharge. A sound rule of public policy and morals forbids a public servant from seeking or accepting any personal benefit in a transaction wherein he has a public duty to perform.

"A chancellor would not for one

moment retain a trustee who, in dealing for the trust, reserved an advantage to himself. The thought is not to be tolerated that the President can be less vigilant and exacting in the pub-lic's interest. Theodore Roosevelt."

The astonishment of the professional politician at this and a long list of kindred acts by the President is not more profound among professional politicians than among people who have had hope deferred as to the purification of politics. It may now be considered that during the administration of Theodore Roosevelt the political aspirant who has an unsavory re-

cord had better save himself the trouble of presenting his credentials and the embarassment of humiliation. It was a rather bitter drink for politicians of the baser sort when the venal gangs which have kept up a party organization in the South in order to hold the offices dispensed from Washington were turned down, and their political adversaries were put into places of responsibility and profit. But these were a long way off, and the act was excused as a supposed effort to at-tract to the President's party the stongest and most respectable elements of the opposition in States where that opposition is strong. When, however, the President turned down a prominent member of his party in Kansas or Oklahoma for the mere fact that he used his position for the advantage of some "friends," to whom he was under political obligations, which he had no other

means of discharging, merely to enable these friends to share in a very fat contract in which the Territory was paymaster—when the President turns down "one of the boys" like that—well, "what are you going to do about it?"

Those who have observed even casually the course pursued by Theodore Roosevelt feel no misgivings as to his ability to stand all of the storm that Senators can raise. He is serving the present term of office now, and threats as to the future are unavailing. The people admire boldness, and, to use the small boy's expression, "Roosevelt always has his nerve with him."

Is it too much to hope that practical

politics will be lifted soon into a respectability that will invite the services of the best elements of society?

### FARMERS' WEEK AT TOPEKA.

Secretary Coburn, of the State Board of Agriculture, has been advised that an open rate of one and one-third fare for the round trip from all points in Kansas, and from Kansas City and St. Joseph, Mo., to Topeka, has been granted over all the lines of railroads in the State, for the various meetings which are scheduled to occur in Topeka the second week in January next, the more prominent being the thirty-first annual meeting of the State Board of Agriculture, January 8 to 10 inclusive, in Representative Hall; twelfth annual meeting of the Kansas Improved Stock Breeders' Association, January 6 to 8, in Representative Hall, and the State Poultry Show, which begins on the 6th and continues throughout the entire week, will be held in the Auditorium. These are popular, free-for-all meetings, and no one at all interested in the agricultural and live stock industries can afford to miss these great annual round-As usual, programs of excellent and timely papers and addresses are already prepared or nearing completion, and the best known talent at home and abroad will be in attendance in response to special invitations, to discourse upon topics suitable to the occasion, and of

which they are recognized authorities.

This will be distinctly "farmers' week," and from present indications week," and from present indications many will journey to Topeka in order to join in the six days of intellectual feasting and festivity. Whosoever will may come, and that, too, at a cost of transportation lower than is usually available a complimentary farmers' rate, so able—a complimentary farmers' rate, so to speak. Tickets from all points in Kansas will be on sale January 4 to 11 inclusive, limited for return until the

#### ONTARIO'S CO-OPERATIVE EXPER-IMENTS.

In Ontario the agricultural experiment station started a system of coöperative experimental work in 1886, with 12 experimenters. This year there were upwards of 3,000 Ontario farmers conducting the coöperative tests upon their own farms. The average number of experimenters each year for the four years ending with 1889 was 73; with 1893, 557; with 1897, 2,059; and with 1901, 3,157. The experiments were located in both New Ontario and Old Ontario, and on small farms as well as on large farms and the experimenters themselves comprised both men and women, highly educated and self-educated, old and young, married and single, rich and poor, who did the work for their own good and for the good of others

Both the financial and the educational influences of this work throughout On-tario are great. The benefits are not confined to the experimenters themcommed to the experimenters themselves, but are shared by thousands of others who examine the growing crops, who attend the annual meetings, who read the annual reports, or who become familiar with the results through the columns of the public press, in the meetings of the farmers' institutes, and in various other ways.

Following is a schedule of the cooperative experiments of 1901, giving the number of those engaged in each experiment:

#### AGRICULTURE. Grain Crops.

Root Crops.

Fall Turnips.... Testing Parsnips and two varieties of Vetches. 14
Testing Dwarf Essex Rape and two varieties of Kale. 9
Testing three varieties of Clover. 17
Testing Sainfoin, Lucerne, and Burnet. 16
Testing five varieties of Grasses. 14 Culinary Crops. Testing three varieties of Field Beans... 65 Testing three varieties of Sweet Corn....115 Fertilizer Experiments. Miscellaneous Experiments. wing Potatoes on the level and in hills....Planting Potatoes the same day and five 

Testing Kohl Rabi and two varieties of Fall Turnips....

HORTICULTURE. Testing four varieties of Strawberries...116 Testing four varieties of Raspberries....35 Testing four varieties of Black Raspber-POULTRY.

Testing different methods of preserving 

Next week there is to be a meeting of those engaged in this union work. The meeting will be held at the Ontario Agricultural College, Guelph, Canada.

#### Industrial Commission Report.

The industrial commission has made public its review of evidence taken before the commission on the subjects of agriculture and agricultural labor. Among other subjects discussed is that of agricultural depression, of which the commission speaks as follows:

The cause most often assigned for the depression of agriculture in the Eastern States is the increased production due to the opening of Western lands in advance of the natural demands, especially through the agency of liberal land laws and grants of land in aid of railroad construction.

The competition of the West has been rendered especially severe by the policy of the railroads in making freight rates relatively low for long distances.

Thus truck farming has largely superseded cereal growing along the Atlantic coast, but farmers in the north Atlantic States now complain of the severe competition of the States farther south in this industry, and much the same may be said of fruit growing. Even so perishable a commodity as

milk is transported much longer tances than formerly since the introduction of refrigerator cars.

Another cause which several witnesses assign for the unsatisfactory condition of agriculture in some parts of the country is the conservatism of the farmers, their lack of quick adjustment to changed conditions, and lack of effective business planning and manage-

Farmers, as a class, have not kept up with the times, but have raised the same crops year after year, without regard to supply and demand.

This undue conservatism and lack of managing ability among farmers is especially emphasized with reference to the southern States, and is given as an explanation of the too exclusive attention to cotton production prevailing

consequent righ rates of interest.

It seems to be possible, however, to borrow money in the South at somewhat lower rates of interest than formerly. The decline in the price of cotton is of course an important element in the depression of agriculture in the South.

Against the charge that farmers are unduly conservative is put the counter charge that they turn from one crop to another without sufficient regard to the suitability of the climate and soil, or to the conditions of the market.

### Rural Free Delivery of Mail Likely to Be Made Universal.

In his annual report referring to the extension of rural free delivery, which he heartily approves, the Postmaster General sava.

other factors be reckoned at 10 cents a day for each family, it is clearly a moderate estimate. That made an aggregate of \$12.50 a day. The government can deliver the mail at the doors of all for \$2. Why shouldn't it do so and save them the larger burden? Extend the calculation to the whole country. There are about 4,000,000 families dependent on the rural service. The aggregate cost to them of going to the postoffice reaches an enormous sum. The government can carry the postoffice to them for a fraction of the amount. Under such circumstances the claim to the service becomes irresistible. It is the business of the government to deliver the mails as far as practicable. The apprehended obstacles to rural delivery have largely vanished with actual experience, and the manifest advantages, now clearly shown, urge the full development of the policy.
"Even the fear that the ultimate cost

of this service would so far exceed the return as to make it a heavy national burden is sensibly dissipated by the results of the experimental trial. It is demonstrated that the establishment of rural delivery is invariably followed by a large increase of postal receipts; on the other hand, it permits a material retrenchment through the discontinuance of star routes and small postoffices; and the combined effect of the augmented revenue and the considerable saving brings the net cost of the delivery system to proportions which may be regarded without apprehension. The saving during the last fiscal year on star routes thus superseded was \$173,404.41, and on postoffices discontinued it was \$120,221.43. The two together amount to one-sixth of the entire appropriation for this service."

#### PRIZE GARDENING.

to Derive Profit, Pleasure, and Health from the Garden. How

COMPILED BY G. BURNAP FIREF

Five thousand gardeners all over America kept a daily record of the methods and results for a whole season, and reported thereon fully in competition for many and large prizes. They represented all grades, from the small amateur to the professional market gardener. This unique book summarizes the most useful of all this experience. Each man or woman has definite ideas, and is testing them by successful garden practice. The very difference in the conditions and methods constitutes the particular value of the chapters, since readers everywhere will find that some at least of the descriptions are particularly adapted to their needs. Most important of all, every line is from actual experience. The result is a mine and treasurehouse of garden practice. Careful editing has put this mass of experience into available, useful, and fascinating form. The chapters tell the story of the contest, describe the grand prize gardener's methods, gardening for profit, good farm gardens, the home acre, town and city gardens, experimental gardening, methods under glass, success with specialties, prize flowers and fruits, lessons from winners, success in town or city, fertilized gardens, gardening by women, boys and girls, irrigation, sec-

Illustrated with many charts, sketches, etc., from original photos, 323 pages, 5x7 inches, bound in cloth. Price, \$1, postpaid. Orange Judd Company, 52 Lafayette Place, New York, N. Y.

I am in favor of an amendment to the interstate commerce law in the interest of the flour-milling industry and Another cause assigned for agricultural depression in the South is the scarcity of money, the difficulty of borrowing on real estate securities and the gressman's quota of garden seeds is large enough. I am of the opinion that the farmers desire better recognition, and ought to have something more tangible. Among the bills I pro-pose to introduce will be an amendment to the interstate commerce act permitting railroads to make half-fare rates to old soldiers.—Congressman J. D. Bowersock.

The Old Men and Women Do Bless Him.

Thousands of people come or send every year to Dr. Bye for his Balmy Oil to cure them of cancer or other malignant diseases. Out of this number a great many very old people whose ages range from seventy to one hundred years on account of distance and in-firmities of age, they send for home treatment. A free book is sent telling Testing three varieties of Mangolds..... 64
Testing two varieties of Sugar Beets for stock feeding...... 65
Testing three varieties of Swedish Turnips..... 65
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Testing three varie what they say of the treatment. Address Dr. W. O. Bye, Drawer 1111, Kansas City. Mo. (If not afflicted, cut this

### Borticulture.

Cranberry Culture.

Possibly some of the fruit growers of Kansas who possess irrigation facilities could find profit in producing cranber-ries. The following account of the pro-duction of this popular fruit, from the Newark, N. J., News will prove interest-

Three hundred thousand bushels is New Jersey's contribution to the cran-berry crop of the United States for 1901. There are 3 bushels to a barrel, and the grower will give thanks for his harvest this year at the rate of \$5 a barrel.

Although the crop is a large one, aggregating 1,000,000 bushels the country over, the housewife has paid, and will pay, from 5 to 10 cents a quart; more often the latter figure, according to the price the market man or grocer considers to fit the occasion. The total value of this year's cranberry crop from the producer's standpoint is \$1,700,000. It will cost the consumer \$3,000,000.

The new crop of berries began to drift into the market early in September, the first installment being, as usual, from the Cape Cod country. In October, Jersey berries were marketed, closely followed by the Long Island product. From the first it was evident that the crop was going to be far greater than that of 1900, when it was 569,000 bushels, and so it proved. The cranberry is a Thanksgiving joy for rich and poor, and it was eaten this year as never be-

Theoretically the millions of people who like cranberries know where they come from, of the growing and all. In reality not five persons in a hundred know how the berries grow, and the ma-jority of those who do know live in the vicinity of the bogs.

REQUIRES LARGE CAPITAL.

Cranberry growing is an enterprise that requires considerable capital, and the cranberry vine, from which the greater part of the crop comes, is carefully cultivated. It costs from \$300 to \$500 an acre to prepare a cranberry bog or marsh and carry it to a point of pofitable productiveness. Sometimes a salt marsh is selected, but often abandoned millponds are secured, because the bot-toms of these prove to be by far the best of all bogs.

From 5 to 10 inches of clean, sharp

sand is spread over the peaty earth in either marsh or bog, and the uprights, or cranberry shoots, are either placed therein in rows 14 inches apart, after very nearly the same plan as used in the case of cuttings from house plants, or else cut in short pieces and scattered over the sand. The young shoots come up through the sand as thick as wheat, making an excellent growth, and the whole surface is soon matted with them. This mode requires more vines than the others, but yields a crop sooner than by planting in any other way. The hardiness of the cranberry vine or bush is shown by the radical success of this primitive mode of planting, for the uprights take root almost immediately. Soon after planting the uprights send out "runners," which in turn take root. In three years' time the vines come into bearing, and in five years, if it has re-ceived proper attention, gives a liberal

Cranberry bogs require a plentiful supply of water, and to provide this the grower follows a system of irrigation. Ditches are excavated through the bogs, and from these, 100 to 300 feet apart, laterals, or cross ditches, are constructed, in which the water runs from 6 to 12 inches deep. The flow of water is regulated by a gate, and the different sections of the bog are separated by

FROST THE CRANBERRY'S ENEMY.

The dikes are essential features of the bog, because by their aid the flooding process is accomplished. Frost is the cranberry's enemy, and, singularly, water is the only protection for the berries. Thus, when a gower believes a frosty night is at hand, he floods those sections of the bog where the fruit remains ungathered, letting the water in until its level is from 18 to 24 inches over the tops of the vines. With the coming of the sun the water is drained off, and in a short time the ground is dry enough for the pickers to work. After the crop is gathered, in fact fom the first of October until the last of March, the bog is under water.

The cranberry vine blossoms in June, and it is its appearance at this stage of growth that gave the berry its name. Just before expanding into perfect flower the stem, calyx and petals resemble the neck, head, and bill of a crane. Hence the name "craneberry," which usage has shortened into cranberry.

begins, although October may be, more properly, called the harvest month. When the section of the bog where the picking is to start is selected, it is divided into rows, the boundary lines being marked by stout twine, running the entire length of the section. These rows vary in width from 2 to 3 feet. A row is assigned to a picker, who must thoroughly strip the vines therein before he is allowed to move to another row.

The method of removing the berries from the vines is simple and expeditious. The picker places his fingers, slightly spread apart, beneath the vine or bush, close to the ground, a quick upward movement, and his hands have stripped the vine of its fruit. The berries are dropped into a pan by the pickres are uropped into a pan by the pacter's side. When this pan is filled it is emptied into a pail holding  $\frac{1}{3}$  of a bushel, the contents of these pails, in turn, being placed in crates. The crates are taken to the storehouse, where the berries are put through a winnowing ma-chine, which removes the dirt and leaves collected by the harvest. Following this the berries are crated or barreled, and made ready for shipment.

WAGES OF THE PICKERS.

The pickers average from 7 to 20 pails day, the number being regulated by in dividual skill. The average price paid is 12 cents a pail. A picker may be of almost any age, and it is no unusual sight to see whole families at work in the bogs during the comparatively short season of picking. The pickers are gen-erally farmer folk of the neighborhood, who take this method of adding to the year's income.

Coincident with the opening of the picking season, early in September, the new crop of berries begins to appear in the market. Few persons, dealers say, are able to distinguish the old from the new. The newcomers are worth about \$5 a barrel to the producer, but by the time they reach the consumer the price is likely to be 10 cents a quart, although if the supply be plentiful, the price is occasionally not more than 5 cents a

These pioneer berries come from Cape Cod. It is here that cranberry cultivation was inaugurated at the beginning of the last century. Cape Cod furnishes a large proportion of the best berries and about % of the total crop of New England. Next in volume of productiveness comes New Jersey. Part of the State's crop is made up of wild cranberries. These are sometimes picked before they have begun to color, then spread on the ground and exposed to the sun for six weeks. It is claimed that in this way a deeper color is secured.

Following New Jersey comes New York berries, most of which are grown on Long Island. These, as a whole, are particularly good berries, large in size, and, for that reason, attractive. The cranberry is the one fruit whose quality is held second to its appearance.

CRANBERRIES FOR EUROPE.

There are cranberry bogs in Wisconsin, Michigan, Minnesota, Iowa, Indiana, and northern Ohio, and the times of harvest and marketing are about the same as in the East. The Western berry seldom finds its way East, for the home demand is as great as the supply. For this reason the Eastern berry often finds its way well toward and some-times beyond the Mississippi. General-ly it is of better quality, for the pro-portion of Western berries gathered from wild vines is large.

Every year cranberries are shipped to Europe, and statistics show a steady increase of exportation. It is only natural that this increase should occur, because the American cranberry is superior to the European.

England receives most of its cranberries from Norway and Sweden, but they are not nearly as good as the American product. Perhaps poor quality has caused the cranberry to lack in popularity abroad. Certain it is that nowhere is this berry so popular as in the United States, where the quantity consumed is larger than the rest of the world

Pruning Grape-vines.

The time usually recommended for this work is soon after the leaves fall Most farmers are busy husking corn in November and do not find time for jobs until later on. Any warm spell in the winter will do, though if put off too long the work is apt to be entirely neglected. The vines are apt to break if handled when frozen and on no account should they be cut after the sap has begun to flow in the spring, for the sap will run from cut ends, which would have healed if cut when dormant.

nortened into cranberry.

The directions given for pruning In September the cranberry harvest grape-vines in such standard works as

Fuller and Hussman are bewilderingly complicated to the average person, giving the impression that it is an occult and difficult art. It is really simple enough, though requiring care, judgment, and experience. The renewal, or fan system, is one of the best. Three or four new canes are grown each year from the crown or base of the vine. These are pinched back when 3 to 5 feet high, causing them to throw out laterals or side branches. These are shortened to 2 or 3 buds in the fall. The next year more new canes are grown in the same way, the ones that bear being cut out in the fall. In this way the entire vine is renewed each year. A grape-vine pruned in the ordinary way may be gradually changed to the renewal system by cutting off one or more of the old vines near the crown. This will cause new canes to spring up and the next year the remaining old vines may be cut out.

The ordinary farmer doesn't care to give his vines the requisite attention to follow any particular system, thinking he does well if he gives them any sort of pruning once a year. Whether grape-vines are given much or little pruning, it is necessary to understand something of their structure and habit of growth in order to secure best results. The first thing to bear in mind is the fact that all fruit is borne on wood that grew the previous year. In order to keep the vines the same size as much old wood must be cut out each year as is left of new wood. A knowledge of these facts greatly simplifies the work and renders it easy to keep the vines well in hand. Most vines have too much bearing wood and as this increases the vitality of the vine decreases. So many bunches of fruit set that the roots can not supply moisture and nourishment enough to

make them large and fine. Examine a cane or lateral of this year's growth and at the end of each joint or section a bud will be found on one side of the cane. Just below this bud there is a scar, where a leaf has been detached. On the opposite side of the cane there is usually a tendril or has been a bunch of fruit. New canes will grow from the buds next year, producing fruit, leaves, tendrils, and buds, same as did the canes from which they sprang did this year. The first bud, or one nearest the base of the new cane, is the strongest and most valuable for fruiting purposes. Three or four buds are enough for each lateral, so the rest of the cane is cut off. A dozen of these stubs is enough for one vine and half as many is plenty for a young or weak vine. One must use one's best judgment in deciding how many fruiting stubs to leave and which ones. Aim to have them as evenly distributed as possible over the framework of the vine, keeping the bearing wood as low down as possible, as the tendency is for the most growth to be at the end of the vine. Prune systematically and regularly once each year.

O. H. BARNHILL.

Shenandoah, Iowa.

#### A Gracious Response.

Count Fersen, Marie Antoinette's devoted servant, tells a pretty story which shows the charm words can have to deeds. It was when the royal family of France had been turned back at Varennes in their vain effort to escape turned back towards Paris, where the mob even then was clamoring for their lives. They stopped to rest at the house of Mme. de Lagny, a royalist, who did all she could for their comfort. Madame waited at the table herself, serving the king and queen with swift and silent zeal. The poor queen in the midst of her despair noticed what had been done for her and hers. "Where is the mis-tress of the house?" said she. "I should like to see her and to thank her." "I was the mistress of the house," responded Mms. de Lagny, simply, "until your majesty entered it." Surely the word which beautified the service! An English woman would have left it unspoken.

Deafness Can Not Be Cured

by local applications, as they can not reach the diseased portion of the ear. There is only one way to cure Deafness, and that is by constitutional remedies. Deafness is caused by an inflamed condition of the mucous lining of the Eustachian Tube. When this tube gets inflamed you have a rumbling sound or imperfect hearing, and when it is entirely closed Deafness is the result, and unless the inflammation can be taken out and this tube restored to its normal condition, hearing will be destroyed forever; nine cases out of ten are caused by catarrh, which is nothing but an inflamed condition of the mucous surfaces.

faces.

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this change of season and prepare for it. In this way the discomforts disasters suffered by many women at the period of change can be avoided or over-

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appetite and induces refreshing sleep.

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### The Poultry Hard.

Heat, Air, and Mosture in Artificial Incubation.

Three things, heat, air, and moisture, are necessary to the germination or growth of any seed in the vegetable kingdom, or incubation, or growth of any seed or egg in the animal kingdom. HEAT.

The first named, or heat, is the easiest condition of the 3 to understand and con-

The medical world agree that 98° Farenheit is blood heat and scientific experimenters practically agree that  $4\frac{1}{2}$ ° above blood heat, or  $102\frac{1}{2}$ ° or 103° surrounding practically all domestic fowls' eggs, is incubating temperature. When a hen lays out her clutch of eggs she becomes broody and simultaneously the heat in the lower part of her abdomen increases to what might be called an incubating fever, producing a temperature in the nest of 102½° or 103°.

Then if we gradually bring the tem-

perature of our incubators up to 1021/2° or 103° and steadily hold it there it would seem that we had applied heat properly in the incubation of eggs, and any temperature above that except for a short time, say twelve hours at the last end of the hatch, we believe to be detrimental to a good hatch.

We know that in nature a hen leaves

her nest for food, drink, and exercise; she also rises and stands over her eggs and rearranges them with her beak. All these exposes to fresh air, some half dozen to a dozen times half dozen to a dozen times a day, allows the eggs to cool a little, and also allows the impure air that has gathered in the nest to all or partially pass off, so it appears that a little cooling and exposure to fresh air is beneficial to a good hatch.

VENTILATION.

The quantity of fresh air necessary to pass through an incubator is more difficult to understand than the heat question. The writer is of the opinion that there can not be too much pure, fresh air caused to pass through an incubator when drafts and currents are kept at a minimum and the air is either kept at the right humidity or caused to pass in such a way that it does not absorb the moisture or water from the egg too rapidly, as he has never yet heard of any person being hurt by the use of too much of the etheral fluid called air.

MOISTURE.

During incubation the air cell in an egg increases in size until often an egg has lost from 10 to 20 per cent of its original weight. Therefore the question of the proper evaporation of the contents of an egg or the watery part of it during artificial incubation is an exceedingly tough problem to solve. If the humidity of the air and ventilation harmonize the moisture problem is set-If the air is too dry moisture is needed, or less ventilation. If the air is too wet, more ventilation or less moisture is needed. It is plainly evident that if too little evaporation or shrinkage of the contents of the egg takes place during the incubation period, the chick is so large and tight in the shell on the twentieth day that even if it pips, as it often does, it can not move or turn in the shell and pip the hole already made any larger, and therefore it remains as fast as if it was in a vice and soon dies, which it might as well do, for if it could get out in such a watery, plump, weak condition it would around a day or two and die anyway. This can be easily proven by picking the shells off from a few chicks this kind and watching them after wards.

On the other hand, it is just as plain to be seen and understood that if the contents of the egg is dried down too much while incubating there is too much substance gone that should be in the chick when it emerges from the shell, and therefore it is also too weak to stand the rough and tumble of a life in this world, and it also dies. Under the hen this drying down seems to be timed much better than in the incubator, as there is a much smaller per cent of the chicks that die in the shell, seemingly matured or full grown, than there is in the incubator.

These conditions commenced to stare the writer in the face when he began using incubators, and after 1 or 2 dozen hatches he came to the conclusion that holding an egg between ourselves and a lighted lamp in a dark room or floating it in the water, the two common methods, to ascertain when the shrinkage

KIDNEY PAINS Are located in the small of the back and may appear on one or both sides. These are dangerous symptoms because they indicate the early appearance of Bright's Disease. Is an effective kidney medicine. It conveys a healing and strengthening influence to the suffering kidneys, stops the wasting of the kidney tissue, stimulates digestion, cleanses the liver and bowels and puts the entire system in order. Sold at Drug Stores. Price, \$1.00 Per Bottle.

the case of the lamp the air cell may be either concave or convex, high around the edge or low around the edge, and as you look at it the line showing size of the air cell will be at the highest point of matter below the cell. In the case of floating, the air cell is always larger than the part of the egg shown above the water, which you can easily determine by floating an egg in dirty or inky water until the shell is colored a little, then holding it between you and a lighted lamp in a dark room.

Even if these processes were reliable, I have failed so far to find two per-sons in looking at an egg towards a lamp or floating it who would agree in their estimate (for it is only an estimate), as to wether the cell was right or wrong in size, and I am at a loss to know how a novice is going to know when the air cell in his eggs are right if he never looked at an egg while in-cubating before in his life. He does not know. Some happen to hit it just right on account of the moisture of their cellar or some application of moisture they have hit upon accidentally, and then they stick to that plan in that cellar or room and get good results, but when they move to another cellar or room their luck is all gone; others experiment and experiment on the air cell, and never get a good hatch, and throw the incubators away in disgust. The difficulty was to know when shrinkage was right.

The writer has been over all this ground with varied results and after two years of experimenting, weighing about 2,000 eggs, one at a time, each 4 times, while incubating under hens in various places in order to learn what the normal shrinkage was under natural conditions under the hen, and after learning this, finally invented

TRESTER'S MOISTURE INDICATOR.

Taking a duck egg as a standard and dividing it into 100 points and knowing what the proper evaporation under the hen should be the operator can easily tell from day to day whether they are shrinking properly or not and regulate it by adding moisture or ventilation.

It is a spring balance scale made delicate enough to show by weight what the egg loses each day while in-cubating, and to give his friends the benefit of his work and make all matters clear so far as he has gone, he herewith submits a variety of the experiments he made.

Each egg was numbered on the little end and weighed 4 times, marking the weight on the shell under the number each time it was weighed. The same record was also kept in a book. But so long as the eggs from various hens and various breeds are mixed up the shrinkage will be uneven, and hatches not the best that might be had otherwise.

In my experimenting two things were necessary to learn, first, how much does an egg shrink under natural incubation; second, when does the shrinkage take place, first, second, or third week. To prove this I divided the incubation time into 3 periods of six days each so that the last weighing would be done before pipping began, and the average of my experiments shows that the shrinkage is practically the same each and every day of incubation whether the eggs were fertile or unfertile.

The eggs I used were principally Barred Plymouth Rock eggs gathered promiscuously from 200 to 300 hens, and the weight of each egg and general average of each lot is given.

These weighing records are too extensive for a periodical and are there-fore put in pamphlet form.

A partial discription and account of was right, was wholly unreliable. In my experiments will be mailed free if

you name this paper and drop postal card to M. L. Trester, Box a 43. Lincoln, Neb. Copyrighted by M. L. Trester.

Roup.

EDITOR KANSAS FARMER:-Please give a cure for roup in fowls. MISS LUCILE BROWN.

Hamilton County.

Roup in fowls is a bad cold in the head and is characterized by bleary eyes and swollen head. It is the grippe, and, like that ailment in the human being, is hard to handle. The causes of roup are the same as causes of a cold in mankind and may be due to any one of several conditions which are present, the most potent of them being perhaps, a damp, draughty hen house. Causes of this class which produce roup are all preventable and are all due to poor care or neglect.

There seems, however, to be occas-sional outbreaks of roup which are not traceable to any such cause and to be epidemic and the result of atmospheric conditions. When roup is present, however, it is absolutely necessary to begin treatment by removing the cause. If this can not be done, then the fowls must be removed to warm, dry quarters where they are protected against dampness, and especially against draughts in cold and wet weather.

Preventive measures are always best.

Take care of the birds. Keep them warm, dry, and comfortable. Feed well, but judiciously, and give clean, fresh

Remember that cleanliness is important. One of the simplest remedies for roup that we have seen recommended is lime water. First separate the sick fowls from the well ones, then thoroughly cleanse the quarters, using plenty of whitewash and lime sprinkled about. Then put a gallon of fresh, strong lime in a jar and pour over it enough water to cover it 5 or 6 inches. Let this stand three or four hours, and dip off carefully, and give to the fowls, allowing them no other drink until after they are well. During sickness feed them corn-meal or Kaffir-corn-meal mush made up with this same lime water which must be strong enough to turn the corn-meal yellow This is cheap

and seems very effective. Another writer is very successful by administering Mustang Liniment according to directions on the bottle. In case of badly diseased heads he bathes the head in strong alum water, and, in the event the swellings should break, then bathe the head in strong soap suds to drops of carbolic acid have been added.

Remember that prevention is the best

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A. H. DUFF, Larned, Kansas.

### Brain Markets.

Conducted by James Butler, secretary of the Farm of Co-operative Grain and Live Stock Association.

"The human race is divided into two classes,— these who go ahead and do something, and those who sit still and say, why wasn't it done the other way."—Oliver W. Holmes.

Markets to 2 p. m., Tuesday, December 3, 1901.

Markets closed firm in all the center exchanges of the country, as follows:
Chicago.—No. 2 red wheat, 77½-78c; No. 2 hard wheat, 75-75½c; No. 2 corn 63-63½c; No. 2 oats, 46-46½c. kansas City.—No. 2 red wheat, 76-

77c; No. 2 hard wheat, 73c; No. 3 hard wheat, 71½-72c; No. 2 corn, 67-67½c; No. 3 corn, 66-66½c; No. 2 oats, 46c Kansas City closed very firm on ac-

count smallness of receipts, only 29 cars to-day.

#### Market Letter.

BY F. W. FRASIUS, OF THE FARMERS' CO-OPERATIVE GRAIN AND LIVE STOCK

ASSOCIATION. December 2, 1901. In spite of the continued bearish statistical news-increase of stocks of wheat reported from every quarter-the price of wheat has not only been well maintained during the last week, but a substantial advance has been scored. Strong efforts have been made by the great elevator interest of the Northwest to break prices but without results, notwithstanding the farmers of the Northwest with their tremendous wheat deliveries have aided in this effort—unconsciously perhaps—to break prices. Now, to any observer this condition, at present existing, if studied, must have been patent for some time; the general situation, high prices and scarcity of all other food stuffs, the short crops abroad, in importing as well as exporting countries, the financial condition of the country, the amount of wheat fed on farms, in fact all conditions have tended to create higher prices, and the only argument for lower prices have been accumulations of public stocks, in America or the visible supply, which is now 52,395,000 bushels and increased 3,484,000 bushels this week. The European public stocks, according to Bradstreet, have also increased. In the Southwest receipts are very low and hardly sufficient to supply the local mills of this territory. Exports are again on the increase and were 5,117,-478 bushels last week, compared with only 2,498,000 bushels for the corresponding week last year, but the aggregate primary receipts, as proven by the increase in the visible, are still very large. Argentine shipments to Europe are very low at present, hardly amounting to one-tenth of these shipments a year ago. Exports of wheat and flour since July 1, however, have broken all former records and for the twenty-two weeks amount to 128,761,000 bushels, compared with 77,899,000 bushels for the corresponding time a year ago. A new demand has sprung up lately for our surplus. I have reference to the demand for wheat from our sister republic, Mexico. Most of this demand will be supplied from the Pacific Coast. In view of all of this I can not refrain from encouraging our friends to hold on to their wheat. Indeed they will remember that I have advised this course for some time and have the extreme satisfaction of knowing that wheat has advanced nearly 10 cents since I began to feel bullish on wheat, and since I advised our friends to hold. I could give many more reasons why I believe wheat will sell higher. For instance, "Broomhall," the acknowledged highest authority on crop conditions in Europe, has this to say: "The world's productions of the five leading cereals, wheat, corn, rye, barley, and oats, amount to only 9,144,000,000 bushels, against an average production during the past ten years of 10,184,000,000 bushels, a shortage of over 1,000,000,000 bushels of all kinds of grain. Add to this the shortage in other products, especially potatoes, and it seems to me the most conservative farmer can not help but see higher prices. The condition of the groveing wheat too is causing some anxiety, it being very dry in many places of the Southwest. It seems to me our farmer friends ought to take advantage of

#### The Grain Trust at Its Tricks.

these conditions.

The prospects of the Farmers' Cove Grain and Live Stock Association of Kansas were never brighter than to-day. Every day adds new strength and vigor. Our friends are increasing steadily and never before has the cause had so many earnest investigators as it has at this time. Investigation of the object and purpose convinces and adds

other working members.

While our people have been loyal and true as a general rule, I desire to point out errors that have been made in other States and believe that our people, when they understand the methods used by the trust to wreck farm organizations in other States, will profit by the mistakes others have made and avoid their damaging tendencies.

Therefore I desire to call attention to the methods used by the grain trust in Minnesota and the Dakotas to demoralize the farmers' associations which were organized in those States to relieve the farmers from the extortion practiced upon them by the trust. When the trust became so oppressive the farmers organized local associations and more than 140 eleva-tors were built by them.

This movement had the desired effect and forced the trust to pay all the grain was worth. The trust met this condition of affairs by actually paying more than the grain was worth for a short period of time. By this method they succeeded in flustrating the farmers and laid a plan for the purpose of disorganizing the farmers and driving them out of business. This in many cases they succeeded in doing. They actually paid more for grain for a short time than the market would justify. The farmers sold to them, gave them their patronage and very soon the farmers' elevators were being conducted at a loss. This created dissatisfaction among them and the rest of the work was easy for the trust.

The farmers walked into the trap laid for them by the trust, and caused the failure of their own elevator companies. They were too near-sighted to see the result of their own actions. This being the case it is almost impossible to reorganize them and the trust is now reaping a rich harvest by charg-ing the farmers exorbitant margins for handling their grain and transacting

their business.

The farm organizations and the farmers themselves divided their business in such a way that independent dealers and commission men were forced into the trust. Had the farmers and independent dealers used ordinary business tact they would have selected one firm, or better still, organized a company of their own, given them their entire patronage, and paid a small penalty when they sold to others. Had they done this, they would have been in the field to-day, strong and independent of the

But as it is they are now at the mercy of the grain trust and are forced to sell at whatever price the trust offers. They did not stand together, they did not sell together, they did not practice any discipline, nor did they use good business judgment. If farmers and independent dealers follow the same course in Kansas they will end in the same way. If they do not work to-gether and sell together, they will not last long, and the Kansas farmers will then be in the same position as the Minnesota and the Dakota farmers and will pay dearly for their stupidity and folly.

To illustrate this proposition we will take 40 shipping associations that are shipping, say 2 cars each per week. If all ship to one firm or company, that would make 80 cars a week for that firm to handle and that would give them prestige in the grain trade and would also enable them to fight for your inter-On the other hand, if you divide your business with ten firms they would each get 8 cars per week, and would not be enabled to assist your cause—in fact they would have to go to the wall and would be forced to join the combination against you.

It is impossible for commission firms to stand out and act independently of the trust. The contest lies squarely with the farmers' organization against methods must succumb to the inevitable; must give way to intelligent or-

ganization and concentrated action. The trust, organized as it is, notwith-standing all the injustice it has perpetrated against the farmers, will win as against the farmers and independent dealers if they are not organized. We want to give you fair warning that without a firm, solid organization of intelligent farmers there is no hope for the defeat of the trust methods that are now in control of a large part of the grain business.

A year ago there was not a grain firm in Kansas City that advertised for the farmers' consignments. It would have been suicidal in a business way for them to have done so. But now, since the Farmers' Cooperative Grain and Live Stock Association has been organ-ized and stands ready to transact the business for farmers, independent dealers, and scoop-shovel men, the combine commission men who work as the trust

The Farmers' Co-operative Grain and

\*

...Live Stock Association...

Will handle your grain, hay, and feed on commission. If you appreciate honest work, good treatment, and prompt returns, consign your grain to us. We want the consignment of all co-operation associations, independent dealers, scoop shovel men, and farmers. Correspondence solicited.

Address all communications to

JAMES BUTLER, Secretary, Room 14, Office Block, Topeka, Kansas 

dictates, are soliciting your consign- we have an exhibition of 500 jacks and ments for the express purpose of divid- 1,000 mules. ing your business, weakening our or-ganization, destroying our influence, de-feating the purpose of our association, and causing the entire ruin of the farmers' movement.

To give your business to competitors simply because you can do as well will wipe out all independent dealers from the field in the near future and place you in a helpless condition. The same tactics are being used by the trust of this State at this time that were used in Minnesota, and some of the cooperative associations and nearly all of the independent dealers are blindly following the course outlined for them by the

It ought to be evident to all that this is an age where organization succeeds and those who do not organize suffer. It is necessary to meet the grain trust organization by an organization of the producers of the grain; otherwise the grain trust will succeed here as elsewhere. We must meet organization with organization. If you are led away by some commission firm and give them your patronage, you weaken the farmers' movement just that much and you are doing just what the trust magnates

want you to do.

If they can keep the business of the farmers' organizations divided, disintegration is sure to follow and the trust is the winner. Remember that the Farmers' Coöperative Grain and Live Stock Association is your association. Its welfare is your welfare, its people are your people, and its ultimate success is your success. Determine this day whom you will serve. Inasmuch as you can not serve God and mammon. neither can you serve your interest and send your grain to members of the grain trust.

Even if you should apparently at this time get back from them a few pennies where they have in the past taken dollars from you, the result of your selling to the trust at this time will result as disastrously to your own and your neighbors welfare as it did to the farmers of the Northwest who fell into just such a trap as the grain trust has so skillfully set for the farmers of the State of Kansas.

Will you walk into this trap willingly, knowing the results that are sure to follow such an action, or will you assist those who are at this time striving to break the yoke of the oppressor? I believe the people of Kansas are too intelligent to be caught in a secondhand trap after fair warning.

To the Jack and Mule Men of the United States.

We are approaching another World's

At the suggestion of the management of the World's Fair at St. Louis in 1903, the Live Stock Breeders of America, who have formed stud books for their various breeds, held meetings in St. Louis, Mo., on August 30, and October 12, 1901; and at these meet-ings a committee was appointed, representing the various breeds of registered animals as well as those not registered.

For this general committee, and executive committee consisting of 12 was appointed to formulate plans for the show of the live stock, and classify the different breeds of stock, and make classes for each breed, and report to the committee.

The undersigned was placed on this committee, over his protest, and was put in charge of the jack and mule department.

And it now behooves us all to put our shoulders to the wheel and make this the grandest and most magnificent ever had or seen in any age.

This industry is yet in its infancy, and if we are to reap the harvest that is due us, we must spare no pains in getting the best stock in the country, and get it in the best shape, and let everybody take something to this fair. Don't stand back and say that there will be plenty there without mine, but take yours and swell the number until

The American army mule is attracting the entire world, and no nation now will think of going to war without first seeing the outlook for the purchase of this animal.

He seems to be indispensible in times of war as well as in time of peace.

Some one will say, "Aren't you commencing too soon?" No! The jack and mule men are said to be slow to start, slow to travel, and it is said they get there after the feast is over.

The classes will be arranged so that all sections can be represented, from the 121/2 hand pack mule to the 17 hand drafter.

Special attention will be drawn to the army mule, and all his classes will be represented, and every quartermaster, and purchasing agent of every government on the globe, who can be reached, will be notified, and invited to attend and inspect this display of army

Think of these figures! Ten million dollars have been left in the United States lately by European governments for army mules, Great Britain taking the largest number.

And now the papers inform us that 1,000 carloads are being shipped from the city of Fort Worth in the State of Texas for the use of the British government in her wars.

Kansas City, St. Louis, New Orleans. and a number of other places, have shipped their thousands, until the mule is becoming an item of great export trade in the Union.

Don't be afraid to breed them. There will be more demands than you will raise.

Fact and figures tell the tale. Nearly every State in the Union has more or less mules, and in the great majority of them the mules are valued on an average, \$10 higher than the horse. Is this not wonderful! Since you have your \$25,000, and even \$100,000 horses, and numbers galore valued at \$1,000 to \$10,000, yet the mule with his even valuation is worth more than the horse per head.

But one says, "This is in the mule States."

But is Connecticut a mule State? In that State horses are valued at \$73.06, and mules at \$87.73, in 1900.

Take the District of Columbia, in

which is situated the capital of the nation, and mules are valued at \$75.69, while horses are only valued at \$67.93.

Now, if the mule can do this, when his dam is bred, in the country general.

ly, to the jack only when she is deemed too much blemished or unfit to breed to a horse, what could the mule do if he had the chance of having for his dam the best mares in the land, such as are bred to these fine horses? We don't want these horse breeders to quit breeding, nor will they do it, for we are looking for better mares to get better mules from. Now, if we can increase the value of the horses of the country, and bring them up to the valuation of the mule, then the country would be richer by \$150,000,000, that is \$10 per head on her 10,000,000 of horses in the United States in 1890.

The live stock of the United States in 1880 was \$1,500,000,000, and in 1890 it was \$2,200,000,000 in round numbers, an increase of 50 per cent in ten years. Take the State of Illionis, with her



1,135,000 horses in 1890, and put the valuation of the mule on them, and you have a State richer by \$13,350,000.

These illustrations show the possi-

bilities you may attain. Be sure to get something ready for the World's Fair, and bring it there, and bring Susan and the children, for it is going to be the biggest show, the grandest display and more of it than

Write me what you have in this line, and commence getting it ready, and if you want any information write me, and I will have your wants attended to at once.

has even been exhibited on the globe.

J. L. Jones, Columbia, Tenn. Member of the executive committee, in charge of the jack and mule department.

#### Breeding Up Alfalfa Possible.

T. J. LUCCOCK, CALIFORNIA.

Most farmers, and even alfalfa growers, if asked whether there is more than one kind of alfalfa would say, No, it seems to be all alike. Some of my neighbors disputed quite strongly with me when I spoke at a farmers' institute of the variations to be found in different alfalfa plants, refusing to believe that

there is any real difference.
Of course, where there is a thick stand the stalks are all forced upright and mingle together, so that the characteristics of each can not be seen, but if you will carefully examine a field where the plants are very thinly set, and therefore have an opportunity to show the differences in their nature by their style of growth, you will see that they are very far from being all alike. Some will be lying so flat on the ground that it would be impossible to cut them with a mower, while others grow so upright that they look as if they had been tied to a stake. Then again the leaves on some plants are small and narrow, while those on others are large and round, and since the leaves are the best part of the plant this is of very great importance. If you will look at such a field a week or two after cutting you will see that some plants are only just beginning to grow, while others have already attained a height of 6 or 8 inches.

In the blossoms similar variations oc-On some plants they are almost white, while on others they are of a deep purple. Now, I contend that where nature has already made so many variations, man, by careful selection and other means, may make even greater and more important ones. This is a work which can not be done by the farmer, as he has neither the time, skill, nor the appliances to accomplish it, but the experiment stations have all the facilities, and I hope it will not be long before some station will take hold of the matter and succeed in giving us a better variety of alfalfa than we are at present cultivating. If only 100 or 200 pounds of hay per acre at each cutting could be added to the crop, by such improvement it would add millions of dollars annually to the income of alfalfa growers.

#### Supremacy of Anglo-Saxons.

There are few people who have more than a faint conception of what the consummation of the proposed Anglo-American Alliance would really mean.

Popular comprehension never realizes that in addition to having the supremacy of the ocean and being the wealthiest people in the universe the new nation would for countless other reasons be the most flourishing and consequently the happiest people in existence.

The new nation would become absolute sovereigns of the world, with a military, naval, commercial, financial, territorial, and population supremacy, bringing the whole earth under its

In the first place, there would be 473,-500,000 Anglo-Saxons, as against 217,-00 Russians, French, and Spanish. In the matter of national debts, each Anglo-Saxon would owe only £3, while every Russian would owe £6, and the unhappy subject of the Triple Alliance would have to disburse more than £10.

The Anglo-Saxons would head the list with a yearly income of £379,800,000 followed by allied Russia, France and Spain with £319,370,600, and by Russia alone with £133,103,800.

But, besides the advantages already noticed, the Anglo-Saxons have others which would go to make the new nation the most powerful and prosperous in the history of the world.

First of all, they are essentially successful in commerce; their export trade makes that of their competitors look small and feeble; and the facilities they possess for internal communicationthat is, railways—and for external com-munication—their merchant navy—go to put the trade of the two countries generally in a flourishing condition.

Compare the exports of the allied Anglo-Saxons with Russia. We see that the Russian trade is about one-fourteenth that of the Anglo-Saxons, which amounts in a year to £825,251,600.

The trade of the new Triple Alliance

is only just over a quarter of this—£239,920,600.

The Anglo-Saxon's superiority in railways is strikingly demonstrated by the lengths of three trains; the longest train, which represents their railways, measures 267,150 miles; the Russian train measures 80,555 miles, and the last one, representing the combined railways in Russia, France, and Spain, 167,260

In their navy of merchant vessels, also, the Anglo-Saxons, with a total ton-nage of 19,236,000 tons, stand far ahead of all their rivals—Russia having a ton-nage of only 967,000 and the Triple Alliance one of 3,037,000.

The last comparison we shall make is, perhaps, the most important of all.

It is between the military forces—on land and on sea—of the Anglo-Saxons, those of Russia, their greatest rival, and those of Russia France and Spain to. those of Russia, France, and Spain to-gether, the assumption being that this is the greatest possible combination that can be formed against the Anglo-Saxon Empire.

Comparing first the land force of the three Empires, the figures given are to be taken as the utmost that each could raise in case of extreme need—the Anglo-Saxons, in spite of the fact that their standing army, compared with the armaments of some of her rivals is not large, could put in the field 67,714,000 men; the Russians 19,428,000, and France and Spain just over 12,000,000 be-tween them, bringing the total for the Allied Empire to 31,516,000 men.

No comparison that could be made of the number of men in the navies of the three Empires or of the number of warships belonging to each, would do justice to all three Empires.

As far as the actual number of men are concerned, the advantage is on the side of the Anglo-Saxons; but, on the other hand, the number of ships in the navy of the Anglo-Saxon Empire would navy of the Anglo-Saxon Empire would be less than the number in the Russian-French-Spanish Empire.

It must be remembered, however, that the quality of the ships in the Russian-French-Spanish Empire is inferior to that of the ships of the Anglo-Saxon

The method which has been here employed to illustrate the respective importance of the navies of the three Empires has at least this recommendation that it affords justice to both sides.

It rests on the difference in the number of guns carried by the navies of the three Empires, and may be considered as a very fair criterion of their respective powers.

The Anglo-Saxon battery contains 13,-319 guns; and considering that these are better manned than those of Russia, France, and Spain, they would probably have little trouble in overcoming such

opposition as might be offered them.

This is the most certain in that the guns of Russia only number 5,013; and that those of Russia, France, and Spain together, only 10,993. With this striking preponderance in our favor, we should certainly have little need for anxiety on the score of invasion or expulsion by force of arms.

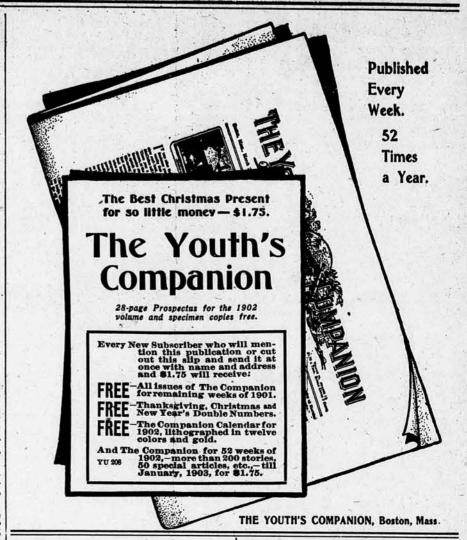
With these figures before us, there is little reason to doubt that the consummation of an alliance between the United States and Great Britain would bring into being a power greater than any that the world has seen in modern or in ancient times.

Against any single rival a contest waged by the new empire, whether in the arts of peace or in the grimmer busi-ness of war, could have but one result crushing defeat for their enemy.

The reason for this is not far to seek. in races have had their day, and their last pretensions to sovereign power of the world, or even of Europe, flickered out when at the beginning of the last century, the Saxons triumphed over them on the field of Waterloo.—Pearson's Magazine.

#### Oak Grange Farmers' Institute.

EDITOR KANSAS FARMER:-The fourteenth annual Farmers' Institute of Mission Township will be held in Oak Grange Hall on December 17 and 18. The evening of the 17th will be devoted to an experience meeting on the work of 1901, and on the 18th addresses will be made by Dr. Henry Wallace, editor of Wallace's Farmer, of Des Moines, Iowa; Prof. E. B. Cowgill, editor of the Kansas Farmer; Prof. H. M. Cottrell, of the agricultural college; Mrs. Margaret Hill McCarter, of To-peka; Hons. A. L. Brooke and Guilford



the sowing, raising, feeding, and pasturing of alfalfa, as well as the ma-terial interests of our girls and boys. Good music is promised. A basket dinner on Wednesday. It is confidently expected to make this one of the best institutes held in the State, A large attendance of those interested in advanced agriculture is desired.

BRADFORD MILLER

The Supreme Court at Washington has just rendered a decision which may give both the sugar refining trust and the beet sugar trust something to do besides fighting each other. Under this decision, until a law to the contrary shall be enacted by Congress, Philippine Islands products must be admitted to the United States duty free. This strikes both trusts as to sugar. It is said that sugar can be produced in the said that sugar can be produced in the Philippines at half what it costs to produce it in this country. Immediately following the decision of the Su-preme Court comes the news that the two sugar interests have ceased fighting each other, and that sugar has advanced about 33 per cent at Missouri River points.

Congress convened last Monday. President Roosevelt's first message was read to both branches on Tuesday. He eulogizes President McKinley, handles anarchists in his own vigorous fashion, holds that trusts should be regulated but not suppressed, favors a Chinese exclusion law to take the place of the one soon to expire by limitation, urges aid to American shipping, and that the tariff laws shall not be disturbed. Almost every prominent question of public interest is considered in the frank and manly way for which the President

The editor will be glad to have letters from over the State telling what feeds are being given to stock, how much of each kind, and how the animals are doing under present conditions.

### **FARMER AND CAPITAL**

**\$1.25.** 

The Semi-weekly Capital, published twice a week at Topeka, Kansas, is an excellent 8-page Republican newspaper. It is issued Tuesday and Friday of each week and contains all the news of Kansas and the world up to the hour of going to press.

To a farmer who cannot get his mail every day it is as good as a daily and much cheaper.

By a special arrangement we are enabled to send the Kansas Farmer and Semi-weekly Capital both one year for \$1.25. This is one of our Lest combinapeka; Hons. A. L. Brooke and Guilford tion offers and you can't afford to miss Dudley, and others of Shawnee County. Especial attention will be given to CO., Topeka, Kansas.

### DR. HENDERSON 101-103 W. 9th St., Kansas City, Mo.

A Regular Graduate in Medicine. Over 30 Years'
Practice—22 in Kansas City.
The Oldest in Age and Longest Located.
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#### DRILLING Machines

sizes and styles, for drilling either deep or wells in any kind of soil or rock. Mounted sor on sills, With engines or horse powers, simple and durable. Any mechanic can them easily. Send for catalog. te them easily. Send for catalog. WILLIAMS BROS., Ithaca, N. Y.

## Cheap Trip to Great Southwest

Homeseekers' excursions to Kansas, Oklahoma, Texas, Colorado, Utah, New Mexico. and Arizona. October 15, November 5 and 19, December 3 and 17. Only one fare plus \$2.00 round trip.
The great Southwest is an open door of opportunity for the hustler. Take a trip there this fall.

#### Santa Fe.

Address T. L. King, Agent Santa Fe, Topeka, Kans.

### In the Dairy

Conducted by D.-H. Otis, Professor of Dairy Husbandry, Kansas Experiment Station, Manhattan, Kansto whom all correspondence with this department should be addressed.

#### Brown Elsie's Grandson.

Last week we presented our readers with a cut and short article concerning Brown Elsie. The Kansas State Agri-cultural College is especially fortunate in having a grandson of this famous cow, Brown Elsie's Grandson 60412. This young bull was born October 22, 1900, and was purchased this last summer from H. C. Taylor, Orfordsville, Wis-consin. An abbreviated pedigree fol-

cause they have a broader knowledge of

valuable institutions in the State. No farmer nor dairyman can afford to be without the many practical and interesting bulletins you publish, and no young man who intends being an agriculturist or dairyman should miss the opportunity of being thoroughly equipped in the theoretical and practical knowledge necessary to make his business a pleasure and a success.

Diploma 16219..... Sire of fifty-four tested daughters.

Recorder 29239...... Sire of seven tested daughters.

Combination 4389.

Brown Bessie 74997. Champion butter cow at the World's Fair.

Diploma 2d 36874.... Brother of Merry Maiden, the sweep-stakes cow at the World's Fair.

Elsie's Brown Bessie Record: 16 lbs., 2 ozs. butter in 7 days.

Brown Elsie's Grand

ferences to a large number of tested cows in this pedigree. No cow is eligible to the tested list until she has produced at least 14 pounds of butter in seven days, or enough in one week to supply an ordinary person three months. The grandsire of Brown Elsie's Grandon, Diploma, is the sire of 54 cows with high records, and his ancestors trace to Eurotas, the cow that produced 778 pounds of butter in one year, or enough to feed one person fifteen years. or 15 persons one year. The cut of Brown Elsie with her record will be published in a subsequent issue.

The Continental Creamery Company, W. F. Jensen, vice president, Topeka, Kansas: I think you are doing some excellent work at your college. I will venture to say that no other dairy school or experiment station in the United States is to-day securing the practical results that you are, and that is considwelfare of the State.

The Basehor Creamery, F. H. Meyer, proprietor, Basehor, Kansas: I will be glad at any time to cooperate with the college in the cause of dairying and especially the dairy school. I have found

It will be noticed that there are re-

D. H. O.

#### Creamerymen's Opinions of the Kansas Dairy School.

Forest Park Creamery, Ottawa, Kan-We know something of the benefits to be derived from a dairy course, having a few men in our employ who have taken it, and we are also acquainted with several boys on the farm who have taken the special course, and it only requires a few minutes conversation with such boys to convince one of what the school has done for them along the line of dairying, about which a large majority of farmers are com-paratively ignorant, especially in regard best results.

to care, breeding, and feeding to obtain

ered to be a fact all over the United States. Your dairy school is the largest factor to-day in this State in developing interest and knowledge in dairy matters so necessary for the dairy interests of the State. If you enlarge further and make your dairy school an all year institution, the results will be inestimable in its good influence for the

that wherever I have been, that students of dairy schools have the preference and always command a salary over those who have only experience, be-

the subject.

Harper Creamery Company, Harper, Kansas: We take pleasure in saying that we are in hearty sympathy with all of the work done at the Kansas college, and consider it one of the most requeble institutions in the State.

The Clyde Creamery, Clyde, Kansas: We consider the short dairy course of inestimable value to any of our young

Sire of twenty-five tested daughters.

Frankte's Lass 24900.
Record: 17 lbs., 3½
ozs. butter in 7 days.
Dam of three tested
daughters.

Combination 4389. Sire of twenty-five tested daughters.

Mercurina 64920...... Record: 17 lbs., 10½ ozs. butter in 7 days. Dam of three tested daughters. Modita 16626.

Record: 16 lbs., 8 ozs. butter in 7 days.

Dam of six tested daughters.

Combination 3d 17576 Sire of ten tested daughters.

Combination 3d 17576 Sire of ten tested daughters.

Brown Flora 2d 96504.
Record: 20 lbs. 5
ozs. butter in 7 days.
Dam of three tested
daughters.

Brown Elsie 96595.... Record: 21 lbs., 12 ozs. butter in 7 days. Dam of two tested

men who expect to engage in any branch of dairying. The Hesston Creamery Company, Newton, Kansas: We have nothing but kind words for the Kansas State Dairy School, and will be glad to do anything that may further its interests.

Pleasanton Creamery, Pleasanton, Kansas: We will gladly do anything we can to help the dairy school, as we think it is just what the great State of Kansas needs.

Mayetta Creamery, Mayetta, Kansas: We regard the dairy school of great importance to all classes that handle cows, either for the creamery or private dairy-

Cimarron Cheese Factory, Cimarron, Kansas: I think it very necessary for dairymen to have the knowledge you are trying to disseminate, and I want to send my son there to take the course this winter. Consider this an application and give him a place.

The Nortonville Cheese Manufactur-

ing Company, Nortonville, Kansas: We are glad of a chance to help advertise your short course, or any other depart ment of our Kansas State Agricultural College. The people of the State do not appreciate the work that is being done for them at the agricultural college.

Girard Creamery and Cold Storage Company, Girard, Kansas: We think the dairy school very valuable to the We will do all we can in helping it along. Any time we can be of any service to you, let us know. Alspaugh Bros., Floral, Kansas:

think the dairy school a grand thing for patrons as well as creamerymen, and only wish more would attend.

The Belle Springs Creamery Company, Abilene, Kansas: We have been watching with interest the results of the experiments which have been con-

ducted during the last several years at the agricultural college. The results of the experiments you have made there during this period along the line of farm work, and especially dairy work, we deem invaluable to people interested in farming and dairying. We believe that to anyone who can possibly do so, that the time and cost, which we understand is very small, spent in attending the farm and dairy courses which you have there is time and money well spent.

Cedar Vale Creamery and Power Com-pany, M. O. Aws, lessee, Cedar Vale, Kansas: I am well aware of the fact that if any of our young men could be induced to attend the short dairy course it would be a stimulant to the dairy business and beneficial to the farmers, and indirectly the creameries. By giving more attention to feeding and breed-ing dairy animals I think the dairy school will accomplish what it is supposed to do—the making of practical dairymen. I have attended 2 terms of dairy school myself, and will make it 3

I ever have another opportunity. From the character of the bulletins is-The Fulton Creamery Company, Ful-sued by the Kansas State Agricultural if I ever have another opportunity.

# uggling of Separator Facts **BUFFALO EXPOSITION**

One of our desperate would-be competitors persists in its unscrupulous juggling of Separator facts and records at the Buffalo Exposition. One lie or misrepresentation stamped out it bobs up the next week with another. But everything must come to an end, and as a correspondent pertinently writes us "long after both these second-rate imitating machines and their projectors are turned into poor fertilizer the De Laval will continue—as in the past—to demonstrate its all-round superiority to anything else ever made in the shape of a cream separator.

The De Laval Cream Separators having been awarded the Gold Medal at Buffalo and the concern in question a gold medal on its combined exhibit of churns, separators and Babcock testers, it at once brazenly advertises having received "the Gold Medal and Highest Award" on its "separators," without qualification, in the hope to thus influence some possible separator buyer.

Next it proceeds to put out what purports to be a skimmilk record of the work done by the "U.S." machines in the Model Dairy at Buffalo. As a matter of fact this is not a record of the full run of the machines but simply of a selected part of it. Much of the "U. S." work during the first month of their run would not compare favorably with ordinary gravity setting. It was so bad that one machine was thrown out altogether. Their average for the full time shows a skim-milk loss of nearly three times the published figures.

Even then these so-called "skim-milk" records were but mere jugglery and show absolutely nothing as to the practical work of the machines. These "records" were achieved only through excessive speed, excessive power, cutting down capacity and running so thin a cream that more fat was lost in churning than saved in separating. The following voluntary statement from the engineer of the Model Dairy tells its own story in this regard:

BUFFALO, N. Y., November 2, 1901.

THE DE LAVAL SEPARATOR Co., 74 Cortlandt St., New York, N. Y.

Gentlemen: - As engineer of the Model Dairy at the Pan-American Exposition, Buffalo, I was impressed with the following points of merit in the running of your Cream Separator. It did its work very smoothly and quietly, showing by its running its mechanical excellence. I could run it with a much smaller consumption of fuel and lower steam pressure. In fact, it took but one-fourth as much steam to do our work with it as the "United States" separator used to do the same work, and at no time did I have to force my fire or boiler to keep up the supply of steam as I did when the latter machine was in use.

We were sorry to see the De Laval leave on June 28 and glad to see it returned on August 9th, as it made less labor for all. Your representatives let the regular dairy force handle it, when your competitor, the "United States," had an expert to run their machine during the greater part of the time of their run, and even then he could not make a record for close skimming except by running his machine at an excessive speed of 11,000 to 12,000 revolutions a minute, cutting down the capacity, and making a thin cream. One morning in particular the cream was so thin that I had to run the churn two hours and twenty minutes before the churning was done.

While I am not an expert in creamery work, I hold a first class engineer's license and I want to say that your separator from a mechanical standpoint, in the design and finish of the parts and in the economy of fuel and labor, easily ranks first, and I do not wonder that your competitors would rather not place their machines alongside yours.

Yours very truly, JAMES F. DOWNY, Engineer Model Dairy. The published records of the De Laval machine in the Model Dairy at Buffalo were made under practical use conditions, such as may be duplicated by any De Laval machine in every-day use, and the machine was run by ition employes themselves and not by a manipulating expert

### juggling for "skim-milk" records. THE DE LAVAL SEPARATOR CO.

RANDOLPH & CANAL STS., CHICAGO. 1102 ARCH STREET,

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74 CORTLANDT STREET, **NEW YORK.** 

327 COMMISSIONERS STREET, MONTREAL.

75 & 77 YORK STREET. TORONTO.

MCDERMOT AVENUE. WINNIPEG.

ton. Kansas: We believe that you are taking the right course, and that your dairy school should be attended by the young farmers generally. Such instruction as you suggest would be of inestimable benefit to them and would make dairy work not only pleasant but profitable, and assist materially in building up the creamery interests of the State.

College, we are free to say that the young men of the country need seek no further in order to get the best results, for the time spent in securing instruction, in this most profitable feature of farm and dairy work. Brady-Meriden Creamery Company,

To make cows pay, use Sharples Cream Separators. Book "Business Dairying" and Catalogue 287 ree. West Chester, Pa.



Kansas City, Mo.: We have noted with much interest, the success of the dairy much interest, the success of the dairy department at Manhattan. We feel that it presents an opportunity to the farmers of the State of Kansas to inform themselves as to how to make dairying more profitable, that should not be overlooked by ony one who has any interest whatever in the dairy business. The money spent by the State in ness. The money spent by the State in making scientific experiments in feeding and breeding has enabled the department to accumulate a great deal of valuable information, and those desiring to succeed should keep in close touch with this department.

#### A Talk on Washing Milk Cans. E. H. WEBSTER.

This is a homely subject, and at first glance some will say, "Anybody can wash a milk can and get it clean, too."

wash a milk can and get it clean, too.

Let us consider together for a moment the meaning of the word "clean."

If we turn back to our old copy of Harvey or Read and Kellogg we will learn that "clean" does not admit of comparison—in other words, when a thing is clean it can not be any cleaner.

While this is true, we use the word While this is true, we use the word in a hundred ways every day, and at-tach to it only a relative meaning. Thus we say, the barn is clean, the field is clean, the dishes are clean, and never think of them being in the same absolute state of cleanliness. When the lute state of cleanliness. barn is clean, we mean simply that all objectionable and misplaced matter has been removed and everything in proper order—there may be some dust and cobwebs on the ceiling, and in all probability we are still careful if we go in to harness up with our Sunday clothes on, narness up with our sunday clothes on, for fear of getting them dirty; still we maintain that the barn is clean, and for all practical purposes for which it is used it is the acme of cleanliness. We go through our fields and destroy all woods and say the field is clean and weeds and say the field is clean, and yet the very soil the field is composed of would be dirt if mixed with our dinner, and we wash our hands to remove the soil from them. The housekeeper washes the dinner dishes and puts them in the cupboard shining and clean, ready for the next meal. But should a surgeon require a knife or a spoon to aid him in some surgical operation that spoon or knife must be treated with some antiseptic to clean it for the op-eration. These illustrations simply show the relative meaning of the word clean, and those things clean for one purpose are not clean for other purposes.

Our knowledge of what constitutes cleanliness in all these lines also gives to the word different shades of meaning. For instance, what is clean to one person may not be clean to another, even though it is to be used for the same purpose.

This leads us to the subject of dirty milk cans and how to clean them. Next week we will try to determine

what constitutes a dirty milk can. Per-haps some of you who read this know and the chances are that some do not It may be that during the week you will have a can of sour milk returned from your station, and you will have some experience in the matter.

#### Notes from the College Dairy.

F. E. UHL.

The creamery made a shipment of butter to Houston, Texas, Saturday, and will fill an order from Colorado Springs this week.

A trial is being made of A. Jensen's cream pasteurizer, cream cooler, and milk heater.

Several apprentices are now at work

in the creamery.

Our young heifers and dry cows which were on prairie grass pasture during the summer are now on pasture of prairie, orchard, and blue-grass.

The pure blood dairy herd are pas-

tured on a small lot of orchard grass part of each day, while the scrub herd get rape pasture. This pasturage does not form a large part of the ration, but sufficient to furnish succulence.

Rape has proved to be an excellent forage plant at the college the past year. It furnished green feed for the hogs during summer, but being in a small lot it did not last very long after rapid growth stopped. A field from which a crop of Canada peas and oat hay had been harvested, was sown to rape July 30. During October and November it has been successfully pastured by the scrub herd. We started them on the pasture gradually to prevent any possible danger. The milk has been tainted some, but not enough to be very noticeable.

The 20 calves used in the Kaffir-corn experiment during the summer and early fall will be sold at the Manhattan stock yards in their next monthy sale. Ground Kaffir-corn gave better results

than that fed whole in this experiment. However, it did not prove as palatable a feed as shelled corn. The calves would not eat much of it, and hence did not gain so well as those fed shelled corn during the preceding experiment.

### The Apiary.

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

#### Moth Worms.

I have lost 2 of my best swarms of bees this fall by moths. Is there any way to prevent moths getting into the hives? I believe that by making a small entrance to the hive under the boxes so the moths will not be apt to find it, may prevent their getting in. What is the best work on bees, and where can I find it?

Lewis, Iowa. It has been quite a long time since the moth subject has been discussed as to their damage to bees in hives. Years ago this seemed to be the greatest trou-ble we had to contend with, and large numbers of whole colonies would be destroyed by moths. All kinds of moth catching traps were invented, and most of them patented, and a hive without a patented moth trap was unheard of among the up-to-date beekeepers of that All this has now dropped entirely day. All this has now dropped entirely out of existence, and as to moths damaging bees and taking possession of the aging bees and taking possession of the hives and combs occupied by bees, it is now unheard of, except in rare cases like the above. Why is it so? It is a fact that it was soon discovered after the introduction of the Italian bees in this country, that they were moth proof, and that they required no assistance in the proof of the introduction of the interest the moths from the hives. In keeping the moths from the hives. In this respect they were quite different from the old native black bees, that in many cases would allow themselves to be overpowered by moth worms, and driven entirely from their hives. Since almost every one now has Italian bees, we scarcely hear of troubles like the above, and when one makes such inquiry, the answer is always given to get Italian bees. This cure has worked so completely, that only once in a great completely, that only once in a great while we hear of loss of bees by moths. We still have moths, and moth worms, and they frequently do considerable damage, but only to empty combs that have not the protection of bees upon them, but the weakest of colonies of Italian bees will keep the moths from the bives. So the appayor will be to the hives. So the answer will be to get Italian bees, or get Italian queens and introduce them to the hives of na-

#### Three Hundred and Sixteen Pounds of Honey From Six Colonies.

I herewith give you my report on bees for the present season. I started in spring with 6 stands, and increased but From these I extracted 316 pounds during the season. I give plenty of room with empty frames of comb set on top with queen excluder between upper and lower stories. I give large entrance to hives by raising them up from bottom board and slipping in blocks under corners of hive. J. E. KEETON. Wakarusa, Kans.

Three hundred and sixteen pounds of honey from 6 colonies at 10 cents per pound would be \$31.60, a little over \$5 per colony. For a season of drouth this is not bad, and shows what can be done under unfavorable circumstances when you go about it in a proper manner. By the use of the extractor the amount has undoubtedly been made double what it would have been if the bees had been worked for comb honey, but the comb honey would have sold for about double the price of the extracted, and so brought the same money when marketed. Fifty pounds of surplus honey from a colony is no uncommon thing even in a poor year, but 200 or 300 is still better and frequently obtained in good seasons. It pays to keep a few hives of bees on the farm, or on a town lot, and even on the roof of the house, if you have no other place for them.

#### Bees From a Tree.

We had a tree on our farm that bees had worked in for four years. We cut the tree down the first day of October and secured about 25 pounds of honey after being strained out. We took a box like a hive and got the bees into it, and they went to work nicely and seemed to do well until the late cold weather. I found among them what I supposed to be the queen, a bee much larger than the others. Is there any way I can keep these bees over the winter until spring

Wakarusa, Kans. A. C. CLIFFORD.

There is but one way you can winter those bees, and that is, to furnish them

S UNQUESTIONABLE PROOF OF THE **EVERY-DAY SUPERIORITY OF** THE IMPROVED U. S. SEPARATOR "The kind that gets all the cream" Prof. W. J. Spillman, of the Washington State Experiment Station at Pullman, in an article in the Ranch and Range, Seattle, Wash., of August 15, 1901, gives the record of the testing of five samples of milk from dairymen using U. S. Cream Separators. The five tests were as follows: • .00, .00, .01, .01, .04 An average of ,012 of one per cent. Please notice that in two of the samples the professor could find no fat, and in the poorest one only .04. (Probably this dairy-man did not run his separator according to the directions.) These records show that the U. S. Separator is without a peer in thoroughness of separation. Highest Award at the Pan-American Exposition Write for descriptive catalogues giving full information. VERMONT FARM MACHINE CO., Bellows Falls, Vt.



### How About Your Heart

Feel your pulse a few minutes. Is it regular? Are you short of breath, after slight exertion as going up stairs, sweeping, walking, etc? Do you have pain in left breast, side or between shoulder blades, choking sensations, fainting or smothering spells, inability to lie on left side? If you have any of these symptoms you certainly have a weak heart, and should immediately take

### Dr. Heart Cure

Mr. F. H. Oaks of Jamestown, N. Y., whose genial face appears above, says: "Excessive use of tobacco seriously affected my heart. I suffered severe pains about the heart, and in the left shoulder and side; while the palpitation would awaken me from my sleep. I began taking Dr. Miles' Heart Cure and soon found permanent relief."

Sold by all Druggists, Dr. Miles Medical Co., Elkhart, Ind.

with a full set of combs and honey, just as a good hive should have at this season of year. The colony must also be strong to winter even then. If there is but a small amount of bees, say less than 2 quarts, they stand a slim chance to winter even if the combs of honey be given them. I should judge that they are already starving, unless you have been feeding them. It is now too late to feed them sirup of any kind, or to try to take them over on candy alone, so the combs of honey is the only resort.

#### A Few More Books.

We still have a few more books on bees for reports sent in from beekeepers. These books are free, but do not forget the postage on them, which is 6

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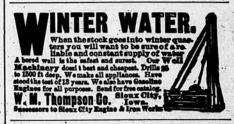
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#### MARKET REPORTS.

Kansas City, Dec. 2.—Cattle—Receipts, 3,661; calves, 266. The market was steady to 10 cents lower. Representative sales: SHIPPING AND DRESSED BEEF STEERS.

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No.	Ave.	Price.	No.	Ave.	Price. \$5.70
23		\$5,95 5,70	61 "J.A	1413	5.75
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| No. Av. Price | No. Av. Pric

#### Chicago Live Stock.

Chicago, Dec. 2.—Cattle—Receipts, 20,-000. Good to prime steers, \$6.40@7.25; stock-ers and feeders, \$2.00@4.25; Texas fed steers, \$4.75.

Hogs—Receipts, 60,000. Mixed and butchers, \$5.70@6.10; bulk of sales, \$5.65@

Sheep—Receipts, 32,000. Good to choice wethers, \$3.50@4.10; western lambs, \$3.50@

#### St. Louis Live Stock.

St. Louis, Dec. 2.—Cattle—Receipts, 2,-300. Native steers, \$3.50@6.25; stockers and feeders, \$2.40@3.60. Hogs—Receipts, 6,500. Pigs and lights, \$5.60@5.70; butchers, \$5.75@6.20. Sheep—Receipts, 1,500. Native muttons, \$2.75@3.60; lambs, \$3.75@4.80.

#### Omaha Live Stock

Omaha, Dec. 2.—Cattle—Receipts, 2,600.
Native beef steers, \$3.75@6.75; western steers, \$3.75@5.30; Texas steers, \$3.50@4.40; steckers and feeders, \$2.75@4.40.
Hogs—Receipts, 9,200. Heavy, \$5.90@6.05; bulk of sales, \$5.90@6.00.
Sheep—Receipts, 28,600. Common and stock sheep, \$2.60@3.25; lambs, \$4.25@4.75.

#### Kansas City Grain.

Kansas City Grain.

Kansas City, Dec. 2.—Wheat—Sales by sample on track:

Hard—No. 2, 72@72½c; No. 3, 70@72c.

Soft—No. 2, 76c; No. 3, 74@75c.

Mixed Corn—No. 2, 66½c; No. 3, 65½@66c.

White Corn—No. 2, 66½c; No. 3, 66c.

Mixed Oats—No. 2, 47½@48c; No. 3, 47c.

White Oats—No. 2, 47½@48c; No. 3, 47c.

Rye—No. 2, nominally 63½c.

Prairie Hay—\$5.00@13.50; timothy, \$9.00@

14.00; clover, \$9.50@12.00; alfalfa, \$10.50@

12.00; straw, \$5.00@5.25.

Cotton Seed Meal—\$25.00 ton in car lots.

Linseed meal, \$29 per ton.

#### Chicago Cash Grain.

Chicago, Dec. 2.—Wheat—No. 2 red, 77@
78c; No. 3, 74@78c; No. 2 hard winter,
74@76c; No. 3, 73¼@74½c; No. 1 northern
spring, 75@76c; No. 2, 73½@74½c; No. 3,
69½@73½c. Corn—No. 2, 63½c; No. 3, 61½@
62c. Oats—No. 2, 43½@44c; No. 3, 43½c.
Futures: Wheat—December, 74@74½c;
January, 74½c; May, 74½@74½c: Corn—
December, 62½c; January, 62½c; May,
64%c. Oats—December, 42½c; May, 43½d

Oats-December, 421/4c; May, 431/4@

#### St. Louis Cash Grain.

St. Louis, Dec. 2.—Wheat—No. 2 red cash, elevator, 80%c; track, 81c; No. 2 hard, 76c. Corn—No. 2 cash, 64%c; track, 66c. Oats—No. 2 cash, 45%c; track, 46%c; No. 2 white, 47@471/2c.

#### Kansas City Produce.

Kansas City, Dec. 2.-Eggs-Fresh, 21c

Butter—Creamery, extra fancy, separator, 22c; firsts, 18c; dairy, fancy, 17c; packing stock, 13c; cheese, northern full cream, 10c; Missouri and Kansas full cream, 10c.

cream, 10c.

Poultry—Hens, live, 5c; roosters, 20c each: springs, 6c lb.; ducks, young, 5½c; geese, 4½c; turkey hens, 6c; young, weighing over 7 lbs., 6c; young gobblers, 5c; pigeons, 50c doz.; squabs. \$1.2508.00 doz. Choice scalded dressed peultry is above these prices.

Game—Rabbits, drawn, 300 per des.; squirrels, 300; frogs, 50c@43.00 per desen; plover, 75c@41.00 per dos.; fack snipe, 76c@11.00 per dos.; sand snipe, 20040e per des.; ducks, mallard, per desen, fix sed head,

\$3; canvas back, \$2; teal, \$2; mixed, \$1.60.
Potatoes—\$1.10@1.20 per bushel in small lots; car lots, \$1.04; sweets, \$3.25@3.50 per

Fruit—Apples, \$1.00@5.00 per barrel; cranberries, \$7.00@7.50 per barrel; Califor-

rannerries, \$1.000/100 per box.

Vegetables—Navy beans, \$2.20 bu.; cabbage, \$1.00@1.75 per cwt. Onions, 90c@\$1.16 bushel in job lots; beets, 40@60c bu.; turnips, 15@25c bushel.

### Special Mant Column.

"Wanted," "For Sale,', "For Exchange," and small or special advertisements for short time will be inserted in this column, without display, for 10 cents per line, of seven words or less, per week. Initials or a number counted as one word. Cash with the order. It will pay. Try it!

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

#### CATTLE.

WANTED—Your best cash price and full description (with registered numbers) on 52-year-old Hereford buils Give exact location of farm, county, railroad, and your distance and direction from town. Address Henry Krider, Manager, Camchester, Harper Co., Kans.

FOR SALE—One dark red, registered Shorthorn bull; a sure breeder. Brookover Bros., Eureka, Kans.

FOR SALE—Hereford cattle—wholesale and retail, 175 in herd; and Cotswold sheep—5 rams and 25 ewes. Railway station, East Fairmont, on Santa Fe R. R.; Postoffice, Wallula, Kans. H. A. Naber.

FOR SALE—3 pure Cruickshank-Shorthorn bulls. H. W. McAfee, Topeka Kans.

SHORTHORN CATTLE SALE—I will offer at public sale, 1½ miles south of Marysville, at 2 o'clock p. m., on Tuesday, October 15, 17 registered Shorthorns, 19 high grade Shorthorns, and 3 thoroughbred Jerseys. Lewis Scott, Marysville, Kans.

#### HORSES AND MULES.

160-ACRE IMPROVED FARM—Sixty acres in growing wheat; for sale on easy terms. Address F. D. Nichols & Son, Norfolk, Kans.

FOR SALE—The Percheron stallion, Brilliant Junior 24588; 7 years old, weight 1,850 pounds, color black. Also two Mammoth jacks, 4 and 6 years old, color black. Will sell cheap, or trade for good land. John Stewart, Elmdale, Kans.

FOR SALE—One Percheron stallion, 2 years old; also one Mammoth Black Jack, 4 years old, 15½ hands high, good sire. Address S. C. Hedrick, Tecumseh, Kas

FOR SALE—At a bargain—young draft stallions A. I. Hakes, Eskridge, Kans.

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

#### FARMS AND RANCHES.

FOR SALE—Eighty-acre improved farm, 14 miles from Topeka. For full particulars, address Lou R. Dearborn, Silver Lake, Kans.

FOR SALE—Thirty-five acres of land, three miles north of Soldier Creek on Central Avenue. \$1,600. In cultivation. No buildings. Address 1105 Harrison Street, Topoka, Kans.

FOR SALE OR TRADE—160-acre improved farm in central Kansas. A bargain. For full particulars address Jno. Fox Jr. New Cambria Kans

FARM LOANS—Low rate, best terms, 5 to 10 years with privilege to pay in full or in partial payments before due. Loans can be closed at once. Call on or write The Kansas Mutual Life Insurance Co., 701 Jackson Street, Topeka, Kans.

160 ACRES of land for sale cheap, in the mineral and fruit belt of Missouri. No incumbrance, title perfect, 50 acres in cultivation, two-room log house with shed porch, good well in yard, cellar, smokehouse, barn, corn crib, garden, 8 miles from railroad point, 1½ miles from postoffice, 1½ miles from school, 8 miles church. Price \$1,200. Address R. L. Olive, Hume, Mo.

#### POULTRY.

FOR SALE—White Holland turkeys. Egg orders socked. Annie D. Galbraith, White City, Kans.

ROSE-COMB WHITE LEGHORN COCKERELS-50 cents. Mrs. John Hill, Vinland, Kans.

FOR SALE—Black U. S. Poland-China herd boar, Potter U. S. 17001 A.—a sure breeder of good litters. Also 10 young boars. Leon Calhoun, Potter, Atchison Co., Kans., Rural Route No. 1.

PIGS RIGHT-Prices right. Duroc-Jerseys and Poland-Chinas, all sizes. Write D. Trott, Abilene, Ks.

PEDIGREED POLAND-CHINAS—\$5 each; registered Shorthorns cheap. Send for my Pig Booklet, FREE. M. C. Hemenway, Hope, Kans.

TEN FANCY BOAR PIGS—By M. B. P. out of prize-winning dams, for sale at one-half price, to make room for fall pigs. Jos. R. Young, Richards, Mo.

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#### MISCELLANEOUS.

WANTED—Men and women canvassers, to sell our choice rosated pound package coffee, exclusively or as a side line. Big money for good canvassers. Don't miss this chance. Address Thos. M. McBee & Co., Mansfield, Ohio.

WANTED—Cane and Kaffir-corn seed in car lots Mail samples and quote price. McBeth & Kinnison, Garden City, Kans.

WANTED—Two cars of good alfalfa hay. Give price on cars at your station. L. K. Haseltine, Dor-chester, Green County, Mo.

WANTED—If you wish to buy or sell corn, oats, hay, cane seed, kaffir-corn, corn chop, or anything in the feed line, correspond with us. Western Grain & Storage Co., Wichita, Kans.

HIGHEST PRICE paid for cane seed, alfalfa, millet, kaffir-corn, and pop corn. Please send samples. Kan-sas City Grain & Seed Co., Kansas City, Mo.

OYSTER SHELLS—Eighty cents per 100. Poultry and stock foods, and feed. Topeka Seed House, 806 Kansss Avenue, Topeka, Kans.

WANTED—Alfalfa hay. Send price and amount for sale. E. B. Davis, Columbus, Kans.

CHOICE ALFALFA SEED, price \$4.50 f. o. b. J. E. Good, Canada, Kansas.

AFFALFA SEED—None better than I have. Buy direct from a grower. Quantities to suit. Write for samples and prices. V. S. Jones, Syracuse, Kans. WANTED—Alfalfa, millet, cane seed. kaffir-corn, milo maize, and pop corn. If any to offer please correspond with us. Kansas Seed House. F. Barteldes & Co., Lawrence, Kans.

WOOL WANTED—We have just completed our New Woolen Mill in North Topeks and want at once 200,000 pounds of wool for which we will pay the market price. Write us if you have wool for sale. Western Woolen Mill Co., North Topeks, Kans.

BALMOLINE—Nature's Wonderful Healing Salve. Man or Beast. Druggists, 25 and 50 cents. Trial size 4 cents from B. H. De Huy, Ph. D., Abilene, Kans.

ALFALFA SEED—Crop of 1901, pure and fresh Write for prices. McBeth & Kinnison, Garden City, Kas

FOR SALE—Feed mills and scales. We have 2 No. 1 Blue Valley mills, one 600-pound platform scale, one family scale, and 15 Clover Leaf house scales, which we wish to close out cheap. Call on P. W. Griggs & Co., 208 West Sixth Street. Topeka, Kans.

#### PATENTS.

### UNITED STATES PATENTS

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at 10 cents each, and sends us the
\$1.20. No money required until
brooches are sold. We take back
all not sold. Address
HOWARD MFG. Co., 6 W ST., PROVIDENCE, R. I.

### The Stray List.

Week Ending November 21. Marion County-Ira S. Sterling, Clerk. STEER—Taken up by Wm. Meyer, in Lost Springs tp., one red Hereford steer, 3 years old, left ear off white face; valued at \$40.

For Week Ending November 28. Ford County-S. P. Reynolds, Clerk.

HORSE—Taken up by Lillard Sanders, of Dodge tp., November 21, 1901, one dark bay horse, 7 years old, small star in forehead, white spot on nose, left hind foot white; valued at \$25.

foot white; valued at \$25.

Coffey County—W. M. Palen, Clerk.

COW—Taken up by J. N. Gray, in Neosho tp., (P. O. Crandall), November 7, 1901, one black cow, about 7 years old, both ears cropped; valued at \$20.

Marion County—Ira S. Sterling, Clerk.

STEER—Taken up by W. H. Fitch, in Milton tp., one roan steer, 1 year old, swelled part in left ear; valued at \$16.

at \$16.

Montgomery County—D. S. James, Clerk.

HEIFER—Taken up by W. O. Evans, in Parker tp.,
(P. O. Coffeyville), one red heifer calf, 1 year old,
underbit under both ears; valued at \$15.

Also one red brindle heifer, blotched face, 1 year
old, underbit under both ears; valued at \$15.

Montgomery County—D. S. James, Clerk.

COW AND CALF—Taken up by W. F. Yager, in Caney tp., near Havana, November 21, 1901, one cow, white line on back, white to belly, figure 4 on right hip, letter S on left hip, crop off both ears, slit in left ear; valued at \$14. One white and yellow male calf, 6 months old; valued at \$3.

#### Week Ending December 5.

Atchison County-S. S. King, Clerk. COLTS—Taken up by Frank Hunn, in Arrington, Kans., one 2-year-old sorrel horse colt, blaze face, 4 white feet. Also one 1-year-old sorrel mare colt. Also one 1-year-old black horse colt.

Chautauqua County—C. C. Robinson, Clerk.
HEIFER—Taken up by E. E. Cornue, in Salt Creek
tp., (P. O. Colfax), November 15, 1901. one red heifer,
star in face, 1 year old; valued at \$12.

STEER-Taken up by same, one red steer, white face, 2 years old; valued at \$15.

STEER—Taken up by same, one red steer, diamond brand on left hip, 2 years old; valued at \$20. Morris County-A. W. Loomis, Clerk. HEIFER-Taken up by A. H. Johnson, in Grand View tp., (P. O. Herington), November 5, 1901, one small, red yearling heifer, a cut off under side of left ear; valued at \$10.

Cherokee County-S. W. Swinney, Clerk. HEIFER—Taken up by Sol. McNuity, in Sheridan tp., (P. O. West Mineral), November 22, 1901, one light red heifer, 1 year old, mark on right ear; valued at \$15.

Greenwood County. HEIFER—Taken up by A. J. Osborn, in Lane tp., one red heifer, white face, 1 year old, underbit in left

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Shire stallions, 2, 3, and 4 years old.
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### Brange Department.

"For the good of our order, our country and man kind."

Conducted by E. W. Westgate, Master Kansas State Grange, Manhattan, Kans., to whom all correspondence for this department should be addressed. News from Kansas Granges is especially solicited.

NATIONAL GRANGE.

KANSAS STATE GRANGE.

Master E. W. Westgate, Manhattan. Lecturer A. P. Reardon, McLouth. Secrtaery Geo. Black, Olathe.

### National Master Jones' Annual Address to the National Grange.

The afternoon session was held in City Hall, Lewiston, it being deemed inadvisable to meet in a smaller place for

so large a gathering.

The meeting was public and was devoted entirely to the annual report of the National Master Aaron Jones, of South Bend, Indiana.

Mr. Jones spoke in a clear voice and a forceful manner, and his address is considered by all one of the finest ever delivered before the National Grange.

We present the address in part as fol-

To the Officers and Members of the Na-

tional Grange: The thirty-fifth annual session of the National Grange is the most important meeting ever held by the Patrons of Husbandry. At no time in the history of our country have farmers needed the advantages of organization as at the present time. Farmers everywhere understand their necessity and are seeking information as to the best form of organization. There never has been a time in the history of argiculture when there was a greater need of discussion of all matters relating to the farm, the rela-tion of agriculture to other industries, and the effect of legislation in this and other countries. The prominence of reciprocity treaties, as well as recent events and pending treaties, make information of the world's markets a necessity. The grange affords the opportunity for the fullest discussion, expression, and far-reaching views on all these questions. The work done and the recommendation made at this session will be read by more people and will wield a greater influence than any meeting of farmers ever held. Members of the National Grange in your delegate capacity—representing sovereign States of this re public—you have a vast responsibility resting upon you. On the wisdom of your action the future destiny of the grange depends. Not only the order of Patrons of Husbandry, but the entire interest of our country will be greatly advanced by your wise and considerable action at this meeting.

#### CONDITION OF THE ORDER.

I am pleased to state the order is prospering. More new granges have been organized this year than in any other year for the past quarter of a century. The report of the State mascentury. The report of the State masters and of the worthy secretary, treasurer, and executive committee of the National Grange will reveal a most satisfactory condition. Harmony and good will prevail throughout our vast membership. Our members are enthusias-tic, hopeful, earnest, and determined in their efforts to make the grange still more helpful and better in all its work, to broaden its scope and extend its membership and influence.

#### THE ACHIEVEMENTS OF THE ORDER.

The history of the order is ripe with good work, well and successfully done. The battles it has fought and won, contending with lack of knowledge, lack of discipline, and little confidence in the staying qualities of farmers in an organized effort against corporate power, and prejudice, have demonstrated its demonstrate Our success along legislative power. Our success along legislative lines is gratifying to every patron. In the several States improved laws on the several States improved laws on taxation, education, pure food, produc-tion of dairy products, protection of stock from contagious diseases, good roads and protection to forests, and many other important matters have been secured. In national legislation been secured. In national legislation we have the Secretary of Agriculture; the Interstate Commission with its magnificent record; the Industrial Commission, whose findings on some of its more important work have not been made public; modifications of the Patent Laws; national and State experiment stations; and the establishment of free rural mail delivery. The modification and in some cases the abandonment of so-called reciprocity treaties, wherein agricultural interests were not sufficiently guarded and protected. The influence of the grange was an important factor preventing much legislation that

would have worked injury to agriculture and the country. Among some of the more important of these were so-called irrigation schemes and the ship subsidy bill. Along social and educa-tional lines, the inspiration of higher ambitions; the improvement of society; the elevation of citizenship; the bettering of the country homes, surround-ings and conditions, and the increased pleasures and happiness in rural homes, an achievement the value of which to the individual and the country can not be stated. These purer streams of cit-izenship flow out into the great ocean of society and tend to elevate and improve all mankind.

In addition to the educational, social cooperative, and legislative work, the grange must continue to hold its position as the best school where the most approved system of agriculture is taught in such a practical way, that farmers can not afford to lose the ad-vantage of membership. The commercial side of farming, or how to sell their products of the farm to realize the highest measure of profit, is equally im-portant with that of the production, a question that in the future, as in the past, will receive the most careful attention and thought of those members of the order. Production and sale are two inexhaustible subjects ever chang-ing as conditions, fertility, and develop-ment in this and other countries are constantly changing. The law of supply and demand lies at the foundation of the markets, when normal conditions prevail. The influence of the order will be exerted to have the natural law fix market values. The producer and con-sumer are equally interested in pre-venting the markets from falling into the hands of professional manipulators and combines. Farmers and the entire and combines. Farmers and the entire people are interested in the economical management of the farm. Some time ago a distinguished agriculturalist of England was traveling in this counof England was traveling in this country and his observations caused him to make this remark: "The wastes of the farmers of the United States, exceeded the net profits, and the people of France and Germany could live on the wastes of the American farms."

#### AGRICULTURAL COLLEGES.

European countries not only teach the science of agriculture in their public schools, but have established and liberally supported agricultural colleges, schools of horticulture, forestry, dairying, veterinary science, sheep, hus-bandry, and experimental farms; in short, schools to properly teach all that pertains to agriculture in their respective countries.

Senator Morrill, of Vermont, in 1862 drafted and presented to Congress an act donating a large amount of public lands for the establishment in the sevrands for the establishment in the several States and Territories of the United States of colleges for instruction in agriculture and the mechanic arts. The act set forth that, "the leading object should be to teach such branches of learning as are related to branches of learning as are related to agriculture and the mechanic arts in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life." Senator Morrill and others in their addresses in the Senate, while the measure was under consideration, pointed out the advantages that would come to agriculture and the country by the passage of the pending measure, and the establishment of the contemplated colleges. Agriculture was to become profitable, and farmers prosperous and happy as a result of teaching in these colleges those branches of learning re-lated to that important industry. Have those anticipations been fully realized? If not, why not? Have farmers done their full duty toward these colleges? Have the agricultural colleges done all they could and should have done to cultural colleges been in full sympathy with the spirit and purpose of the act donating the public lands for these schools? Have the presidents and professors been in all cases in full sym-

pathy with practical agriculture and in close touch with farmers? Many farmers feel that in these schools in many cases, an influence has been exerted on the minds of their children away from the farm rather than toward it. On this account many farmers who desire their children to follow farming do not send them to (the so-called) agricultural colleges. Whether this be true or not, the feeling exists, the damage is done, and our agricultural colleges and their influence is injured,

appropriations to aid these schools. desire to call attention to these schools and ask the order in the several States to investigate their agricultural colleges and their management, and see whether it is conducted along the lines contemplated by the act creating it, and to the best interest of agriculture in their respective States. If not, then insist and take such action as will cause such changes to be made as will make their agricultural school in practice as well as in name an agricultural college. Urge your legislature to make such appropriations as will provide for all the needs of the school in lands, buildings, and equipment as will make it a first-class agricultural col-lege. Insist that the Boards of Trustees shall be practical men, who have faith in agriculture, who will appoint a president and professors who are in full sympathy with agriculture, men who believe that farming is as honorable as any other business or profession, and by proper management can be made profitable; who will use all their influence in securing the teaching of scien-tific agriculture in our public schools, and assist in all honorable methods in advancing the agricultural interests. Anyone not willing to do that, in our opinion, should not occupy the position of trustee, president, or teacher in our agricultural colleges.

#### FIELD MEETING.

The field meetings held by the order throughout the country the past year have been an honor to the organization and have done the order and the country a vast amount of good. These meetings are the means of calling attention to the work of the order, the legislation, State and national, that should be secured to place agriculture on equal foot-ing with other industrial interests, and that will also be of benefit to our country. At these meetings these important questions can be discussed without partisan bias from the standpoint of citizenship. The complex and diversified industries in a great country like ours, having seemingly interests in conflict with each other when properly understood are so blended that the interdependent relation of one to the other in pendent relation of one to the other is so complete that any laws that discriminate to advance the one at the expense of another eventually injure all: Our country, our people, all occupations, and all sections are interested in securing and enforcing laws that foster and equally protect every industry, labor, and capital, alike. These meetings should be continued and arrangements made early in the coming winter for the meetings in the summer. The beneficial effect of the meetings can be augmented by securing the attendance of all whom it is especially desirable to reach.

#### DEATH OF PRESIDENT M'KINLEY.

When the sad and startling news of the assassination of President McKinley flashed over the country patriotic men of all sections and parties were drawn close together and moved to tears. Par-tisan strife was hushed and still. The assassin had tried to shoot down liberty, to overturn our glorious free institutions by striking down its representative, Wm. McKinley, a true, patriotic man, loyal to country, an honest man, a good, kind-hearted citizen, a devoted model husband, is dead, but our glorious country and its institutions still live. Anarchy, with hand red with human blood, with all its baleful influence, must be blotted out. The influence of our order will ever stand for destroying anarchy and all the causes that tend to produce it.

#### THE PRESS.

The grange press has rendered valuable aid and each year demonstrates its increasing importance to the welfare of the order. I am pleased to be able to say, as I read these papers, that all of members should recognize the importance of cooperating with our friends and not only write for but subscribe to and read carefully. No matter how many other papers you take, subscribe for at least one grange paper. The agricultural and local press have each been friendly to our principles and done much to advance our cause. They publish good reports of public meetings and have published the addresses of the legislative committee to State legislatures and to Congress. The work of the order and the necessity of appropriate legislature islation on the various important mat ters are thus brought to the attention of millions of people that would be reached in no other way, thus educating and the farmers have lost the golden opportunity of securing to agriculture the advantages contemplated by the wise statesmen, who enacted the law in 1862. Most of the legislatures in the several States have been liberal in their



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ers as a rule do not take and read enough papers, for the investment in good papers always pays. The press is the great educator of public sentiment and farmers should be in close touch with it. In an address of this kind it would be eminently improper to name any of the publications owned and published any of the publications owned and published as private enterprise, that have done such valuable service to our order, unless all were mentioned. This objection does not lie against the Quarterly Bulletin published by the order of the executive committee of the National Grange (not for financial gain) tional Grange (not for financial gain) and one copy sent to each grange in the United States, gratitously and published solely for the good of the order. This Bulletin has been wisely and ably edited by the worthy lecturer of the National Grange. Its influence in building up the order is of incalculable value. It has been kept free from partisan, sectional or sectarian bias, and it is recognized and taken as authority on all matters of which it treats.

#### LEGISLATION.

I again call attention to the legisla-tion demanded by the agricultural in-terests of the country, considered, ap-proved, and urged at the thirty-third and thirty-fourth sessions of the National Grange. For the arguments in support of the legislation demanded, I respectfully refer to the journal of proceedings of the thirty-third and thirty-fourth annual sessions and the action of the various committees and the addresses of the legislative committee to the Congress of the United States.

(1) Free delivery of mails in the ru-ral districts, and that the service be

placed on the same permanent footing as the delivery of mail in the cities, and the appropriations be commensurate with the demands and the benefits of

the service.
(2) Provide for postal savings banks. (3) Submit an amendment to the Constitution providing for the election of United States Senators by direct vote

of the people.

(4) Submit an amendment to the Constitution granting the power to Congress to regulate and control all cor-porations and combinations preventing monopoly, and the use of their corporate power to restrain trade or arbitrarily establish prices.

(5) Enlarge the powers and duties of the Interstate Commerce Commission as provided in Senate Bill No. 1439.

Regulate the use of shoddy (7) Enact pure food laws. (8) Provide for the extention of the markets for farm products equally with manufactured articles.

(9) The enactment of the anti-trust law, clearly defining what acts on the part of any corporation would be detri-

mental to public welfare.

(10) Speedy constructions of the Nicaragua Canal by the United States.
(11) The speedy construction of a ship canal connecting the Mississippi River with the Great Lakes and the Great Lakes with the Atlantic Ocean. (12) Revising the fees and salaries

of all federal officers, and placing them on a basis of similar service in private business

(13) Protect the dairy interests by the passage of House Bill No. 3717. I again recommend to the several State Granges that they continue to urge upon the respective State legislatures the enactment of appropriate legislation on the following important mat-

(1) Anti-trust law and provision for State inspection of all corporations. (2) Secure law on taxation that will

compel all property to bear its just proportion of taxation.

(3) Pure food law.(4) Provide State Railway Commission with full power of fixing maximum rate of freight and passenger service on all railways subject to their jurisdiction.

Such a revision of the fees and salaries as will place them on an equitable basis.

Farmers should press their claims from year to year until the legislation sought is secured, and hold their representatives in State legislatures and in Congress officially and personally responsible for their action on all measures affecting agricultural interests. The road to success in legislative matters as in all other matters is found only in remaining courteous, persistent, and firm and unyielding in demands, and emphasizing them with all the power we possess as citizens.

#### RURAL MAIL DELIVERY.

We are pleased to note the increasing popularity of this branch of the mail service. Our efforts as the repre-sentatives of the agricultural classes should be for its continued extension until every farm-house will be enjoying the benefits of this service. Through the courtesy of the Post Master General Smith I am able to inform you that the estimates for rural delivery for the year ending June 30, 1903, is \$6,250,000. This large increase is evidence of the increasing popularity and demand for this service.

On account of the vast interests involved I desire to say that the forma-tion of trusts along the lines which have been adopted is a menace to republican institutions and is leading to a complete change of our government. Such an unjust distribution of wealth, obtained by such methods creates discontent, destroying energy among the people and places a dangerous power in the hands of a few. To such a degree has commercialism developed that individual rights and interests are ignored in the greed and unscrupulous methods adopted by these vast aggregations of capital. When the love of gain dominates the minds of men to such a degree that the benefits of labor and the use and value of property is taken from the poor, the middle classes, and appro-priated to the few, without rendering value received, whether done under the form of laws or any other method, has a tendency to make men desperate. When a man's reputation, standing, and manhood are measured by the dollars he represents or controls, no matter how acquired, whether the result of years of business energy, industry, and the practice of economy, or the result of a modern trust, methods of crushing opposition and practicing extortion; when the spirit of commercialism reaches this condition, which it is fast approaching, our republican form of government is in great danger. Again reiterate that State and national legislation of the most drastic character should be enacted and vigorously enforced. Amend the Constitution of the United States, giving Congress full power to modify or change our entire tariff system if need be and place on the free list every commodity now controlled by trust combinations and compel all trans-portation companies to give the same rate of freight to all persons and corporations. Some great disaster might destroy our prosperity, burn our cities, tear up our great system of transportation, sink our ships on our inland seas and ocean traffic. This indeed would be a great disaster, but leave our greathearted people, full of energy and entererty, justice, and equity and they would repair the damanges and on the ruins of the old, a new nation would arise with grander proportions, but destroy the love of justice, equity, and liberty of the people by the inordinate love of gain as practiced by the soulless trusts that are now being organized and our nation is blotted out and on its ruins will be established the worst form of oligarchy with all its attendant evils.

#### SHIP SUBSIDY

The question of subsidizing our merchant marine has been before the National Grange at the two former sessions and fully considered, and the National Grange has expressed itself as emphatically opposed to all schemes of this character. The ship subsidy pill has failed at the two former sessions of Congress. The friends of the measure, price of liberty and we trust every memhowever, have recently held a meeting ber of our order, every farmer in Amerand a bill was prepared differing in ica will at once let their members of

some minor matters from the former measure before Congress. The bill as now formulated will be presented to the 57th Congress and vigorously pushed. Several members of the Senate who previously opposed the bill are not now members of the Senate. We understand that the bill will receive the support of some of the most influential members of the Senate and the House. The legislative committee of the National Grange in its address to Congress September 28, 1901, said:

"The principle involved in the ship subsidy bill before the last Congress has the unanimous opposition of the farmers of the country as expressed by the National Grange and by the masters of every State Grange in the land. We are in favor of the development of the American merchant marine and of manufacturing as we are in favor of the de-velopment of American agriculture, but no more in favor of contributing to a few wealthy ship-builders than we are of contributing to farmers or manufac-turers. We have reasons founded on sound principles of statesmanship to oppose a scheme that contributes to the profits of the few at the expense of the many without adequate return. The toiling farmers of the land have developed American agriculture until its products constitute a majority of the exports of the country without government aid, and we understand that American steamships are already yielding their owners profits in transporting these and other products in all parts of the world without government subsidies. The farmers of the country ask for no special favors in legislation and oppose in the most vigorous manner such special favors to ship-builders and owners as are embodied in what is familiarly known as the ship subsidy bill."

On account of the importance of this matter and the vast interest involved, the large aggragation of capital interested in and behind this measure, I desire to say in addition to what the committee has said: This is not the time, if ever there was a time to engage in subsidizing. France pays out annually \$1,160,000 on ship construction and \$2,400,000 on navigation, these vast sums being given to subsidize the merchant marine and yet the merchant marine of France is on the decline. Favorable conditions as now obtained in the United States are far more potent in build-ing up a great merchant marine than subsidies. The development of com-merce has become so vast that it has become sufficient stimulus to capital to extend as rapidly as necessity requires. There is nothing in the argument that there is not incentive enough in modern commerce to cause capital to enlarge facilities for carrying our freight to foreign nations. The increase of capital, the steady decline in the rate of interest, the tendency to aggregation of capital, the seeking of investments that promise reasonable profits, the activity of our ship yards, the investment of American capital in the purchase of British steamsnips and placing them under the American flag indicates that the business is attractive and profitable without subsidy.

Within the last year American capital has bought the Leland line, one of Great Britain's greatest shipping institutions and when consolidated with the Atlantic Transportation Line will make a steamship company with the largest tonnage in the world. The report of the Leland Line for 1900 says, among other things: "The purchase of the West Indian Pacific Steamship Com-pany has been duly completed. The company now owns upwards of 99 per cent of the Wilson and the Furness Leland Lines. Steamers of the value of \$5,000,000 were recently added to the joint fleets. The directors declared a dividend of 6 per cent on ordinary shares and set aside \$1,850,000 to the account of the reserve funds." With further ort and evidence of the profitableness of ocean transportation it would seem that no subsidy bill could be enacted by Congress, taking from agriculture and other industries and from labor to add to the wealth of the already profitable aggregation of capital. I can not view the effort to pass a subsidy bill through Congress a this time and under present conditions, in any other light than a disregard of all equity, fairness, and justice, and an unwarranted appropriation of public funds. I can not believe that any member of Congress can fail to recognize the changed conditions that the expansion of trade and the abundance of capital has brought about. Such an abuse of offi-cial position as voting for a ship sub-sidy bill of any kind at this time would be speedily rebuked by the American people. Ever watchful vigilance is the

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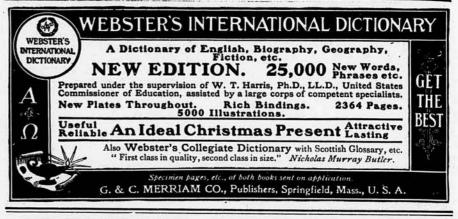


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Congress know how they feel on this important matter.

#### CONCLUSION.

Patrons, this session closes my official term. I have given to the order my best thought and effort. The officers and the members of the National Grange and our vast membership in all parts of our country have cooperated and earnestly, faithfully, and harmoniously labored to advance the interest of the order and improve agricultural conditions in all parts of our country. Personally I have been treated kindly and courteously by all the members of the order and by the press. Our order has been shown distinguished consideration by the administration and all departments of our government, by State governments, as well as by our agricultural colleges, by the public press of our country, and by

the people generally.

I have made many valuable, agree able, and pleasant acquaintances in all parts of our country that I appreciate and prize very highly. I desire at this time to extend my hearty, grateful thanks to all the members of the order, to the public press, and to all others who in any way have contributed to the f the order or added to my personal pleasure and happiness. May our glorious fraternity continue to exits benefits for good, to promote agricultural interest, building up good reputations and character personally and as an order to the end that our country may have a grander citizenship composed of intelligent, refined, honest, industrious, broad-minded, noble men and women.

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