



Volume XLII. Number 49

TOPEKA, KANSAS, DECEMBER 8, 1904

Established 1863. \$1 a Year

**KANSAS FARMER.**

Established in 1863.

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

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

**SUBSCRIPTION PRICE: \$1.00 A YEAR**

E. B. COWGILL.....Editor  
I. D. GRHAM.....Associate Editor  
H. A. HEATH.....Advertising Manager

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



**ADVERTISING RATES.**

Display advertising, 15 cents per line, agate (fourteen lines to the inch). Continuous orders, run of the paper, \$1.54 per inch per week.  
Special reading notices, 25 cents per line.  
Business cards or miscellaneous advertisements will be received from reliable advertisers at the rate of \$5.00 per agate line for one year.  
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. Special rates for displayed live stock advertising.  
Special Want Column advertisements, 10 cents per line of seven words per week. Cash with the order. Electrotype 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 communications to

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

**Table of Contents**

American literature program.....1207  
Apple is made, how an.....1216  
Bees in winter, feeding.....1207  
Buff Plymouth Rocks, thoroughbred.....1212  
Cleanliness, observe (poultry).....1212  
Cook trophy, Kansas wins the.....1208  
Country entertaining, some hints on.....1204  
Cry of the dreamer (the poem).....1206  
Dairy cows, experiments with.....1216  
Dress.....1206  
Faithless Sally Brown (poem).....1204  
Farm notes.....1200  
Forestry, what Kansas has spent for.....1216  
Fort Hays Branch Experiment Station, the.....1199  
Grange, railroad rates to Kansas State.....1207  
Ideals, a little talk on.....1204  
Insanity of impatience, the.....1206  
International live stock show.....1198  
Isle of Nid-Nod (poem).....1205  
King, valuable investigations by Professor.....1197  
Oyster shells for laying hens.....1212  
Packages on free-delivery routes.....1197  
Plant-breeding.....1197  
Poultry notes.....1212  
Recipes from the Crescent Club.....1206  
Rural free delivery of mail, extensions of.....1197  
Soul vistas.....1206  
Tea party, a.....1206  
Trespassing hunters came to grief.....1208  
Veterinary department, the.....1211

Secretary Morton, of the Navy Department, favors a big navy as a cheap insurance against war. There is something in the plan.

A recent official statement from the Kansas Agricultural College shows an average cost for the last seven years of \$99 per student enrolled. In some States the cost is much larger.

The short term of the fifty-eighth Congress began its sessions at noon last Monday. The terms of members of the House of Representatives expire March 4, 1905, so that this session must adjourn by that date. It is

expected that the appropriations will be about the only important measure to be considered.

Owing to the late receipt of the report of the International Live-Stock Exposition, also several urgent advertisements, a number of sale reports and interesting live-stock items have been crowded out until next week.

Last Saturday night and Sunday brought the first snow in Kansas. Over the western portion of the wheat belt, four inches was reported. This decreased towards the east until at Topeka the ground was barely whitened. The covering and moisture are most welcome to the wheat-growers.

Immigrants to the United States were not quite so numerous for the year ending June 30, 1904, as for the previous year. The arrivals were 857,046 for 1903 and 827,870 for 1904. But 19,870 more females arrived in 1904 than in 1903, and the immigrants brought with them \$20,894,383, being \$4,776,870 more than last year.

A statement from the official figures of the Canadian Government shows that 60 per cent of the imports of that country come from the United States and 24.6 per cent from the United Kingdom. The United States is supplying a larger share of the present imports of Canada than it supplies of the imports of any other country in the world. Some thinkers regard the growing intimacy of trade relations as an indication of approaching political union of Canada to the United States.

**EXTENSION OF RURAL FREE DELIVERY OF MAIL.**

During the fiscal year ending June 30, 1904, there were established 9,447 routes, making a total of 24,566 routes in operation on June 30, 1904.  
On July 1, 1903, the number of petitions for rural service pending was 11,700. Of this number 2,397 were reported on but had not been established at the close of the fiscal year. There were 7,842 cases made up for investigation during the past fiscal year, making 17,145 cases in all. During the year 11,630 cases were reported on, 6,780 favorably and 4,580 adversely, leaving 5,516 petitions pending on June 30, 1904. Of this number there were 764 cases reported on and awaiting action on that date.

**PACKAGES ON FREE-DELIVERY ROUTES.**

Persons living on rural free-delivery routes—and this will soon include practically all farmers—will be interested in Fourth Assistant Postmaster General Bristow's recommendation in his report, as follows:  
"With the establishment of rural mail delivery, and the increasing extension of rural telephone service by private interests, there has grown up a demand by the patrons of the rural service for the delivery of small packages of merchandise, such as food-stuffs, tobacco, dry goods, drugs, etc., on an order to the local merchant by postal card, telephone, or otherwise.

The value of these packages of merchandise is usually small, and the present rate of postage of 1 cent per ounce is practically prohibitive. The patron or merchant can not afford to pay 16 cents for the delivery of a pound of coffee or tobacco, or similar article, but if a special rate were established on such matter from the distributing office, for delivery to any patron on the rural routes from that office, it would be a great convenience to the patrons and become a source of revenue to the Department.

"It is, therefore, recommended that the Congress fix a rate of 3 cents per pound, or any fractional part thereof, on packages of books or merchandise not exceeding 5 pounds, mailed at the distributing postoffice of any rural free delivery route for delivery to a patron on said route. This rate should apply only to packages deposited at the local postoffice for delivery to patrons on routes emanating from that office, and not to mail transmitted from one office to another. The rate of 3 cents per pound would be ample remuneration for the Department, because there is no expense for railway transportation, and the system by which these packages are to be delivered is already established, and such delivery would entail no additional expense upon the Department. A special stamp could be provided for this class of mail matter."

**PLANT-BREEDING.**

Secretary Wilson, of the U. S. Department of Agriculture, reporting on the plant-breeding work of the Department, states that in the breeding and improvement of corn important advances are being made. The main object of this work has been the selection of strains of corn best adapted to the different sections of the United States. The work is being conducted in cooperation with twenty or more State experiment stations and many farmers. Each year the Department obtains pure seed from the originators and breeders of the leading strains of corn in various sections of the country, and is sending this seed to different localities for comparative tests. At the same time extensive hybridization work is proceeding for the purpose of securing sweeter, more tender, and more productive strains of sweet-corn for table use. Connected with this work, also, there are being studied problems relating to the handling of seed-corn, seed-selection, etc.

Extensive breeding investigations of oats have been carried on, mainly for the purpose of producing a profitable variety for the rich farm lands of the great corn-growing States, where oats are used in rotation with corn. The production of a more desirable oat for meal constitutes a part of this work. Some very promising hybrids have been obtained from the naked oat of China—the so-called "European hull-less oat."

In the improvement of potatoes important work is reported along two lines—(1) type selections, and (2) the production of new seedling varieties. This work was begun in 1902, and already very promising results

have been obtained, especially from some of the hybrids.

Other important lines of work, having for their object the securing of new types of grains, fruits, and other crops, have been carried on. Important work has been done in the matter of developing new varieties of pineapples, new varieties of pears, and other fruits.

**VALUABLE INVESTIGATIONS BY PROFESSOR KING.**

Prof. F. H. King, of Madison, Wis., is one of the most useful investigators of problems affecting the soil. His work is best known as emanating from the University of Wisconsin in which institution he made scientific and practical studies of many questions for which the man on the farm looks to the scientist for answers. His reports of these investigations and his writings on farm mechanics attracted the attention of the Department of Agriculture with the result that Professor King was invited to take a position in the Department's Division of Soils. With characteristic energy and zeal he entered upon the work of investigation in the new field. The facts developed by his experiments, instead of corroborating some previously published views of the head of the Division of Soils, tend strongly in the opposite direction. Professor King's reports of his experiments and their results were submitted for publication and some of them were rejected by the Chief. Professor King resigned. The matter went before the Secretary of Agriculture, with whose permission Professor King published a bulletin of 168 pages containing the rejected papers.

A brief examination of this book shows that it contains exceptionally valuable information on the management of soils.

In the first paper of the book is shown the influence of farmyard manure upon yield of certain crops. The experiments were tried with different amounts of manure—5 tons, 10 tons, and 15 tons per acre—upon poor soils and upon strong soils. It was found that with corn the effect of the manure was much greater upon poor than upon good soil. Thus, the increase in yield of corn upon poor soil was 6.35 bushels per acre for 5 tons of manure; 1274 bushels for 10 tons; 18.50 bushels for 15 tons; and 4.70 bushels for 300 pounds of guano. Upon strong soil the increase was 5.95 bushels per acre for 5 tons; 10.46 bushels for 10 tons; 10.39 bushels for 15 tons; and 5.65 bushels for 300 pounds of guano. The best results were obtained on the strong soil by the application of 10 tons of manure per acre, while on the poor soil the best results and the greatest increase of all followed the application of 15 tons of manure per acre. On the poor soils the increase in the yield was almost proportional to the amounts of manure applied. This increase averaged 69.1 pounds of dried shelled corn per ton of manure. Corn that is thoroughly air-dried contains about 10 per cent of moisture, so that the increase of marketable shelled corn from the manuring was about 76 pounds for

(Continued on page 1208.)

# The International Live Stock Show

## CHAMPIONS AND GRAND CHAMPIONS.

### SHORTHORNS.

Champion aged bull and grand champion, Master of the Grove—C. D. Bellows.  
 Champion junior bull, My Choice—J. G. Robbins & Son.  
 Champion aged cow, Lad's Lady—J. G. Robbins & Son.  
 Champion senior heifer, Queen's Ideal—W. B. Watts & Son.  
 Champion junior heifer, June of Woodhill—W. H. Dunwoody.

### HEREFORDS.

Champion aged bull and grand champion, Prime Lad—W. S. Van Natta & Sons.  
 Champion junior bull, Rare Lad—S. K. Brock.  
 Champion aged cow, Lorna Doone—W. S. Van Natta & Son.  
 Champion heifer—Anita 4th—O. Harris.

### ABERDEEN-ANGUS.

Champion aged bull and grand champion, Lucy's Prince—D. Bradfute & Sons.  
 Champion junior bull, Morona—E. T. Davis.  
 Champion aged cow, Blackbird 24th—C. J. Martin.  
 Champion heifer, Glenfoil Rose—E. T. Davis.

### GALLOWAYS.

Champion aged bull and grand champion, Imp. Worthy 3d—C. E. Clarke.  
 Champion junior bull, Mossstroper—C. E. Clarke.  
 Champion aged cow, Paragon—C. N. Moody.

Champion senior heifer, Evaline 2d of Avondale—C. N. Moody.  
 Champion junior heifer, Lutie Lake 2d—O. H. Swigart.

### RED POLL.

Champion aged bull and grand champion, Rowdy Rod—Geo. H. Smith.  
 Champion bull, Water Boy—Geo. H. Smith.  
 Champion aged cow, Aurelia—F. H. Hawley.  
 Champion heifer, Miss Gay—Geo. H. Smith.

### POLLED DURHAM.

Champion aged bull and grand champion, Golden—A. C. Woods & Sons.  
 Champion junior bull, Grand Trojan—J. H. Miller.  
 Champion aged cow, Ruby of Buttonwood—S. Hines.  
 Champion heifer, Princess May—J. H. Miller.

### FAT CATTLE.

Grand champion steer, Clear Lake Jute—Minnesota Experiment Station.  
 Champion yearling, Expectation—H. H. Fluck.  
 Champion calf, Ruby Zenoleum—S. R. Pierce.  
 Grand champion car load fat steers—Claus Krambeck.  
 Champion car load 3-year-old steers—F. Morrison's Shorthorns.  
 Champion car load of 2-year-olds—Claus Krambeck's Angus.  
 Champion car load of yearlings—Chas. Escher's Angus.

### FEEDERS.

Grand champion car load—Swensen Bros. Hereford calves.  
 Champion 2-year-olds—E. H. Grubb's Shorthorns.  
 Champion yearlings—F. W. Graham.  
 Champion calves—Swensen Bros.

### CARCASSES.

Grand champion carcass dressed beef, Funk's Choice—Funk Bros.  
 Champion yearling carcass, Bobbie Burns—Iowa Experiment Station.  
**COLLEGE FAT STEER EXHIBITS.**  
 Champion steer, any age, Clear Lake Jute 2d—Minnesota Experiment Station.  
 Champion yearling, Tama Jim—Iowa Experiment Station.  
 Champion calf, General Manager—Iowa Experiment Station.  
 Best five head of steers—Iowa Experiment Station.

At Chicago, during the week ending December 3, was held the great International Live-Stock Exposition. This great show of the world's best live stock has been growing in interest and value since its first conception and the year 1904 marks the climax in all that goes to make true greatness in a show of this kind. The early part of the week was characterized by remarkably fine weather for the location and the snowstorm which fell at mid-week did not seriously interfere with the attendance or complete success of the show.

The attendance has been the largest ever recorded for the International, there having been about 75,000 per day present on the grounds. The management has succeeded in removing many of the little irritating annoyances to which visitors heretofore have been subjected, and a more liberal policy throughout has resulted in the cordial approval by the public. This year the horses were exhibited in a large tent, erected for the purpose, which not only afforded a better lighted and more commodious ring for their exhibition, but gave more room for the showing of the various rings of the pure-bred cattle, in the pavilion, and was much less dangerous to the spectators.

While the show this year was not so large in point of numbers of animals exhibited, as it has been in other years, it was noticeable throughout that the quality was vastly better. No that the quality of the animals exhibited was better than heretofore, but that there were fewer tail-enders and culls in the several breeds. In horses, the show was particularly strong. Percherons, Belgians, Shires, and Clydes were quite numerous and of remarkable quality, while the Coach rings were perhaps as strong as any ever shown here. In connection with the horse exhibit, there was shown a

large exhibit of draft teams in harness, by the prominent packing houses, large mercantile firms and manufacturers of Chicago. These, when driven in six-horse teams to the great wagons made very impressive spectacles, which were watched with interest.

The beef cattle breeds together made up a show which for quality has probably not been excelled at any other show on earth, not even excepting the World's Fair. The Shorthorns always form a prominent feature in any great show ring in America and it was noticeable that either in show ring or sale ring the Shorthorn admirers were most numerous and the audience less changeable than with any other breed. In the Shorthorn ring, special interest centered in the great Kansas bull Master of the Grove, who appeared in the show ring here for the second time in his life, and won the Grand Championship of the breed. The Herefords were strong as is usual with this breed, and the bulk of the prizes went to well-known animals and herds that had been winners at other shows.

The admirers of the Angus breed were jubilant over the results attained at Chicago. Not only was their showing of breeding cattle a strong one, but they had the satisfaction of winning the Grand Championship for steer and Championship for car-load lots in competition with all breeders, grades and crossbreeds. The Galloways made one of the strongest shows that has ever been made by the breed in any land. In fact enthusiastic admirers of this breed state that they consider this show the strongest ever made by the Galloway breed in its history.

The pure-bred sales, reported on another page, show the appreciation in which the various breeds are held by the public, and in addition show a decided upward tendency in values for this class of animals.

The swine exhibit at the International this year was different from anything heretofore had, in that fat classes only were shown. It has been found by past experience that breeders are a little chary about showing their valuable breeding herds in a place so close to the stock yards and consequent infection, and we think the management of the International deserves the heartiest commendation for their action in shutting out all breeding classes, and making the show a fat-stock show only. Admirers of the Berkshire breed will derive satisfaction from the fact that that breed won the Grand Championship prize for pen of barrows in competition with all other breeds on exhibition. This breed also won the Championship for individual animal in the same kind of competition. The swine show this year was not strong in numbers as compared with former years, but we think this may be explained by the fact that the change in policy on the part of the management was not widely known nor clearly understood. Next year we believe this show will be very much larger, though it could scarcely be better in quality. The exhibit of sheep was very good, though not as large as it has been in other years. This year it was made up almost entirely of Canada and the Northern States. Our report of awards will show the result of awards obtained in these breeds.

A great deal of interest this year centered about the student's judging contest. Not only because of the reputation which the famous Spoor Trophy has already attained, but because of the fact that this year a corn-judging contest was inaugurated for the undergraduate students of the agricultural colleges, who were to contest for the Cook Trophy, which is valued at \$1,500. All Kansas will feel proud of the fact that the students of her Agricultural College, who went to Chicago this year for the first time on such an errand, were the winners of this Trophy by the scores which we show on another page.

General Manager Skinner deserves great credit for the success of this, the greatest International Live-Stock Exposition, and he is entitled to the personal thanks of every visitor for his efforts to make the occasion a pleasant and profitable one.

Following will be found a complete report of the awards made in the various breeds and classes:

## BREEDING CATTLE DIVISION.

### SHORTHORNS.

Exhibitors.—Tebo Land and Cattle Co., Clinton, Mo.; F. W. Harding, Waukesha, Wis.; John G. Roach, Glenview, Ky.; Abram Renick, Winchester, Ky.; F. W. Christian & Son, Indianapolis, Ind.; E. E. Souers, Warren, Ind.; J. F. Foley, Plymouth, Ill.; I. N. Forbes & Son, Henry, Ill.; W. H. Dunwoody, Minneapolis, Minn.; W. B. Watts & Sons, Salem, Ont.; J. G. Robbins & Son, Horace, Ind.; D. R. Hanna, Ravenna, Ohio; E. W. Bowen, Delphi, Ind.; C. D. Bellows, Maryville, Mo.; W. F. Kerlin, Rockfield, Ind.; Purdy Bros., Harris, Mo.; H. S. Bright, Versailles, Ky.; Dave Harrall, Liberty, Texas; Todd Benjamin, Sugar Grove, Ill.; Thos. F. Mercer, Sterling, Ill.; C. Hintz & Son, Fremont, Ohio; F. W. Cotton, Manila, Ind.; Jos. Duncan, Osborn, Mo.; J. D. Doubias & Son, Hope, Ind.; T. J. Wornall & Son, Liberty, Mo.; E. C. Holland, Milton, Iowa; N. W. Wagner, Fremont, Ohio; C. L. Gerlaugh, Osborn, Ohio; Chapman Bros., Winamac, Ind.; F. A. Edwards, Webster City, Iowa; William Warfield, Lexington, Ky.; Lewis Hawkey, Belvidere, Ill.; Frank O. Lowden, Oregon, Ill.; S. W. Dayton & Son, Panama, Iowa; C. A. Saunders, Manila, Iowa; C. E. Clark, St. Cloud, Minn.; W. O. Tibbals, Dubuque, Iowa; Chas. Baughman, Wayland, Mich.; R. W. Botts & Son, Plymouth, Ill.; J. R. Peak & Son, Winchester, Ill.; Geo. Bothwell, Nettleton, Mo.; J. F. & J. W. Prather, Williamsville, Ill.; W. A. Forsythe, Greenwood, Mo.

Bull 3 years old or over—First, C. D.

Bellows on Master of the Grove 161374; second, F. W. Harding on Whitehall Sultan 163573; third, I. N. Forbes & Son on Imp. Cock Robin 192127; fourth, W. F. Christian & Son on Royal Avalanche 165010; fifth, E. W. Bowen on Burnbrae Chief 191747; sixth, D. R. Hanna on Nonparell of Clover Blossom 153672.  
 Bull 2 years old and under 3—First, W. H. Dunwoody on Lovender Clipper 203771; second, C. D. Bellows on Invincible Hampton 206226; third, D. R. Hanna on King Edward 172814; fourth, H. S. Bright on Victor Missie 188499; fifth, Frank W. Cotton on Village Lad 133227.  
 Senior yearling bull—First, J. G. Robbins & Sons on My Choice 224379; second, F. W. Harding on Whitehall Marshall 209776; third, W. F. Christian & Son on Avalanche Royal 200220; fourth, Joseph Duncan on Gwendoline Victor 208932; fifth, Frank W. Cotton on King of Diamonds 206599.

Junior yearling bull—First, C. D. Bellows on Hampton's Model 210474; second, D. R. Hanna on Missie's Diamond 221080; third, Frank W. Cotton on Lord Lasalle 208139; fourth, Horatio S. Bright on Godwin Hero 223933; fifth, N. W. Wagner on Marshal's Best 227955; sixth, E. W. Bowen on Oneida's Chief 224347.  
 Senior bull calf—First, Tebo Land & Cattle Co. on The Conqueror 215051; second, J. G. Robbins & Sons on Prince Pluto; third, Tebo Land & Cattle Co. on The Choice of All; fourth, Purdy Bros. on Orange Monarch 2d 223948; fifth, Abram Renick on 2d Choice 224184; sixth, Tebo Land & Cattle Co. on Good Lad 215025.

Junior bull calf—First, C. A. Saunders on Cumberland's Last; second, C. D. Bellows on Hampton's Advance 227340; third, Tebo Land & Cattle Co. on Good Choice 227852; fourth, D. R. Hanna on Bapton Lavender 222355; fifth, F. W. Harding on Anoka Cery 224129; sixth, D. R. Hanna on King Edward 2d 221078.

Cow 3 years old or over—First, J. G. Robbins & Sons on Lad's Lady, Vol. 50; second, D. R. Hanna on Star's Queen, Vol. 49; third, D. R. Hanna on Jennie June, Vol. 50; fourth, E. W. Bowen on Queen of Beauty, Vol. 50.

Cow or heifer, 2 years old and under 3—First, E. W. Bowen on Fair Queen, Vol. 54; second, W. H. Dunwoody on Golden Bud, Vol. 57; third, J. G. Robbins & Sons on Lad's Missie, Vol. 54; fourth, F. W. Harding on Princess Maud 4th, Vol. 54; fifth, D. R. Hanna on Viscountess of Fairview 3d, Vol. 54; sixth, Geo. Bothwell on Herdsman Dream, Vol. 53.

Senior yearling heifer—First, J. G. Robbins & Sons on Lad's Emma, Vol. 58; second, E. W. Bowen on Victoria of Linwood 8th, Vol. 58; third, C. D. Bellows on Hampton's Queen of Beauty, Vol. 57; fourth, F. W. Harding on Anoka Missie, Vol. 57; fifth, J. F. & J. W. Prather on Keepsake 8th, Vol. 59; sixth, D. R. Hanna on Silver Rosalind, Vol. 56.

Junior yearling heifer—First, W. H. Dunwoody on Juno of Woodhill, Vol. 56; second, C. D. Bellows on Hampton's Lavender, Vol. 60; third, Tebo Land & Cattle Co. on Princess Flora 2d, Vol. 59; fourth, C. L. Gerlaugh on Mary Beauty 2d; fifth, Purdy Bros. on Fairview Orange Blossom 9th, Vol. 60; sixth, John G. Roach on Miss Valentina, Vol. 61.

Senior heifer calf—First, W. B. Watts & Sons on Queen Ideal, Vol. 45; second, Purdy Bros. on Pauline of Fairview, Vol. 60; third, E. W. Bowen on Lady Gloster 6th, Vol. 60; fourth, Tebo Land & Cattle Co. on Victoria's Choice, Vol. 59; fifth, C. E. Clarke on May Blossom, Vol. 60; sixth, I. M. Forbes & Son on Zoe of Linwood; seventh, Tebo Land & Cattle Co. on Violet Rose, Vol. 59; eighth, J. G. Robbins & Sons on Pluto's Berry, Vol. 60; ninth, W. F. Christian & Son on The Duchess, Vol. 60; tenth, C. E. Clarke on Ivy Leaf 3d, Vol. 60; eleventh, Tebo Land & Cattle Co. on Sweet Briar Rose, Vol. 59; twelfth, H. W. Wagner on Mary Marshall.

Junior heifer calf—First, W. H. Dunwoody on Woodhill May Blossom 2d, Vol. 60; second, F. O. Lowden on Lady Darling; third, F. W. Harding on Anoka Broadbrook; fourth, J. G. Robbins & Sons on Lad's Emma 2d, Vol. 60; fifth, C. E. Clarke on Gem 6th, Vol. 61; sixth, D. R. Hanna on Diamond's Clara, Vol. 60.

Senior sweepstakes bull, 2 years old or over—C. D. Bellows on Master of the Grove.

Junior sweepstakes bull, under 2 years old—J. G. Robbins & Sons on My Choice. Senior sweepstakes cow or heifer, 2 years old or over—E. W. Bowen on Fairy Queen.

Junior sweepstakes heifer, under 2 years old—J. G. Robbins & Sons on Lad's Emma.

Aged herd, consisting of one bull 2 years old or over; one cow 3 years old or over; one cow or heifer 2 years old and under 3; one heifer, 1 years old and under 2; one heifer under 1 year old—First, E. W. Bowen; second, J. G. Robbins & Sons; third, W. H. Dunwoody; fourth, D. R. Hanna; fifth, W. F. Christian & Son.

Young herd, consisting of one bull under 2 years old; two heifers 1 year old and under 2; two heifers under 1 year old; all except bull must be bred by exhibitor—First, J. G. Robbins & Sons; second, C. D. Bellows; third, F. W. Harding; fourth, Purdy Bros.

Two animals, either sex, produce of one cow—First, J. G. Robbins & Sons; second, W. H. Dunwoody; third, C. D. Bellows; fourth, Purdy Bros.; fifth, F. W. Harding.

Best four animals of either sex, get of one sire—First, J. G. Robbins & Sons; second, C. D. Bellows; third, Tebo Land & Cattle Co.; fourth, Purdy Bros.; fifth, F. W. Harding.

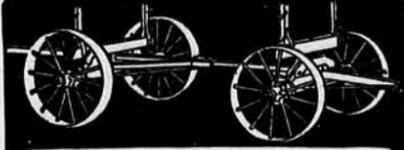
### SHORTHORN ASSOCIATION SPECIALS.

Best bull, any age—C. D. Bellows on Master of the Grove.  
 Best cow or heifer, any age—E. W. Bowen on Fairy Queen.

Calf herd—First, Tebo Land & Cattle Co.; second, J. G. Robbins & Sons; third, G. M. Clarke; fourth, C. D. Bellows; fifth, W. H. Dunwoody.

### ABERDEEN-ANGUS.

Exhibitors.—M. M. Sterns, Humboldt, Neb.; M. A. Judy, Beecher, Ill.; Collins Dysart, Nachusa, Ill.; Otto G. Callahan, Helena, Ky.; C. B. Amos, Woodburn, Ky.; A. C. Binnie, Alta, Iowa; D. Bradfute & Son, Cedarville, Ohio; E. T. Davis, Iowa City, Iowa; W. A. McHenry, Denison, Iowa; C. J. Martin, Churgen, Iowa; J. B. Withers, Missouri City, Mo.; M. P. & S. E. Lantz, Carlock, Ill.; Wm. Avery, Waldron, Ind.; Wilmer N. Foster, Attica, Ind.; Berry Lucas, Hamilton,



**WHAT DO YOU SAY?**  
 Several hundred thousand farmers say that the best investment they ever made was when they bought an  
**Electric Handy Wagon**  
 Low wheels, wide tires; easy work, light draft. We'll sell you a set of the best steel wheels made for your old wagon. Spoke united with hub, guaranteed not to break nor work loose. Send for our catalogue and save money.  
**ELECTRIC WHEEL CO., Box 48, Quincy, Ill.**

Mo.; Jas. H. Hall, Port Austin, Mich.; W. J. Miller, Metz, Iowa; Berry Lucas, Hamilton, Mo.; Jas. Bowman, Guelph, Ontario; Marion C. Stone, Milan, Mo.; Phillip C. McDonald, Princeton, Mo.; McLachlin Bros. & Johnson, Estill, Mo.; M. S. Sterns, Humboldt, Iowa; Parrish & Miller, Hudson, Kans.; W. B. Seeley, Mt. Pleasant, Iowa; E. Reynolds & Son, Prophetstown, Ill.; S. R. Pierce, Creston, Ill.; Otto G. Callahan, Helena, Ky.; M. A. Judy, Beecher, Ill.; Clifford Haws, Magnolia, Ill.; H. W. Elliott, Estill, Mo.; Chas. Schmidt, Iowa City; C. H. Gardner, Blandinsville, Ill.; W. J. Miller, Mentz, Iowa; Palmer & Palmer, Princeton, Ill.; Chas. J. Off, Peoria, Ill.; Jas. B. Withers, Missouri City, Mo.; S. Melvin, Greenville, Ill.

Bull 3 years old or over—First, D. Bradfute & Son on Lucy's Prince 46181; second, C. J. Martin on Juba of Moriah 62233; third, E. T. Davis on Woodiawn Blackbird Lad 35103; fourth, A. C. Binnie on Mayor of Alta 2d 38552; fifth, Collins Dysart on Verdo 44178; sixth, M. M. Sterns on Sillic 47017; seventh, C. B. Amos on Lon 3d 30831.

Bull 2 years old and under 3—First, M. P. & S. E. Lantz on Zaire the Great 49792; second, W. A. McHenry on Censor 52882; third, Wm. Avery on Gay Barbara 53570; fourth, Wilmer N. Foster on Rose Croix Hunter 60172; fifth, W. J. Miller on Sir Novice 49775; sixth, Berry Lucas on Black Monarch of Illington 2d 62483; seventh, Jas. H. Hall on Don Carlos H. 52807.

Senior yearling bull—First, W. B. Seeley on Blackbird Ito 64116; second, M. P. & S. E. Lantz on Zaire 22d 62484; third, E. Reynolds & Son on Matilda's Pride 62797; fourth, H. W. Elliott on Luchness 62968; fifth, Charles Schmidt on Pringo 63324; sixth, Berry Lucas on Maple Leaf Dale 57940; seventh, Clifford Haws on Cedar Hurst Lad 61849; eighth, D. Bradfute & Son on Gay Lad M. 3d 63225.

Junior yearling bull—First, E. T. Davis on Morone 63326; second, W. A. McHenry on Baden Lad 61833; third, C. H. Gardner on Valas Rosegay 63745; fourth, H. W. Elliott on Purchaser 72617; fifth, Chas. J. Off on Proud Fellowman 3d 66565; sixth, C. B. Amos on Ver Lacus Jack 71512; seventh, M. A. Judy on Gay Rover 72077.

Senior bull calf—First, M. A. Judy on Beechero 72745; second, McLachlan Bros. & Johnson on Rosegay Lad 70259; third, W. A. McHenry on Choice Goods 17671; fourth, Phillip C. McDonald on McDonald Lad 66952; fifth, C. H. Gardner on Key 72172; sixth, D. Bradfute & Son on Louis of Meadow Brook 72459; seventh, A. C. Binnie on Post Script of Alta 73101; eighth, B. R. Pierce on Lord Val 2d 74188.

Junior bull calf—First, Otto G. Callahan on Early Hill Magic 68065; second, D. Bradfute & Son on Quat of Meadow Brook 73350; third, Wilmer N. Foster on Jimmie Me Boy 72230; fourth, Parrish & Miller on Perfect Hale Lad 70095; fifth, B. R. Pierce on Andy Ito 74352; sixth, W. B. Seeley on Crown Me 71774; seventh, M. M. Sterns on Prince of Spring Creek 72181; eighth, Jas. Bowman on Elm Park Ralder 72546.

Cow 3 years old or over—First, C. J. Martin on Blackbird 24th 44725; second, E. T. Davis on Blackbird of Denison 31st 38949; third, W. A. McHenry on Blackbird McHenry 13th 23942; fourth, Otto G. Callahan on Queen Mother 7th of Drumfergus 62252; sixth, Collins Dysart on Valerie 3d 42306; seventh, Wm. N. Foster on Highschool 30173; eighth, W. J. Miller on Gay Rose Princess 46163.

Cow or heifer 2 years old and under 3—First, C. J. Martin on Blackbird 26th 54457; second, E. T. Davis on Blackbird Favorite 2d 59234; third, W. A. McHenry on Blackbird McHenry 45th 54144; fourth, W. A. McHenry on Erica McHenry 3d 52880; fifth, W. J. Miller on Snowflake 2d of Kirkbridge 44106; sixth, C. J. Martin on Lucy of Carston 61752; seventh, D. Bradfute & Son on Broadus Heather 54291; eighth, Collins Dysart on Vallenne 55575.

Senior yearling heifer—First, E. T. Davis on Glenfoil Rose 63489; second, W. A. McHenry on Abess McHenry 5th 61871; third, E. T. Davis on Fay Blossom 56500; fourth, W. A. McHenry on Coquette McHenry 30th 61880.

Junior yearling heifer—First, M. P. & S. E. Lantz on Zara 26th 68275; second, M. P. & S. E. Lantz on Blackcap Beauty 64704; third, E. T. Davis on Inverness Fern 63334; fourth, C. J. Martin on Ruth of Cherokee 2d 64308; fifth, Otto G. Callahan on Early Hill Ontop 62504; sixth, D. Bradfute & Son on Blanch 4th of Meadow Brook 63612; seventh, M. P. & S. E. Lantz on Black Erroline 68276; eighth, S. Melvin on Princess Alexandra 9th 67315.

Senior heifer calf—First, A. C. Binnie on Eileen Lass 73102; second, D. Bradfute & Son on Twill of Meadow Brook 72460; third, W. A. McHenry on Barbara McHenry 18th 71677; fourth, E. T. Davis on Prizetta 72306; fifth, C. J. Martin on Floretta of Cherokee 71979; sixth, M. A. Judy on Key of Hightington 72744; seventh, S. R. Pierce on Blackwood Ideal 74186; eighth, H. W. Elliott on Matilda Howard 2d 72621.

Junior heifer calf—First, D. Bradfute & Son on Winnie of Meadow Brook 72461; second, E. T. Davis on Marguerite D. 72307; third, M. A. Judy on Blackbird 32d 72746; fourth, Wm. Avery on True Pride Sunbeam 72824; fifth, A. C. Binnie on Mina of Alta 5th 73111; sixth, Jas. Bowman on Elm Park Rosebud 72545; seventh, W. B. Seeley on New Year's Lass 66949; eighth, (Continued on page 1201.)

**Agriculture**

**COMING EVENTS.**

Will secretaries and those having the management of coming events, oblige the Kansas Farmer by sending dates?

December 30 and 31, 1904, Kansas Auctioneers' Association annual meeting.

**Farmers' Institutes.**

December 14-15, Oak Grange, Shawnee County, Mrs. L. E. Tice, R. F. D. No. 7, Topeka, Kans. Profs. Henrietta W. Calvin and E. A. Popenoe.

December 18-19, Berryton, Shawnee County, W. H. Waters, R. F. D. No. 20, Berryton, Kans. Profs. E. A. Popenoe and J. D. Walters.

December 19-20, Stockton, Rooks County, J. C. Foster, Stockton. Profs. A. M. TenEyck and Henrietta W. Calvin.

January 11-14, 1905, Farmers' Institute, Hiawatha, Brown County. E. A. Chase. January 12, Women's Day, Miss Flora Rose; January 13, Assistant V. M. Shoemaker.

February 2-3, 1905, Summerfield, Marshall County, S. Baringer, Beattie. Profs. E. A. Popenoe and Henrietta W. Calvin.

The Summerfield Institute is a joint farmer's institute of the farmers of Marshall County, Kans., and Pawnee County, Neb.

**The Fort Hays Branch Experiment Station of the Kansas Agricultural College.**

The Fort Hays Branch Experiment Station is part of the abandoned Fort Hays Military Reservation, which is situated two hundred and ninety miles west of Kansas City on the Union Pacific "Overland Route." The reservation embraces 7,500 acres of land lying along Big Creek in Ellis County. The soldiers stationed at the post were withdrawn in November, 1889, after which time the buildings and the timber along the creek were subject to the usual neglect and abuse. In March, 1900, a bill passed Congress ceding this land to the State for the establishment of Western branches of the Agricultural College Experiment Station and State Normal School; which act was approved in February, 1901. During the summer of 1899 the reservation was erroneously reported open for settlement and nearly every quarter was squatted on. Some of the filings were even accepted and homestead papers allowed. Upon the State's acceptance of the land, appropriations were made for beginning work, but were not available until a clear title was secured to all the land. Some of the squatters recognized the error and relinquished all claim. Others had made some improvement and were given leases of from three to five years.

The board of regents of the two State institutions benefited, made a division of the land, which gave the Agricultural College nearly all of that along the creek which runs diagonally through the quarters for four miles. The land slopes gently back from the creek to an elevation of perhaps two hundred feet, giving a great variety of conditions.

**THE FIRST WORK**

done on the branch station was the breaking of prairie, which was begun in March, 1901. About 500 acres were broken and one-half of it planted to spring crops, consisting of Kafir-corn, sorghum, barley, macaroni wheat, millet, corn, cow-peas, soy-beans, peanuts, melons, etc. On about 22 acres of sod alfalfa was sown. A grass garden was planted containing 31 varieties, the seed being supplied by the U. S. Department of Agriculture. These crops, with the exception of macaroni wheat and barley, all made a very favorable showing. The wheat and barley were sown too late and on sod, so that little could be expected.

**FALL WHEAT.**

In the fall of 1902, 200 acres were seeded to fall wheat. This included a variety-test of 160 varieties, disking versus not-disking sod, plowing versus disking versus stubble, corn-stubble versus bean-stubble ground, and early versus late breaking. In 1903 the area devoted to fall wheat was increased to 250 acres, including a test of 175 varieties, and the following methods of preparing land for wheat were used. Early disking of stubble and plowing later, using the moldboard plow; disk-

plow, no treatment following; plowing, with packer and harrow following plow; time of plowing the land—plots plowed two weeks apart, beginning July 31, ending November 1; plowing versus disking versus drilling in stubble, and a rotation experiment for the determination of effects of various crops and fallowing on the succeeding wheat crop. The latter test requires the continuous use of 160 acres; the crops used are Kafir, oats, beans, and barley.

**RESULTS OF WORK.**

The variety test is in cooperation with the Bureau of Cereal Investigations of the Department of Agriculture. The varieties consist of direct importations of promising grains from regions similar in climatic conditions, etc., all over the world. A large number of the varieties tried are hybrids of our best wheats. These latter are requiring a great deal of selection to fix types. Many have been divided and sub-divided until there are a dozen or more types from a single cross. The work requires a careful taking of voluminous notes. Some of the direct importations are proving to be better yielders than the common wheats. A very small increase in yield will mean immense increase in the total receipts for winter wheat.

The crop of 1903 was much better than that of 1904. Our best variety, Kharkov, yielded 40 bushels in 1903 and but 20 bushels in 1904. This is accounted for by a lack of moisture in the spring of the present year and the prevalence of rust at ripening time. In the various trials of preparation of land for wheat, it may be said that the best farming gave the largest yield; that is, early breaking, early plowing, followed by packing and harrowing, which are much the surer methods.

**SPRING CROPS.**

In 1903, 250 acres were devoted to spring crops, mostly small grains, and in 1904 practically the same amount. The work with spring crops includes principally the tests of varieties.

Spring wheat has not made a favorable showing. The durum or macaroni varieties are quite promising, but owing to the newness of the land, etc., they may not have had a favorable trial. The work has comprised a trial of fifteen varieties.

Oats proves to be a satisfactory crop. The test includes sixteen varieties. Texas red rust-proof, led in yield in 1903, making 40.67 bushels per acre. But the Kherson, the leading wheat at the Nebraska Station, made a yield the present season of 45 bushels per acre, which is considerably more than the Texas red made.

Barley made a good crop in 1903 but not nearly so good the past season. The spring was dry, and the ground had not been plowed the previous fall so it did not hold enough moisture to insure germination. Barley is a reliable crop and one not fully appreciated. There are twenty-two varieties on trial.

Corn is generally considered of little importance as a crop this far west; but our experience the past two years has not verified this opinion. However, it is obvious that the variety must be quick-maturing, ripening within 75 to 90 days, or 100 at the latest. After the first of August, the season for corn becomes very uncertain. The extensive fields of stubble left from harvest are great reflectors of the sun and if there are not frequent rains, the air becomes too hot and dry for corn. The early varieties would be out of the way usually, before this time. In 1903 the season was favorable for larger, late varieties and a yield of 37 bushels was secured with a large, yellow variety. The year previous (1902), the large, late corn did not make anything. The crop of the present season has not been as good as last but the medium early varieties have done the best.

Kafir-corn and sorghum are the main forage crops and a large yield is always secured. The usual method of planting is to seed thick with a grain-drill and cut as hay. However, a crop is more certain if the planting is done with a lister, the seed being put in very thick. This method admits of

cultivation and the crop may be harvested with a corn-binder. It admits further of saving the seed—Kafir-seed being nearly as valuable for feed as corn.

Alfalfa is but beginning to be appreciated. The general opinion is that it must have low, moist soil to grow in. The crop does better in such location, but it does not follow that it will not produce profitably in less favorable locations. A field of alfalfa sown in the spring of 1903, was cut three times the second year and a fair crop secured each time. It is not expected that alfalfa will do much for three to four years. Time is required for its roots to get down into the soil.

In the spring of 1902 a field was sown on sod that, previous to breaking, was a prairie-dog town. The seed was sown May 28 and 29, and 57 days later a crop of alfalfa hay was cut; the growth in some places being 24 inches. Each succeeding year the crop has been better. It is safe to say that land that will grow a profitable crop of wheat will also grow a profitable crop of alfalfa.

Grasses being of much importance to the Western section have received their share of attention. This work is in cooperation with the Department of Agriculture and over forty varieties have been sown. These have been such as are most promising, largely natives of the Western and drier sections. The Bromegrasses, Bromus inermis especially, is the most promising. This is proving a great favorite and seems better adapted to Western conditions than any other. The Agropyrons, Panicums, and Elymus are also promising. It will require more time to determine the value of grasses; but from present observations, the advice would be to go very slow about plowing up the native grass. Nature has the question very well solved.

Live-stock appropriations have admitted of obtaining up to the present time a herd of 144 head of common cattle, mostly breeding stock with good Hereford and Shorthorn bulls with them. The object in this work is to breed up the common stock as an example of what may be done with that class. A beginning has also been made with hogs; three breeds being represented: Berkshire, Poland-China, and Duroc-Jersey.

The result of the first feeding experiment credited to the station follows, as reported in Press Bulletin No. 134, Fort Hays Hays Branch Experiment Station, Kansas State Agricultural College.

**BABY BEEF.**

A considerable amount of feed having been grown at the Fort Hays Branch Station during the season of 1903, a feeding experiment was authorized. The feeds are those which can be grown on nearly every farm in this section of the State. At the time the experiment was planned, eighteen months had not yet elapsed since the first sod was turned at the branch station. Owing to the scarcity of labor, the feed-lots were not completed until December, 1903. The calves were grade Hereford and Shorthorn, the former predominating, and were eight to ten months old when put in the lot. The lots are on well-drained ground, 66 by 300 feet each, inclosed by woven-wire fence. Each lot has a shingle-roofed shed open to the south, and good, clean water in a tank near it.

The 56 head of calves were carefully sorted and weighed so that the lots were made as nearly alike in quality and weight as possible. On December 21, after having been weighed on three consecutive days, they were put on feed. The feeding was begun at one pound of grain and ten pounds of roughage per day for each animal. This was increased gradually for more than two months before the lots were getting all the grain they would eat. The roughage was reduced as the quantity of grain increased. After they were feeding up to the limit, they were given just what they would clean up twice daily. The grain and hay were carefully weighed to each lot at every feed. The grain was all medium-finely ground and the lots getting corn were fed corn-and-cob-meal until the

**Get the shaving habit and use Williams' Shaving Soap. It pays.**

Sold everywhere. Free trial sample for 2-cent stamp to pay postage. Write for booklet "How to Shave."

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

Through their adoption by farmers and their great money-making possibilities realized our "Kingler" and "Buddy" are doing more to make hay baling popular than all other agencies combined. Ask your dealer or write direct for a full free particulars. Little Giant Hay Press Co., Dallas, Texas.



**Better Wire, Thicker Galvanizing.** Simpler construction make Page Fences best investments. Ask for photo showing fence after 19 years use. Page Woven Wire Fence Co., Box 7819, Adrian, Mich.

**TELEPHONES FOR FARMERS' LINES**  
Build your own lines. Inexpensive and simple. We will tell you how. Book of Instructions Free. **CN 302**  
**THE NORTH ELECTRIC CO.**  
197 St. Clair St. Cleveland, Ohio.

**Tripple Gear Tilting Hopper A Fast Grinder**  
Write for Circles and Prices  
Kingman-Moore Imp. Co.  
Kansas City, Mo.

**\$10.00 Sweep Feed Grinder. \$14.00 Galvanized Steel Wind Mill.**  
We manufacture all sizes and styles. It will pay you to investigate. Write for catalog and price list.  
**CURRIE WIND MILL CO.,**  
Topeka, Kansas.

**Well Drilling Machinery**  
Portable and drill any depth by steam or horse power. 28 Different Styles. We challenge competition. Send for Free Illustrated Catalog  
**KELLY & TANEYHILL CO.,**  
33 Chestnut St., Waterloo, Ia.

**THE LARGEST AND BEST LINE OF WELL DRILLING MACHINERY** in America. We have been making it for 20 years. Do not buy until you see our new illustrated Catalogue. Send for it. It's FREE.  
**AUSTIN MFG. CO., CHICAGO.**

**WE TAKE THE RISK---YOU TAKE THE FENCE. 30 Days' FREE TRIAL**  
Given you, at our risk, of as much as you need to do that job of fencing you have in mind. You will find it cheaper than you expected. better than you ever saw. If not send the fence back, we pay freight on 40 rods or more. We have faith in our fences and in you. Send for fence facts and free book. Advance Fence Co., 5717 Old St., Peoria, Ill.

**NEW HERO FORCE FEED**  
**CORN SHELLERS**  
Never clog—clean shelling—large capacity—great durability. Two and four-hole custom shellers—one and two-hole farmer's shellers. Also corn huskers, feed grinders, feed cutters, horse powers, windmills, manure spreaders, etc. Large catalogue free.  
**APPLETON MFG. CO.,** 19 FARGO ST. BATAVIA, ILL.

last three weeks, when they received straight corn-meal. All the feed was of good, ordinary quality and grown on the station farm.

The experiment continued 183 days, ending June 21, 1904. The following table shows feed and results of the seven lots:

**Allen's Lung Cures COUGHS COLD CROUP Balsam**

22 acres of land is laid out in plats of 2 acres each; 60 rods long and so

Lot and Feed.	Average weight at beginning, lbs.	Gain per head, lbs.	Daily gain per head, lbs.	Feed to make 100 pounds gain.		No. in good marketable condition.
				Grain, lbs.	Hay, lbs.	
1. Corn and alfalfa.....	399	338	1.85	545	388	8
2. Barley and alfalfa.....	401	297	1.62	519	421	6
3. Wheat and alfalfa.....	413	284	1.56	404	432	6
4. Corn and sorghum.....	397	224	1.23	715	592	4
5. Corn and prairie hay.....	406	262	1.43	641	381	5
6. Corn and oats straw.....	405	251	1.37	717	354	4
7. Mixed feeds*.....	403	328	1.80	473	414	7

\*One-third each of grains and one-fourth each of different hays.

There was a more marked difference in the appearance of the lots than the results show, though the rank would be in the same order as the daily gains. The alfalfa lots fed much more evenly than the sorghum, straw, or prairie-hay fed lots, hence would have brought a better price on the market. It has been expected that all the lots would be sold on their merits, but as a few head in several of the lots were not in first-class condition, only a part of these were sold. Thirty-six head were shipped to the Kansas City market. They averaged 694 pounds and brought five cents on a steady market, netting \$33 per head. When bought for the experiment, the 56 head cost \$13 each, or \$3.22 per hundredweight.

In the table that follows, the feeds have been given approximate local prices, that is, corn 40 cents, wheat 65 cents, and barley 40 cents per bushel; alfalfa \$4, prairie hay \$3.50, sorghum \$3.50, and oat straw \$1 per ton.

Lot Number.	Weight when bought, lbs.	Cost of lot.	Lot weighed at		Value of lot.	Gain per lot.	
			Value of feed.	Value of lot.			
1	3193	\$102.91	\$ 97.10	5900	\$5.25	\$309.75	\$109.74
2	3206	103.33	118.66	5533	5.00	279.15	57.16
3	3305	106.52	119.07	5410	5.00	270.50	44.91
4	3173	102.26	94.18	4967	4.50	223.51	27.09
5	3251	104.78	92.24	5347	4.75	253.98	56.96
6	3236	104.30	88.35	5243	4.50	235.93	43.28
7	3220	103.78	118.69	5707	5.00	285.35	62.88

\*From a study of the market at the time the 36 head were sold, it is thought that the lots would have sold for the price indicated.

A detailed record of the labor for the 183 days' feeding was kept, from which the following extract is taken:

One man 3 1/2 hours daily, for 183 days @ 12 1/2 cents per hour.....	\$ 85.75
One man, with team, 2 1/3 hours daily, for 183 days @ 25 cents per hour.....	106.75
Grinding 1,426 bushels grain @ 1 cent.....	14.26
<b>Total.....</b>	<b>\$206.76</b>

**EQUIPMENT.**

The appropriations for the biennial period ending June 30, 1903, amounted to but \$6,000. This was used largely in breaking and fencing, and in purchasing a few necessary implements. The last Legislature was more liberal, appropriating a total of \$32,500 for the present biennial period. The principal items of this appropriation were for current expense; a boarding-house for employees, 30 by 50 feet; horse-barn, 64 by 72 feet; water plant, with stone tower supporting reservoir from which more than a mile of water piping supplies all buildings and stock-tanks with fresh water; the building of fences, feed-lots, sheds, and repairs on old buildings moved from the old Fort site and used for granaries, tool-shops, and one residence; steam-thrashing outfit and plow; farm machinery of various kinds, fourteen head of horses, harness, wagons, etc.; a bridge across the creek, 74 feet long, and an irrigation plant that has been operated in conjunction with the Irrigation Investigations Commission of the Department of Agriculture. The appropriation provided for current expenses would be inadequate were it not augmented by the sale of products of the station. With full equipment and an extensive policy in experiments, the station will be made nearly self-supporting.

**IRRIGATION.**

A well 10-feet in diameter was sunk near the creek, reaching shale 40 feet from the surface, and a No. 4 centrifugal pump installed. This well contains sixteen feet of water and has a flow of 20,000 gallons per hour. A tract of

arranged that one-half of each plat is irrigated. Various crops were planted on the plats, and as only half was irrigated, the value of the irrigation is determined. In 1903 potatoes showed a gain of 100 per cent for irrigation, corn 30 per cent, and beets 35 per cent. Alfalfa irrigated before it had started in the spring of the present year, increased over that not irrigated, .09 per cent for the first crop, 29 per cent for the second, and 66 per cent for the third crop.

**HORTICULTURE AND FORESTRY.**

An orchard with three hundred trees of apple, peach, plum, cherry, and crab was planted in 1903. It has made a most excellent start. A shelter-belt of osage, honey-locust, and cottonwood and a nursery of 4,000 evergreens have also started a splendid first growth.

**WEATHER OBSERVATIONS AND SOIL MOISTURE.**

The station is possessed of the following weather-recording instruments,

which enable the keeping of quite a complete history of the weather: Anemometer, barometer, rain gauge, max-

imum, minimum, wet- and dry-bulb-thermometers. The proper complement of books, similar to those the Government Weather Bureau uses, show the weather for any period desired.

Soil-moisture determinations are made in connection with most of the farming operations. The question of moisture is certainly important, as the crops vary directly with the moisture available, and the moisture available is largely determined by the handling of the soil. It is seldom that the annual rainfall would not admit of a maximum crop if the moisture could be held and used by the crop when needed. Very little has been done along the line of the preservation of moisture in an experimental way as our land is yet too new; but it will doubtless be a very important part of the future work.

**THE FUTURE.**

With the present equipment and force, about all the work that can be handled is now under way. But as the leases to the land now held by squatters expire and more land is made available, more experiments may be conducted. The land now available has doubled because of the expiration of leases and our equipment is not adequate.

It is not expected that any considerable amount more will be broken as a large acreage of pasture is desirable. The station now has 900 acres in pasture. At the termination of the last squatter's leases in 1906, the station will have possession of 2,500 acres of farm land. As this land comes in gradually, the following is a conservative estimate of appropriations that

will be asked for from the next Legislature, to further equip and develop the station:

	Appropriat'n, 1905-06.	Appropriat'n, 1906-07.
Current expenses.....	\$ 6,000	\$ 6,000
Machinery.....	1,000	1,000
Fencing.....	500	500
Sheds.....	500	500
Improved live stock.....	2,000	2,000
Teams and equipment.....	2,000	2,000
Horse-sheds.....	500	500
Hay-sheds.....	300	300
Office and laboratory.....	1,000	1,500
Granary and elevator.....	1,500	2,500
Superintendent's residence.....	1,000	1,000
Cottage.....	500	500
General building repairs.....	500	500
Extension of water system.....	200	200
Horticulture.....	1,000	1,000
Irrigation dam.....	800	800
<b>Total.....</b>	<b>\$18,000</b>	<b>\$17,800</b>

It is believed that Western Kansas, Nebraska, Colorado, and Oklahoma feel a kindred interest in this Experiment Station. Its situation geographically gives the results obtained here a value to all the so-called semi-arid West. The land is here, and the need for experimentation is apparent to all; so it lies with our State Legislature to provide the means and the management to create the results—there is no question about the public being ready for the benefits to be derived.

J. G. HANEY, Supt.,  
O. H. ELLING, Foreman.

[Note: The result of the work up to January, 1903, is soon to be published in a bulletin; the work of the present year will also be published later.]

**Farm Notes.**

N. J. SHEPHERD, ELDON, MO.

Select the feed for horses with a view to quality.

Groom and clean up the work-teams twice daily.

Choose cuttings when the plants are most vigorous.

There is no month when cuttings can not be rooted, with care.

To obtain the best results in churning the cream should be slightly sour.

Poor food makes poor manure; rich food makes rich manure.

Exercise is an important item in the growth and development of breeding animals.

A mound of earth built up hard and sharp around the base of young fruit-trees will protect from mice.

The period of cheapest growth in an animal is before the animal matures.

Regular and exact hours for feeding are necessary to secure the best results in fattening stock.

The only way to have clean milk is by keeping the dirt from it and this goes a long ways in securing good flavor.

All things being equal, the large animal consumes in exact proportion to its size.

The man who always feeds well in flush as well as in hard times is the one who wins in the end.

Stock that shows thrift and health always has the advantage of stock that is running down when offered for sale.

Usually when compelled to buy feed, more thought is given as to what will make the most profitable as well as the most economical return.

In breeding, defects are more easily stamped on the next generation than good qualities.

Fat sheep never advance to extreme values reached by other fat stock; at the same time they are less apt to go to an extreme the other way.

It is equally as dangerous to work a horse too soon after feeding as to feed too soon after working.

Other things being equal of two animals, the one which is the better feeder will be the more profitable.

Mixed grasses make a better and surer pasture than a single variety, though it be the very best of all.

The kind of husbandry in which sheep of some kind do not figure is lacking in a most substantial means of sustaining fertility.

Stock with inherent good qualities will make money on the same care and feed which with scrubs will only bring loss.

To maintain the fertility of the farm, grow as large crops as possible but take care to return to the soil the elements taken from it.



**Miss Gannon, Sec'y Detroit Amateur Art Association, tells young women what to do to avoid pain and suffering caused by female troubles.**

"DEAR MRS. PINKHAM:—I can conscientiously recommend Lydia E. Pinkham's Vegetable Compound to those of my sisters suffering with female weakness and the troubles which so often befall women. I suffered for months with general weakness, and felt so weary that I had hard work to keep up. I had shooting pains, and was utterly miserable. In my distress I was advised to use Lydia E. Pinkham's Vegetable Compound, and it was a red letter day to me when I took the first dose, for at that time my restoration began. In six weeks I was a changed woman, perfectly well in every respect. I felt so elated and happy that I want all women who suffer to get well as I did." —MISS GUILA GANNON, 359 Jones St., Detroit, Mich., Secretary Amateur Art Association. —\$5000 forfeit if original of above letter proving genuineness cannot be produced.

When one considers that Miss Gannon's letter is only one of the countless hundreds which we are continually publishing in the newspapers of this country, the great virtue of Mrs. Pinkham's medicine must be admitted by all.

**The OLD RELIABLE ANTI-FRICTION FOUR-BURR MILL**



No gearing, no friction, thousands in use. Four-horse mill grinds 60 to 80 bushels per hour. We make a full line of FEED MILLS, best ever sold, including the FAMOUS IOWA MILL NO. 2 for \$12.50 Also Hot Air Furnaces, Farm Boilers, etc.

Manufactured and Sold by The Bovee Grinder & Furnace Works Waterloo, Iowa.

**BOWSHER**  
(Sold with or without elevator.)  
Crush ear-corn (with or without shocks) and grind all kinds of small grain, and head knaffir. Use Conical Shape Grinders. Different from all others.  
**LIGHTEST RUNNING.**  
Handy to Operate. 7 Sizes—2 to 25 h. p. One size for wind-wheel use.  
Also make Sweep Grinders; both Geared and Plain.  
**C. N. P. BOWSHER CO.,**  
South Bend, Ind.

**FROM \$60 TO \$125 A MONTH MADE WITH Gearhart's Improved KNITTER**  
by either knitting for the trade or selling machines. Knits everything from homespun or factory yarn equal to hand knitting, also all sizes of hosiery, without seams. Only machine made with RIBBING ATTACHMENT. Ahead of all competitors. Write us at once for our catalogue and samples of work which explains everything. **SATISFACTION GUARANTEED.** Address, J. E. GEARHART & SON, Box 59, Clearfield, Pa.  
**\$3 a Day Sure**  
Send us your address and we will show you how to make \$3 a day absolutely sure; we furnish the work and teach you free, you work in the locality where you live. Send us your address and we will explain the business fully, remember we guarantee a clear profit of \$3 for every day's work, absolutely sure. Write at once. **ROYAL MANUFACTURING CO.,** Box 889, Detroit, Mich.

INTERNATIONAL LIVE-STOCK SHOW.

(Continued from page 1198.)

E. Reynolds & Son on Heather Queen 3d 72245. Senior sweepstakes bull 2 years old or over—D. Bradfute & Son on Judy's Prince. Junior sweepstakes bull under 2 years old—E. T. Davis on Marona. Senior sweepstakes cow or heifer 2 years old or over—C. J. Martin. Junior sweepstakes heifer under 2 years old—E. T. Davis on Glenfield Rose. Aged herd—First, C. J. Martin; second, E. T. Davis; third, W. A. McHenry; fourth, D. Bradfute & Son; fifth, Collins Dysart. Young herd—First, E. T. Davis; second, W. A. McHenry; third, M. P. & S. E. Lantz; fourth, D. Bradfute & Son; fifth, W. B. Seeley. Two animals, either sex, produce of one cow—First, M. P. & S. E. Lantz; second, E. T. Davis; third, W. A. McHenry; fourth, C. J. Martin; fifth, A. C. Binnie. Best four animals of either sex, get of one sire—First, W. A. McHenry; second, M. P. & S. E. Lantz; third, D. Bradfute & Son; fourth, A. C. Binnie; fifth, E. T. Davis.

ABERDEEN-ANGUS ASSOCIATION SPECIALS.

Best bull any age—D. Bradfute & Son on Lucy's Prince. Best cow or heifer of any age—C. J. Martin on Blackbird 24th. Calf herd—First, D. Bradfute & Son; second, E. Reynolds & Son; third, M. A. Judy; fourth, W. B. Seeley.

HEREFORDS.

Exhibitors.—Geo. B. Conley, Marshall, Mich.; W. S. Van Natta & Son, Fowler, Ind.; W. H. Curtice, Eminence, Ky.; O. Harris, Harlrs, Mo.; Hemenway & Cook, Stewart, Ill.; Avery & Hines, Alto Pass, Ill.; S. W. Anderson, Blaker Mills, W. Va.; G. W. Leigh, Aurora, Ill.; Sanford Bros., Eminence, Ky.; H. N. Thompson, Woodstock, Ill.; H. J. Fluck, Goodenow, Ill.; S. L. Brock, Macon, Mo.; Luce & Muxley, Shelbyville, Ky.; Cargill & MacMillan, LaCross, Wis.; Joe Grady, Versailles, Ky.; M. E. Maguire, Carbondale, Ill.; J. H. Hoxie, Thornton, Ill.; A. C. Huxley, Bunker Hill, Ind.; Thomas Clark, Beecher, Ill.; Albert A. Fuller, North Lake, Wis.; Morris Cook, Stewart, Ill.; Mrs. C. S. Cross, Emporia, Kans.; Brown & Fletcher, Cloverdale, Ind.; Newton Long, Sumner, Mo.

Bull 3 years old or over—First, W. S. Van Natta & Son on Prime Lad 108911; second, O. Harris on Fulfiller 107722; third, Hemenway & Cook on Masquerader 109740; fourth, S. W. Anderson on Actor 26th 136288; fifth, W. H. Curtice on Beau Donald 39th 121457; sixth, G. W. Leigh on Happy Christmas 191480; seventh, Avery & Hines on William 124423; eighth, Sanford Bros. on Bright Lad 119534.

Bull 2 years old and under 3—First, Luce & Moxley on Prince Rupert 8th 142701; second, O. Harris on Keep On 26th 136177; third, S. L. Brock on Disturber 139689; fourth, W. S. Van Natta & Son on Donald March On 137719; fifth, M. E. McGuire on Perfection Yet 134616; sixth, S. W. Anderson on Marmaduke 5th 136303; seventh, Cargill & MacMillan on Fair Lad E. 167739; eighth, W. E. Hemenway & Son on Right Lad 138968.

Senior yearling bull—First, S. L. Brock on Rare Lad 160154; second, O. Harris on Benj. Wilton 10th 156708; third, W. H. Curtice on Beau Donald 58th 162608; fourth, W. S. Van Natta & Son on Admiral 160848; fifth, W. S. Van Natta & Son on Cromwell 160850.

Junior yearling bull—First, Sanford Bros. on Bright Lad Jr. 166334; second, S. W. Anderson on Actor 30th 174207; third, Cargill & MacMillan on Dale Boy 169409; fourth, H. J. Fluck on Ben Hur 159675.

Senior bull calf—S. L. Brock on Distributor; second, A. C. Huxley on Perfection Fairfax 179767; third, S. W. Anderson on Mapleton 189232; fourth, O. Harris on Good Enough 4th 179239; fifth, A. C. Huxley on Beau Dale 2d 179769; sixth, W. S. Van Natta & Son on Prince Lad 2d 187563; seventh, W. H. Curtice on Beau Donald 73d 187359; eighth, Cargill & MacMillan on Privateer 2d 182133.

Junior bull calf—First, O. Harris on Goodenough 10th 184569; second, W. H. Curtice on Beau Donald 77th 189560; third, Brown & Fletcher on Sir Thomas 184789; fourth, W. S. Van Natta & Son on Don Irving 187558; fifth, S. L. Brock on Disturber 2d 187340; sixth, M. C. McGuire on Perfection Still 183294; seventh, O. Harris on Donald 14th 184568.

Cow 3 years old or over—First, W. S. Van Natta & Son on Lorna Doone 94479; second, W. H. Curtice on Belle Danold 44th 109865; third, W. H. Curtice on Belle Donald 59th 125799; fourth, H. N. Thompson on Cherry Pie 8th 102356; fifth, O. Harris on Lucile 2d 119938; sixth, O. Harris on Russit 73664; seventh, S. W. Anderson on Anita 2d 120510.

Cow or heifer 2 years old and under 3—First, O. Harris on Amelia 140758; second, O. Harris on Tess 134696; third, Cargill & MacMillan on Heliotrope 159451; fourth, W. S. Van Natta & Son on La Belle 2d 138959; fifth, W. H. Curtice on Belle Donald 60th; sixth, Cargill & MacMillan on Chancy 126195; seventh, Mrs. C. S. Cross on Royalty 4th 154406; eighth, Avery & Hines on Retta 2d 152879.

Senior yearling heifer—First, O. Harris on Arminta 4th 159982; second, O. Harris on Iva 4th 156713; third, S. W. Anderson on Alexia 153298; fourth, Mrs. C. S. Cross on Truelove 154409; fifth, H. N. Thompson on I'm a Peach 159019; sixth, H. N. Thompson on Lady Helper 159021.

Junior yearling heifer—First, O. Harris on Miss Donald 5th 159988; second, O. Harris on Miss Donald 3d 159996; third, W. H. Curtice on Belle Donald 76th 162627; fifth, W. S. Van Natta & Son on Lady March On 173022; sixth, W. H. Curtice on Belle Donald 77th 162628; seventh, Avery & Hines on Java Fippa 159118; eighth, Avery & Hines on Belle Donald 170193.

Senior heifer calf—First, O. Harris on Purple Leaf 2d 179248; second, Cargill & MacMillan on Golden Locks 182127; third, Cargill & MacMillan on Golden Lassie 182128; fourth, W. S. Van Natta & Son on Onward's Elsie 189510; fifth, W. H. Curtice on Belle Donald 86th 187365; sixth, H. N. Thompson on Opera Girl 175873; seventh, S. W. Anderson on Isabelle 189356; eighth, W. H. Curtice on Belle Donald 85th 187364.

Junior heifer calf—First, O. Harris on Miss Donald 17th 184573; second, O. Har-

ris on Miss Donald 18th 184574; third, W. S. Van Natta & Son on Lorna Lass 187560; fourth, H. J. Fluck on Evangaline 190227; fifth, O. Harris on Miss Donald 21st 184577; sixth, Cargill & MacMillan on Charlotte 2d 182123; seventh, S. W. Anderson on Infelice 189355.

Senior sweepstakes bull, 2 years old or over—W. S. Van Natta & Son on Prime Lad.

Junior sweepstakes bull under 2 years old—S. L. Brock on Rare Lad. Senior sweepstakes cow or heifer 2 years old or over—W. S. Van Natta & Son on Lorna Doone.

Junior sweepstakes heifer under 2 years old—O. Harris.

Aged herd—First and fourth, O. Harris; second, W. S. Van Natta & Son; third, W. H. Curtice; fifth, S. W. Anderson.

Young herd—First and second, O. Harris; third, W. H. Curtice; fourth, W. S. Van Natta & Son; fifth, H. N. Thompson.

Two animals, either sex, produce of one cow—First and second, W. H. Curtice; third and fifth, O. Harris; fourth, Avery & Hines.

Four animals of either sex, get of one sire—First and second, W. H. Curtice; third, O. Harris.

GALLOWAY.

Exhibitors.—C. N. Moody, Atlanta, Mo.; C. E. Clark, St. Cloud, Minn.; Brookside Farm Co., Ft. Wayne, Ind.; E. H. White, Estherville, Iowa; J. E. Bales & Son, Stockport, Iowa; O. H. Swigart, Champaign, Ill.; C. S. Hechtner, Princeton, Ill.; G. W. Lindsay, Red Cloud, Neb.; Minnesota Experiment Station, St. Anthony Park, Minn.

Bull 3 years old or over—First, C. E. Clarke on Imp. Worthy 3d 21228; second, O. H. Swigart on Mackenzie of Lochent 18782; third, O. H. Swigart on Imp. Camp Follower of Steptord 23512; fourth, Brookside Farm Co. on Scottish Standard 1st 18538.

Bull 2 years old or over—First, G. W. Lindsay on Pat Ryan of Red Cloud 20038; second, C. S. Hechtner on Starlight of Thorniehill 23534; third, Brookside Farm Co. on Two in One 19776; fourth, O. H. Swigart on Grandmaster 23317.

Bull 1 year old and under 2—First, C. E. Clarke on Cardonald 23118; second, O. H. Swigart on Scottish Samson Imp. 23542; third, Brookside Farm Co. on Standard Challenger 22728; fourth, Minn. Exp. Station on Ronald McDougal 23081; fifth, O. H. Swigart on Stately Boy of Thorniehill 23537; sixth, E. H. White on Banker of White Farm 24374.

Bull under 1 year old—First, C. E. Clarke on Mosstroper 5th 24827; second, Brookside Farm Co. on Star of Brookside 23338; third, O. H. Swigart on Pride's Druid 24882; fourth, E. H. White on Gilt Edge 24871.

Cow 3 years old or over—First, C. N. Moody on Paragon 15051; second, C. E. Clarke on Favorite 16th of Lockent 21205; third, Brookside Farm Co. on Lady Harden 4th of Tarbroech 19070; fourth, O. H. Swigart on Norma 3d of Avondale 15192; fifth, E. H. White on Gentle Annie A. 15417.

Heifer 2 years old and under 3—First, C. N. Moody on Evalene 2d of Avondale 20102; second, O. H. Swigart on Druid's Pride 20121; third, C. N. Moody on Gladys M. 20297.

Heifer 1 year old and under 2—First, O. H. Swigart on Lutie Lake 2d 22759; second, Brookside Farm Co. on Adella of Brookside 22716; third, C. E. Clarke on Lady Harden of Meadow Lawn 23106; fourth, Brookside Farm Co. on Scottish Empress 22715; fifth, E. H. White on Anntita of White Farm 24372.

Heifer under 1 year old—First, C. E. Clarke on Lady Charlotte 24814; second, C. E. Clarke on Lady Belle 2d 24817; third, C. N. Moody on Follow Moody 24656; fourth, C. Hechtner on Pride of Maples 23437; fifth, O. H. Swigart on Lutie Lake 3d 24878; sixth, C. E. Clarke on Lady May 2d 24819.

Senior champion male—C. E. Clarke on Imp. Worth 3d.

Junior champion male—C. E. Clarke on Mosstroper.

Senior champion female—C. N. Moody on Evalene 2d.

Junior champion female—O. H. Swigart on Lutie Lake.

Exhibitor's herd—First, C. E. Clarke; second, C. N. Moody; third, O. H. Swigart; fourth, Brookside Farm Co.

Breeder's young herd—First, C. E. Clarke; second, Brookside Farm Co.; third, O. H. Swigart; fourth, E. H. White.

Produce of one cow—two animals of either sex, any age—First and third, Brookside Farm Co.; second, C. E. Clarke; fourth, E. H. White; fifth, O. H. Swigart; sixth, C. N. Moody.

Get of one sire—four animals of either sex—First, Brookside Farm Co.; second, C. E. Clarke; third, O. H. Swigart; fourth, E. H. White.

RED POLLED.

Exhibitors.—J. J. Chambers, Sadorus, Ill.; Frank H. Hawley, LeRoy, Ohio; J. H. Crowder & Son, Bethany, Ill.; Andrew Bros., Cedarville, Ohio; A. B. Moore, Campbell's Port, Wis.; Geo. H. Smith, Chillicothe, Ohio.

Bull 3 years old or over—First, J. H. Crowder & Son on Falstaff 3d 8125; second, Andrew Bros. on Demon 5421; third, Geo. H. Smith on Pocatella 5771; fourth, J. J. Chambers on General Shafter 6239; fifth, Frank H. Hawley on Eclipse 9220.

Bull 2 years old and under 3—First, Geo. H. Smith on Rowdy Rod 12733; second, J. H. Crowder & Son on Best Goods 10050; third, J. J. Chambers on King B. 9445; fourth, Andrew Bros. on King Henry 10557.

Bull 2 years old and under 3—First, Geo. H. Smith on Water Boy 12735; second, Andrew Bros. on Money Maker 11775; third, Fred H. Hawley on Balzac; fourth, J. J. Chambers on Turner 12345; fifth, Andrew Bros. on Nonine 10739.

Bull calf under 1 year old—First, J. H. Crowder & Son on Logan 11855; second, Geo. H. Smith on Hallstrom 12736; third, Andrew Bros. on Buffalo Bill 11304; fourth, Andrew Bros. on Lover Herrick 11647; fifth, Frank H. Hawley on Universal 12351.

Cow 3 years old or over—First, Frank H. Hawley on Aurella 17924; second, J. H. Crowder & Son on Dew 3d 16484; third, Geo. H. Smith on Anne Dorre 16113; fourth, Frank H. Hawley on Pert 10620; fifth, Geo. H. Smith on Priceless 12808.

Heifer 2 years old and under 3—First, Frank H. Hawley on Jessie 18612; second,

DIAMONDS AND WATCHES ON EASY PAYMENTS. YOU Know That Christmas makes a big demand for Watches. Mothers buy them for sons and daughters; husbands buy them for wives; brothers and sisters buy them for each other; lovers buy them for sweethearts. Many make the mistake of buying a cheap watch, because just at Christmas time the demands upon their fund of ready money is very heavy. You need not make this mistake—read on. The \$4.95 that you would pay for a cheap Swiss or American watch in a worthless case, will buy and bring immediate delivery of an Elgin, Loftis, Waltham, Illinois or Duober-Hampden movement in a solid 14kt gold case, or in the finest gold filled case, guaranteed for 20 or 25 years. How! Read on. Write today for our illustrated Catalogue of Watches and Diamonds, and from it select the particular watch that you would like to wear or present to someone at Christmas. It will be sent to you promptly for examination; then, if you are entirely pleased with it and find it just as represented, pay one-fifth of the price and send the balance to us in eight equal monthly payments. We trust you absolutely. The merits of our goods and the liberality of our terms and methods, makes it a perfectly safe proposition to do business with honest people no matter how far away they may be. makes it just as easy for you to get a fine reliable watch, as it is to get a cheap, trashy affair that you would not carry yourself, and which you could not give to a friend, relative or loved one, without having your regard and business judgment seriously questioned. You can place your order with us for a Watch, Diamond, or any piece of fine jewelry, and feel perfect confidence in every feature of the transaction. We are the largest house in the business and one of the oldest (Est. 1858). Here is the best proof of responsibility and reliability that a business house can possibly have. Read on. The Gold Medal has been awarded to the Loftis system by the Superior Jury at the St. Louis Exposition. This is the highest endorsement possible, and such the official stamp of approval, of the greatest exposition ever held, upon our goods, prices, terms and business methods. We won the Gold Medal in spite of strong competition from foreign and domestic houses, emphasizing more than any other one thing could, our pre-eminence and standing in the Watch and Diamond business. You should write at once for a copy of our Beautiful Christmas Catalogue. It will show you how to make \$5 or \$10 do the work of a hundred dollars in Christmas shopping. Please write today and make your selection before the overwhelming Christmas rush begins. LOFTIS BROS. & CO. Diamond Cutters and Watch Merchants Dept. P 209, 92 to 98 State Street. CHICAGO, ILL. Note—It costs you nothing to see our goods, for we pay all Express charges.

J. H. Crowder & Son on Diana 22502; third, J. J. Chambers on Sadorus 20461. Heifer 1 year old and under 2—First, Geo. H. Smith on Miss Gay 22612; second, Andrew Bros. on Golden Rod 19691; third, Geo. H. Smith on Wild Rose 22565; fourth, Andrew Bros. on Aurilla 19213; fifth, J. H. Crowder & Son on Eva Falstaff 2d 21155; sixth, J. J. Chambers on Haughty 22495. Heifer calf under 1 year old—First, J. H. Crowder & Son on Eva Falstaff 3d 21156; second, Geo. H. Smith on Dawdoff 22567; third, J. J. Chambers on Newdrop 4th 22496; fourth, Andrew Bros. on Neva 21759; fifth, Andrew Bros. on Nest Egg 21758; sixth, Frank H. Hawley on Affectionate 20697; seventh, Geo. H. Smith on Highborn Lady 22568. Senior champion male—Geo. H. Smith on Rowdy Rod. Junior champion male—Geo. H. Smith on Water Boy. Senior champion female—Frank H. Hawley on Aurella. Junior champion female—Geo. H. Smith on Miss Gay. Exhibitor's herd—First, Frank H. Hawley; second, J. H. Crowder & Sons; third and fourth, Andrew Bros. Breeder's young herd—First, Geo. H. Smith; second, Andrew Bros.; third, Frank H. Hawley. Produce of one cow, two animals, either sex—First, J. H. Crowder & Son; second and fifth, Geo. H. Smith; third, F. H. Hawley; fourth, Andrew Bros. Get of one sire, four animals of either sex—First, Geo. H. Smith; second, Frank H. Hawley; third and fifth, Andrew Bros.; fourth, J. H. Crowder & Sons.

POLLED DURHAMS.

Exhibitors.—Fletcher S. Hines, Malott Park, Ind.; Oscar Hadley, Plainfield, Ind.; J. H. Jennings, Streeter, Ill.; A. C. Wood & Sons, Pendleton, Ind.; J. H. Martz, Greenville, Ohio; J. N. Woods & Son, Gardner, Ill.; Wm. Clark, Kunkle, Ohio; J. H. Miller, Peru, Ind.; John Goodwin, Potomac, Ill.

Bull 3 years old or over—First, A. C. Wood & Sons on Golden Hero 2847; second, Fletcher S. Hines on Tippecanoe 44th 1698; third, Oscar Hadley on Field Marshal 1758; fourth, J. H. Jennings on Milton 1122.

Bull 2 years old and under 3—First, J. H. Martz on Tippecanoe 64th 2593; second, A. C. Wood & Son on Scottish Hero 2965. Bull 1 year old and under 2—First, J. H. Miller on Grand Trojan 3608; second, Oscar Hadley on Windemere Tip 3094; third, Wm. Clark on Spartan Princess 3054.

Bull under 1 year old—First, A. C. Wood & Sons on Roan Hero 3613; second, J. H. Martz on Middleton 6th 3615; third, J. H. Miller on Gallant Victor 3611; fifth, Oscar Hadley on Buttonwood Marshall 10th 3782; sixth, Fletcher S. Hines on Ruby's Tip Vol. 3.

Cow 3 years old or over—First, Fletcher S. Hines on Ruby of Buttonwood, Vol. 2; second, Fletcher S. Hines on Ruby of Buttonwood 2d, Vol. 2; third, J. H. Jennings on Golden Heather, Vol. 2; fourth, J. H. Martz on Marshall As Duchess, Vol.

3; fifth, A. C. Wood & Son on Mamie Marshal 7th, Vol. 3. Heifer 2 years old and under 3—First, J. H. Jennings on Golden Craggs, Vol. 3; second, A. C. Wood & Sons on Emily Craggs 2d, Vol. 3; third, J. H. Martz on Acacia Jane 2d, Vol. 3; fourth, Fletcher S. Hines on Kirklevington of Acacia 3d, Vol. 3. Heifer 1 year old and under 2—First, J. H. Miller on Princess May, Vol. 3; second, J. H. Miller on Lady Abbottsburn, Vol. 3; third, A. C. Wood & Sons on Pride's Princess, Vol. 3; fourth, Fletcher S. Hines on Zaddae, Vol. 3; fifth, J. H. Jennings on Golden Rose 5th, Vol. 3. Heifer 6 months old and under 1 year—First, A. C. Wood & Sons on Hero Maid, Vol. 3; second, J. H. Miller on 11th Miami Victoria, Vol. 3; third, Oscar Hadley on Buttonwood Jennie Lind, Vol. 3; fourth, J. H. Martz on Nonpareil 47th, Vol. 3d. Senior champion male—A. C. Wood & Sons on Golden. Junior champion male—J. H. Miller on Grand Trojan. Senior champion female—Fletcher S. Hines on Ruby of Buttonwood. Junior champion female—J. H. Miller on Princess May. Exhibitor's herd—First, A. C. Wood & Sons; second, J. H. Martz; third, Fletcher S. Hines; fourth, J. H. Jennings. Breeder's young herd—First, J. H. Miller; second, A. C. Wood & Sons; third, J. H. Martz; fourth, Oscar Hadley. Produce of one cow—two animals of either sex, any age—First, Fletcher S. Hines; second and third, A. C. Wood & Sons; fourth, Oscar Hadley.

FAT CATTLE DIVISION.

SHORTHORN.

Exhibitors.—H. J. Sconce, Sidell, Ill.; J. R. Peck & Son, Winchester, Ill.; Wm. Smiley, Malcom, Ill.; Abram Renick, Winchester, Ky.; W. F. Christian, Indianapolis, Ind.; W. D. Flatt, Milgrove, Ont.; Iowa Agricultural College, Ames, Iowa; J. G. Robbins & Son, Horace, Ind.; R. W. Batt & Son, Plymouth, Ill.; F. W. Harding, Waukesha, Wis.; J. T. Johnson, Mexico, Mo.; C. E. Clark, St. Cloud, Minn.; H. S. Bright, Versailles, Ky.; C. A. Saunders, Manilla, Iowa; E. R. Sillmon, Colo, Iowa.

Steer, spayed or martin heifer, 2 years old and under 3—First, Abram Renick on Auditor; second, H. J. Sconce on John L. Sullivan; third, H. J. Sconce on Fairview's Pride; fourth, Wm. Smiley on Always in Fashion; fifth, H. J. Sconce on Snowflake.

Steer, spayed or martin heifer, 1 year old and under 2—First, W. D. Flatt on Trout Creek Wanderer; second, W. F. Christian & Son on Pluto; third, H. J. Sconce on White Hampton; fourth, Abram Renick on My Man; fifth, Iowa Agricultural College on Cyclone.

Steer, spayed or martin heifer under 1 year old—First, H. J. Sconce on Madden's Choice; second, J. R. Peck & Son on Strawberry; third, H. J. Sconce on White Marengo; fourth, D. R. Hanna on

Sun Ray; fifth, Abram Renick on Ensign. Champion steer, spayed or martin heifer—Abram Renick on Auditor.

Lot of three head, owned by one exhibitor—First, Abram Renick; second, H. J. Sconce.

SHORTHORN ASSOCIATION SPECIALS.

Senior calf, steer, spayed or martin heifer—H. J. Sconce on Madden's Choice; second, J. R. Peak & Son on Strawberry;

Junior calf, steer, spayed or martin heifer—First, D. R. Hanna on Sun Ray; second, J. R. Peak & Son on White Boy.

ABERDEEN-ANGUS.

Exhibitors.—A. C. Binnie, Alta, Iowa; D. Bradfute & Son, Cedarville, Ohio; Otta G. Callahan, Helena, Ky.; M. A. Judy, Beecher, Ill.; Lew Kerr, Newton, Ind.;

Steer, spayed or martin heifer, 2 years old and under 3—First, Minn. Exp. Station on Clear Lake Jute 2d 1249; second, Stanley R. Pierce on Kid Eclipse 1263;

Steer, spayed or martin heifer, 1 year old and under 2—D. Bradfute & Son on Duce of Meadow Brook 1285; second, Stanley R. Pierce on Lucky Boy 1293;

Steer, spayed or martin heifer, under 1 year—First, S. R. Pierce on Ruby Zenoleum 1341; second, Parker Parish & Miller on Sunflower Advance 1308;

Champion steer, spayed or martin heifer—Minnesota Experiment Station on Clear Lake Jute.

Lot of three head, owned by one exhibitor—First, S. R. Pierce; second, M. P. & S. E. Lantz; third, M. A. Judy; fourth, Lew Kerr; fifth, Otto G. Callahan.

HEREFORD.

Exhibitors.—Minnesota Experiment Station, St. Anthony Park, Minn.; Mrs. C. S. Cross, Emporia, Kans.; H. J. Fluck, Goodenow, Ill.; S. J. Peabody, Columbia City, Ind.;

Steer, spayed or martin heifer, 2 years old and under 3—First, H. J. Fluck on Fluck's Proxy; second, O. Harris on Goldsmith 173555; third, S. L. Buck on Fine Lad 146740;

Steer, spayed or martin heifer, 1 year old and under 2—First, H. J. Fluck on Fluck's Expectation 159677; second, O. Harris on Sandy 16002; third, S. L. Buck on Silver Lad; fourth, J. H. & J. L. Van Natta on Cherry Lad 173752; fifth, Mrs. C. S. Cross on Lydos.

Steer, spayed or martin heifer, under 1 year—First, Iowa Agricultural College on General Manager (Holtsland Perfection) 176624; second, J. H. & J. L. Van Natta on Hugo 177396; third, O. Harris on Goodenough 6th 179241; fourth, Purdue University on Indian Lad; fifth, S. L. Brock on Best Lad 178367; sixth, H. J. Fluck on Nabob Zenoleum.

Champion steer, spayed or martin heifer—H. J. Fluck on Fluck's Expectation.

Lot of three head, owned by one exhibitor—First, H. J. Fluck; second, O. Harris; third, S. L. Brock; fourth, B. & W. George; fifth, Mrs. C. S. Cross.

GALLOWAY.

Exhibitors.—O. H. Swigart, Champaign, Ill.; Iowa Experiment Station, Ames, Iowa; E. H. White, Estherville, Iowa; Purdue University, Lafayette, Ind.;

Steer, spayed or martin heifer, 2 years old and under 3—First, O. H. Swigart on Glen Rosa's King 20763.

Steer, spayed or martin heifer, 1 year old and under 2—First, O. H. Swigart on Swigart Champion 22788; second, Purdue University on Melroy; third, Iowa Experiment Station on Shaggy Jack 25100;

Steer, spayed or martin heifer, under 1 year—First, C. E. Clarke on Black Joe; second, O. H. Swigart on Teddy 24877; third, O. H. Swigart on Spot 24878; fourth, O. H. Swigart on Druid 10th 24907.

Steer, spayed or martin heifer—O. H. Swigart on Glen Rosa's King.

Lot of three head, owned by one exhibitor—First, O. H. Swigart.

RED POLLED.

Exhibitors.—O. H. Swigart, Champaign, Ill.; Andrew Bros., Cedarville, Ill.; J. J. Chambers, Sadorus, Ill.; F. B. Turnbull, Cedarville, Ohio.

Steer, spayed or martin heifer, 2 years old and under 3—First, G. H. Crowder & Son on Fame 10341; second, F. B. Turnbull on Pompy 3397; third, Andrew Bros., on Bruce 12720.

Steer, spayed or martin heifer, 1 year old and under 2—First, J. H. Crowder & Son on Superior 11058; second, F. B. Turnbull on Clem 3398; third, Andrew Bros., on Scott 11002; fourth, J. H. Crowder & Son on Abe 11171; fifth, Andrew Bros., on Dandy 12719.

Steer, spayed or martin heifer—J. H. Crowder & Son on Fame.

Lot of three head, owned by one exhibitor—First, J. H. Crowder & Son; second, F. B. Turnbull.

POLLED BURHAM.

Exhibitors.—Fletcher S. Hines, Malott Park, Ind.; Wm. Clark, Kunkle, Iowa; Wm. Tossey, Maryville, Ohio; Andrew Bros., Cedarville, Ohio; J. H. Crowder & Son, Bethany, Ill.;

Steer, spayed or martin heifer, 2 years old and under 3—First, Wm. Clark on Lady Alpin 2d, Vol. 3; second, Fletcher S. Hines on Rose's Knight 2d 2342.

Steer, spayed or martin heifer, 1 year old and under 2—First, Fletcher S. Hines on Village Knight 2380; second, Oscar Hadley on Buttonwood Dick 3619.

Steer, spayed or martin heifer, under 1 year old—First, Fletcher S. Hines on Ruby's Knight 3620; second, Wm. Clark on Red Bud.

Steer, spayed or martin heifer—Fletcher S. Hines on Ruby's Knight 3620.

Lot of three head, owned by one exhibitor—First, Fletcher S. Hines; second, Wm. Clark.

GRADES AND CROSS-BREDS.

Exhibitors.—Iowa Experiment Station, Ames, Iowa; Minnesota Experiment Station, St. Anthony Park, Minn.; Purdue University, Lafayette, Ind.;

Steer, spayed or martin heifer, 2 years old and under 3—First, Purdue University on Flashlight; second, University of Nebraska on Challenger 2d; third, H. J. Fluck on George Baker; fourth, Jas. Leask on Champion Knight; fifth, Iowa Experiment Station on Zenoleum Lad.

Steer, spayed or martin heifer, 1 year old and under 2—First, W. J. Miller on Victor Zenoleum; second, S. L. Brock on Little Joe; third, S. Melvin on Improver; fourth, A. B. Futerbaugh on Oaklawn's Modie; fifth, University of Nebraska on Stanton.

Steer, spayed or martin heifer, under 1 year—First, Iowa Experiment Station on Tama Jim; third, F. E. A. Albright on Jane Eyre; fourth, G. H. Hoxie on Jack; fifth, C. E. Clarke on Perfection.

Steer, spayed or martin heifer, calved between Sept. 1, 1903, and Jan. 1, 1904—First, S. L. Brock on Scotch Highball; second, I. W. Coon, Jr., on Shoney Boy; third, S. R. Pierce on Andy; fourth, O. H. Swigart on The Zenoleum Gambler; fifth, Iowa Experiment Station of Fyffes Choice.

Steer, spayed or martin heifer, calved since Jan. 1, 1904—First, Iowa Experiment Station on King Edward; second, Minnesota Experiment Station on Zen Zen; third, A. R. Haven on Big Boy; fourth, J. R. Peak & Son on Joy; fifth, Mrs. Kate W. Cross on Jimmy.

Champion steer, spayed or martin heifer—Purdue University on Flashlight.

Lot of three head, owned by one exhibitor—First, S. L. Brock; second, Iowa Experiment Station; third, W. J. Miller; fourth, A. C. Huxley; fifth, I. W. Coon.

SHORTHORN SPECIALS.

Steer, spayed or martin heifer, 2 years old and under 3—First, Purdue University on Flashlight; second, James Leack on Champion Knight.

Senior yearling steer, spayed or martin heifer—First, Iowa Experiment Station on Leonard's Choice; second, William Smiley on Trix; third, Iowa Experiment Station on Bobby Burns; fourth, J. R. Peak & Son on Cuning Horn; fifth, Mart L. McCoy on Prince.

Spayed or martin heifer—First, Iowa Experiment Station on Tama Jim; second, Iowa Experiment Station on Miss Skinner; third, J. R. Peak & Son on Tip Top; fourth, J. W. Palmer & Son on Hopeful Lad; fifth, W. H. Dunwoody on Blue Ribbon.

Senior calf steer, spayed or martin heifer—First, Iowa Experiment Station on Fyffes Choice; second, Iowa Experiment Station on Buckler's Choice; third, J. R. Peak & Co., on Troy; fourth, William Smiley on Arc Light; fifth, C. E. Clarke on Jimmie.

Junior calf, steer, spayed or martin heifer—First, Iowa Experiment Station on King Edward; second, Minnesota Experiment Station on Zen Zen.

Champion steer, spayed or martin heifer—Purdue University on Flashlight.

Steer herd—First, J. R. Peak & Son; second, William Smiley. The latter protested the decision.

ABERDEEN-ANGUS SPECIALS.

Steer or spayed heifer, 2 years old and under 3—Iowa Experiment Station on Zenoleum Lad.

Steer or spayed heifer—W. J. Miller on Victor Zenoleum.

Steer or spayed heifer, under 1 year old—W. J. Miller on Threapeas.

Champion steer or spayed heifer—W. J. Miller on Victor Zenoleum.

Lot of three head, owned by one exhibitor—W. J. Miller.

HEREFORD SPECIALS.

Steer, spayed or martin heifer, 2 years old and under 3—First, University of Nebraska on Challenger 2d; second, H. J. Fluck on George Baker; third, A. C. Huxley on Rose Chief; fourth, S. L. Brock on Dan; fifth, G. W. Harness on Fairbanks.

Steer, spayed or martin heifer, 1 year old and under 2—First, S. L. Brock on Little Joe; second, A. R. Haven on Rose

Boy; third, University of Nebraska on Starion; fourth, A. C. Huxley on Cracker Jack; fifth, Mrs. C. S. Cross on Billy.

Steer, spayed or martin heifer, under 1 year old—First, F. E. A. Albright on Jane Eyre; second, F. E. A. Albright on Fuller; third, G. H. Hoxie on Jack.

GALLOWAY GRADE AND CROSS-BRED SPECIALS.

Best steer, spayed or martin heifer, over 18 months old—Iowa Experiment Station on Reliance.

Best steer, spayed or martin heifer, under 18 months old—C. E. Clark on Perfection.

ANY BREED PURE BRED GRADE OR CROSS.

Three steers, spayed or martin heifer, under 3 years old, get of one sire—First, S. L. Brock; second, Iowa Experiment Station; third, W. J. Miller.

CHAMPIONS BY AGES.

Champion steer, spayed or martin heifer, 2 years old and under 3—First, Minnesota Experiment Station on Clear Lake Jute 2d; reserve, Purdue University on Flashlight.

Champion steer, spayed or martin heifer, 1 year old and under 2—First, H. J. Fluck on Fluck's Expectation; reserve, Iowa Experiment Station on Tama Jim.

Champion steer, spayed or martin heifer, under 1 year old—S. R. Pierce on Ruby Zenoleum.

Champion lot of three head of the show—S. R. Pierce.

ABERDEEN-ANGUS ASSOCIATION SPECIALS.

Champion steer, spayed or martin heifer, 2 years old and under 3—Minnesota Experiment Station on Clear Lake Jute 2d.

Champion steer, spayed or martin heifer, 1 year old and under 2—First, D. Bradfute & Son on Duce of Meadow Brook; reserve, W. J. Miller on Victor Zenoleum.

Champion steer spayed or martin heifer, under 1 year old—S. R. Pierce on Ruby Zenoleum.

Champion lot of three head of the show—Minnesota Experiment Station on Clear Lake Jute 2d.

DRESSED CARCASSES.

Exhibitors.—Funk Bros. Seed Co., Bloomington, Ill.; D. Bradfute & Son, Cedarville, Ohio; W. J. Miller, Metz, Iowa; B. & W. George, Aurora, Ill.;

Carcass of steer, spayed or martin heifer, 1 year old and under 2—First, Iowa Agricultural College; second, C. E. Clarke; third, Palmer & Palmer; fourth, C. E. Clarke; fifth, R. W. Batts & Son.

Champion carcass—Funk Bros.

FAT CATTLE CAR-LOAD AWARDS.

GRAND CHAMPIONSHIP.

Augus—Exhibited by Claus Krambeck, Marne, Iowa.

NORTH CENTRAL DISTRICT.

Three years old or over—First and second, Funk Bros., on Herefords; third, E. J. Bell on Herefords.

SOUTH CENTRAL DISTRICT.

One year old and under 2—First, C. C. Judy on Herefords; second, E. P. Ryan on Angus; third, J. D. Rogers on Herefords.

SOUTHWESTERN DISTRICT.

Two years old and under 3—First, W. D. Black on Herefords; second, L. H. Kerrick on Angus; third, J. F. Keister on Herefords.

One year old and under 2—First, Jacob Rupel on Herefords; second, J. B. Camp on Texas Herefords; third, Jacob Rupel on Herefords.

SOUTHERN DISTRICT.

One year old and under 2—First, Steiner Bros., on Herefords; second, J. G. Imboden on Herefords.

Three years old and over—First, M. Sansom, Jr.

EASTERN DISTRICT.

Three years old and over—First, F. Morrison on Shorthorns; second, C. F. Brown on Shorthorns; third, R. E. & A. L. Hill on Shorthorn mixed.

Two years old and under 3—First, Claus Krambach on Angus; second, L. H. Kerrick on Angus; third, Funk Bros., on Angus.

One year old and under 2—First, C. Escher on Angus; second, W. F. Herrin on Herefords; third, L. H. Kerrick on Angus.

FAT COWS AND HEIFERS.

Carload of heifers under 3 years old—First, W. F. Herrin on Herefords; second, W. C. White on Shorthorns.

Carload of cows, 3 years old or over—First, W. J. Miller on Angus.

CHAMPIONS BY AGES.

Three years old or over—F. Morrison on Shorthorns.

Two years old and under 3—Claus Krambeck on Angus.

One year old and under 2—Charles Escher on Angus.

SHORTHORN SPECIALS.

Awarded to J. D. Waters, Dawson, Ill. Calves—J. D. Waters.

Grand champion 3-year-olds, eastern district—F. Morrison on Shorthorns.

Grand championship steer—J. D. Waters.

Two years old—First, M. F. Dunlap.

One year old and under 2—First, J. D. Waters; second, G. Chandler; third, W. R. Lead.

ANGUS SPECIALS.

One year old—First, Charles Escher; second, E. P. Hall; third, L. H. Kerrick; fourth, J. W. Sharg; fifth, C. Escher; sixth, F. P. Brown.

Two-year-old steers—First, C. Kram-

KENDALL'S SPAVIN CURE. Used 100 Bottles. When a man uses that many bottles of a remedy it should be accepted as a guarantee of excellence. Others have found that Kendall's Spavin Cure is a swift and sure cure for Spavins, Ringbones, Curbs, Splints and all forms of lameness.

CARE of HOGS. A new illustrated book on how to keep hogs free from LICE, WORMS and SCURVY, PROTECT FROM DISEASE and bring to early maturity at small cost. Contains illustration of hog-dipping plant and many suggestions of value. MAILED FREE on request. WRITE FOR IT TO-DAY. Address MOORE C. & M. CO. 1501 Genesee St. Kansas City, Mo.

LIMESTONE VALLEY FARM. The home of the largest and best herd of registered Jacks and Jennets in the United States. Won 70 prizes at the great World's Fair, including every champion and grand champion and every first prize in all classes except three. Also saddle stallions for sale. Come and see us and we will treat you right. L. M. MONSEES & SONS, Smithton, Pettis County, Mo.

PINK EYE CURE FOR HORSES AND CATTLE. Sure relief for Pink Eye, foreign irritating substances, clears the eyes of Horses and Cattle when quite milky. Sent to responsible stockmen on 30 days trial, or sent prepaid for the price, \$1.00. Address orders to W. O. THURSTON, Elmdale, Kansas.

The Stray List. For Week Ending November 24. McPherson County—B. Harms, Clerk. MARE—Taken up by B. Reichert, in King City tp., Oct. 29, 1904, one gray mare, branded "J. C." on left shoulder; valued at \$20. Week Ending December 1. Coffey County—W. M. Palen, Clerk. BULL CALF—Taken up by Harry F. Povernire, in Liberty tp. (P. O. Route 1, Gridley), October 19, 1904, one red and white bull calf, about 3 months old, large red spot on nose; bush of tall white. Rawlins County—H. W. Robertson, Clerk. STEER—Taken up by J. F. Steele, in Beaver tp. (P. O. Blakeman), November 16, 1904, one dark red steer, 2 years old, weight about 550 pounds; valued at \$18. Chase County—J. E. Bocoock, Clerk. STEER—Taken up by C. D. Arnold, in Falls tp. (P. O. Cottonwood Falls), Nov. 8, 1904, one 3-year-old red steer with white face, dehorned, branded L on left shoulder, crop in both ears; valued at \$40. Wabaunsee County—Simeon C. Smith, Clerk. SOW—Taken up by John Zeller, in Newbury tp. (P. O. Paxico), Oct. 24, 1904, one white sow, weight about 350 pounds; valued at \$15. Week Ending Dec. 8. Greenwood County—C. D. Pritchard, Clerk. STEER—Taken up by A. R. Tomlinson, in Twin Grove tp. (P. O. Greenwood), November 16, 1904, one 4-year-old dard-red, white faced steer, P on left hind leg; valued at \$50.

beck; second and third, L. H. Kerrick; fourth, Funk Bros.; fifth, Robert Blakey; sixth, M. F. Dunlap.  
Grand champion 2-year-olds — Claus Krambeck on Angus.  
Grand champion yearlings — Charles Escher on Angus.

**HEREFORD SPECIALS.**

Two years old and over—First, D. W. Black; second, J. F. Keister; third, G. Clay.  
Under 2 years old—First, G. Clay; second, W. F. Herrin; third, Steiner Bros.  
X. I. T. SPECIALS.  
First, L. H. Kerrick; second and third, J. F. Keister.

**FEEDING CLASSES AWARDS.**

**GRAND CHAMPIONSHIP.**

Swenson Bros., Stamford, Texas.

**NORTH CENTRAL DISTRICT.**

Two year and under—First, W. S. Vance; second, Fetterman Hereford Co.; third, H. T. Gray.  
One year and under 2—First, W. S. Vance; second, Bollomington L. and L. S. Co.  
Under 1 year—First, Fetterman Hereford Company; second, W. Reynolds; third, E. L. Patrick.  
One year and under—First, F. W. Graham; second, F. W. Bart; third, F. W. Arabarn.

Two years and under 3—First, E. H. Grubb.

**SOUTHWESTERN DISTRICT.**

Two years and under 3—First, Swenson Bros.; second and third, Colonel C. C. Slaughter.  
One year and under 2—First, Red River V. Co.; second, Swenson Bros.; third, Red River V. Co.  
Under 1 year—First, Swenson Bros.; second, L. S. Ranch Co.; third, Fowler & Todd.

**SOUTHERN DISTRICT.**

One year and under 2—First, J. E. B. Scott; second and third, same.  
Under 1 year—First and third, J. E. B. Scott; second, E. M. Stephens.

**CHAMPIONS BY AGES.**

Two years and under 3—First, E. H. Grubb; second, W. S. Vance; third, Swenson Bros.  
One year and under 2—First, F. W. Graham; second, Red River V. Co.; third, W. S. Vance.  
Under 1 year—First, Swenson Bros.; second, Fetterman Hereford Co.; third, J. E. B. Scott.

**HEREFORD SPECIALS.**

North Central District—First, Fetterman Hereford Co.; second, W. S. Vance.  
Southwestern District—First, Swenson Bros.; second, Red River V. Co.  
Southern District—First and second, J. E. B. Scott.  
Special grand championship—Swenson Bros.

**COLLEGE AND EXPERIMENT STATION STOCK.**

Special No. 1—Steer, spayed or martin heifer, over 24 months old and under 36 months—First, Minnesota Experiment Station on Clear Lake Jute; second, Purdue University on Flashlight; third, University of Nebraska on Challenger 2d; fourth, Iowa Agricultural College on Zenoleum Lad; reserve, Iowa Agricultural College on Reliance.

Special No. 2—Steer, spayed or martin heifer, 12 months old and under 24 months—First, Iowa Agricultural College on Tama Jim; second, University of Nebraska on Stanton; third, Iowa Agricultural College on Miss Skinner; fourth, Purdue University on Melroy.

Special No. 3—Steer, spayed or martin heifer, under 12 months old—First, Iowa Agricultural College on General Manager; second, Purdue University on Indiana Lad; third, Iowa Agricultural College on Fyffe's Choice; fourth, Minnesota Experiment Station on Zen Zenoleum.

Special No. 4—Champion spayed or martin heifer — Minnesota Experiment Station on Clear Lake Jute.

Special No. 5—Best five head of steers, spayed or martin heifer, under 3 years of age—First, Iowa Agricultural College, 45 per cent; second, Minnesota Experiment Station, 35 per cent.

**STOCKMEN'S MEETINGS.**

**Association of Fairs and Expositions.**

Wednesday evening, November 30, at the Grand Pacific Hotel, the American Association of Fairs and Expositions had their annual meeting to elect officers, conduct such business as was to come up, and listen to the address by George McKerrow of Pewaukee, Wis., president of the State Board of Agriculture, on "Concessions, their Character and Limit," and by W. W. Miller of Columbus, Ohio, secretary of the State Board of Agriculture, on "Tickets and Gates," and to the discussions of the members.

From the South and the North, the East and the West, and the Middle West, were members in attendance, and many new ideas were given as to the method of conducting fairs. The different ways of selling tickets and checking the ticket seller, and the giving out of passes, received much attention.

All of the old officers were re-elected with the exception of Vice President J. T. Stucky of Van Wert, Ohio, J. L. Carpenter of Carpenter, Ohio, having the honor of being placed in that position.

As to the date and place of the next annual meeting of the association, that was left to the president and secretary.

Dates of fairs to be held in 1905 by the different States were fixed as follows: Missouri, Aug. 18 to 25; Iowa, Aug. 25 to Sept. 1; Nebraska, Sept. 1 to 8; Minnesota, Sept. 4 to 9; Sioux City, Iowa, Sept. 4 to 9; Ohio, Sept. 4 to 9; Wisconsin, Sept. 11 to 16; Topeka, Kan., Sept. 11 to 16; Indiana, Sept. 11 to 15; Kentucky, Sept. 18 to 23; Hutchinson, Kan., Sept. 18 to 23; Illinois, Sept. 30 to Oct. 7.

**Shorthorn Breeders' Association.**

At the Grand Pacific Hotel Wednesday night members of the American Shorthorn Breeders' Association met to transact such business as was to come up at their annual meeting and to devise plans to further the work of their association. The attendance was large. A paper was



# Richer Milk and More of it

Is well within the control of every dairyman and farmer. Physical vitality in the milch cow, abundant supply and brisk circulation of the blood, together with the perfect assimilation of all rations fed, induces a full flow of rich milk. Any condition in the herd adverse to these essentials shortens the quantity, with many abnormal results as to quality.

## DR. HESS STOCK FOOD

assures the dairyman full measure of health in the herd, with the largest quantity of milk. Dr. Hess Stock Food is not a condimental food. It is a scientific stock tonic and laxative, the prescription of Dr. Hess (M.D., D.V.S.), that compels the system of all animals to convert the maximum amount of nutrition of the food into bone, muscle, meat and milk, and relieves the minor stock ailments.

Dr. Hess Stock Food corrects the danger of over feeding or over eating, prevents indigestion, fever and bloat and the liability to abortion commonly caused by lack of vitality.

**5¢** per pound in 100 lb. sacks, 25 lb. pail \$1.60  
Smaller quantities a little higher. Small dose. { Except in Canada and extreme West and South.

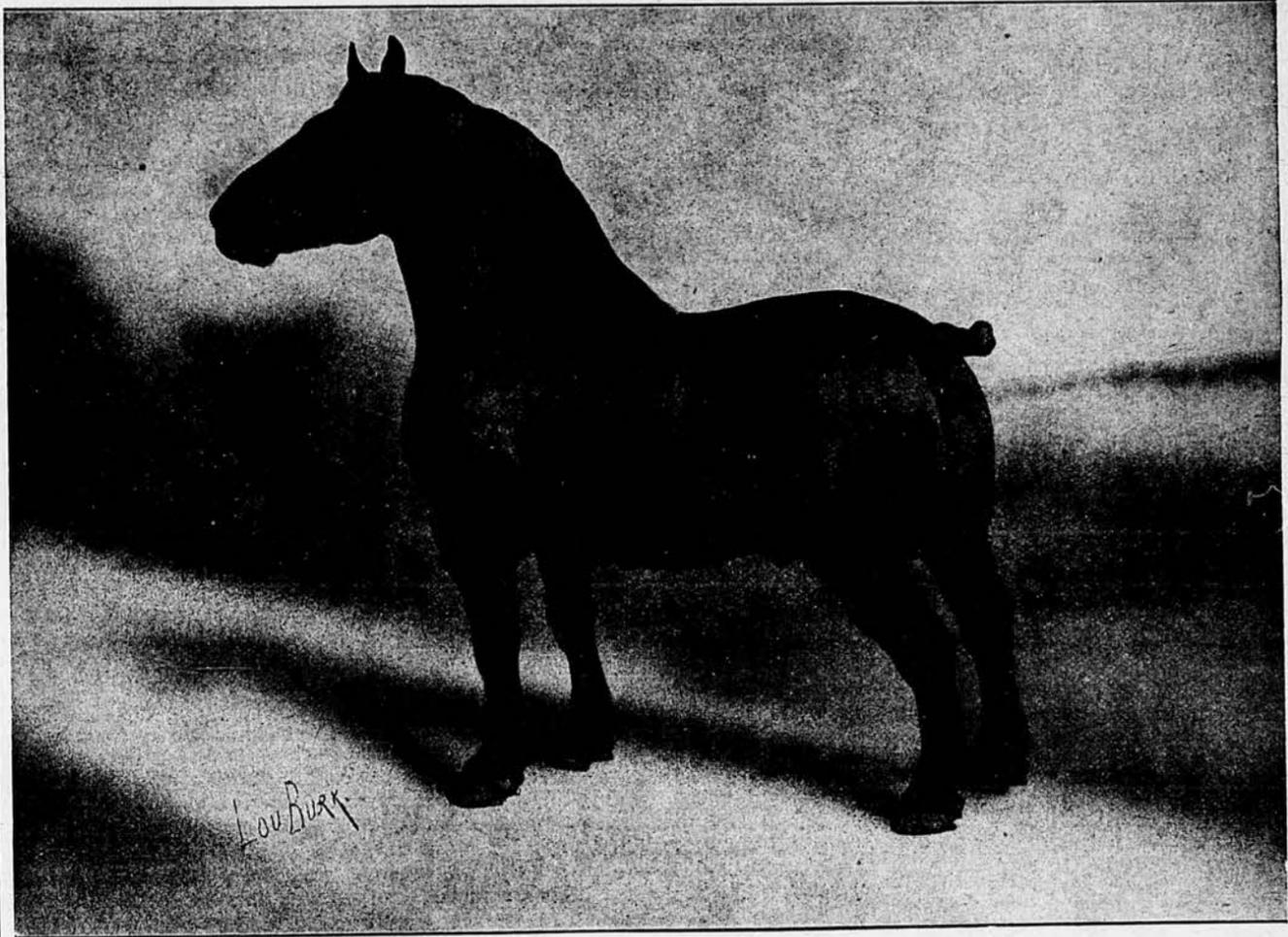
**SOLD ON A WRITTEN GUARANTEE.**

Remember that from the 1st to the 10th of each month, Dr. Hess will furnish veterinary advice and prescriptions free if you will mention this paper, state what stock you have, also what stock food you have fed, and enclose two cents for reply. In every package of Dr. Hess Stock Food there is a little yellow card that entitles you to this free service at any time.

Dr. Hess Stock Book Free, if you will mention this paper, state how much stock you have and what kind of stock food you have used.

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

**Instant Louse Killer Kills Lice**



Iams' Alfort (21682), Royal Belgian, 3 years old, weight 2,040 pounds, first prize-winner Nebraska State Fair and Belgium. One of Iams' "Select 400." Only \$1,400, too. Imported and owned by Frank Iams, St. Paul, Neb.

read by President S. F. Lockridge of Greencastle, Ind., and a few of the members made short talks, after which Treasurer D. K. Smith of Springfield, Ill., and Secretary John W. Groves of Chicago, made their reports, which were received with much satisfaction.

Three new directors were elected, H. F. Hovenkamp of Fort Worth, Texas, being the only new one, H. F. Brown of Minneapolis, and J. F. Prather of Williams-ville, Ill., succeeding themselves.

Date of next annual meeting will later be given to the members, but most likely will be on the middle day of the International show next year.

It was decided to continue usual appropriations for prizes for showing cattle at the International show.

From the report of the secretary it was learned that the number of animals recorded in 1904 was quite pleasing to the association, and that good inroads have been made into new territories with the Shorthorn breeds.

The following statement, signed by President S. F. Lockridge and Secretary John F. Groves, shows the financial condition of the American Shorthorn Breeders' Association for the past year:

RECEIPTS.	
Balance in treasurer's hands.....	\$ 27,028.31
Balance in secretary's hands.....	10.00
Books.....	502.25
Pedigrees.....	55,653.00
Certifying and copying.....	7,948.75
Blanks.....	90.03
Postage.....	12.04
Excess of fees.....	994.17
Interest on bonds.....	2,925.00

Rent Springfield offices.....	510.00
Refund account prizes.....	749.00
Sales entry fees.....	3,715.00
Interest on mortgage account Harvey estate.....	56.00
<b>Total.....</b>	<b>\$100,193.59</b>
EXPENDITURES.	
Pedigrees returned.....	\$ 3,592.00
Certifying and copying returned	418.50
Excess of fees.....	1,134.87
Postage and express.....	1,300.23
Salaries.....	9,864.33
Rent.....	781.00
Stationery.....	911.18
Printing.....	6,239.96
Board expenses.....	1,659.41
Bonds, premiums and express.....	15,881.25
Taxes.....	444.88
Expert bookkeeper.....	50.00
Insurance.....	339.25
Dairy demonstration St. Louis Fair.....	8,653.56
Furniture and fixtures.....	460.48
Prizes.....	25,902.17
Expenses account shows and sales.....	3,815.85
Telegrams and telephones.....	78.39
Ice.....	18.00
Laundry.....	30.00
Private herd registers.....	105.00
Water Supply Company.....	23.27
Membership National Live Stock Association.....	55.00
W. A. Harris, traveling expenses	509.50
Affidavits.....	15.65
Sundries.....	12.56
Balance treasurer's hands.....	7,897.30
<b>Total.....</b>	<b>\$100,193.59</b>

ASSETS.	
Balance in treasurer's hands.....	\$ 7,897.30
Chicago real estate.....	5,500.00
Harvey real estate.....	1,495.54
Office furniture.....	700.00
Books on hand.....	20,781.00
Bonds, \$100,000, present value.....	105,262.50
<b>Total.....</b>	<b>\$141,636.34</b>
LIABILITIES.	
Capital stock.....	\$ 20,000.00
Estimated cost of printing pds. on hand.....	5,000.00
Fair prizes not awarded.....	11,434.50
Surplus.....	105,201.84
<b>Total.....</b>	<b>\$141,636.34</b>

**Shetland Pony Club Meeting.**

The American Shetland Pony Club held its fifteenth annual meeting in the assembly hall of the Pedigree Record building Wednesday. Officers were elected as follows: President, J. J. Milne, Monmouth, Ill.; vice president, Robert Lillburn, Emerald Grove, Wis.; secretary, Mortimer Levering, Chicago. Secretary Levering's report stated that fifteen new members had been enrolled during the past year, bringing the total membership of the club up to 2,000, while the total registration since the organization of the association number 5,500 and five volumes of records have been published. The club was shown to be in a strong financial condition, and members reported a considerably increased volume of business in the past year. The Shetland pony breed-

(Continued on page 1213.)

## The Young Folks

CONDUCTED BY RUTH COWGILL.

### Faithless Sally Brown.

Young Ben he was a nice young man,  
A carpenter by trade;  
And he fell in love with Sally Brown,  
That was a lady's maid.

But as they fetched a walk one day,  
They met a press-gang crew;  
And Sally she did faint away,  
Whilst Ben he was brought to.

The Boatswain swore with wicked words,  
Enough to shock a saint,  
That though she did seem in a fit,  
'Twas nothing but a feint.

"Come, girl," said he, "hold up your head,  
He'll be as good as me;  
For when your swain is in our boat,  
A boatswain he will be."

So when they'd made their game of her,  
And taken off her eif,  
She roused, and found she only was  
A coming to herself.

"And is he gone, and is he gone?"  
She cried, and wept outright;  
"Then I will to the water side,  
And see him out of sight."

A waterman came up to her,  
"Now, young woman," said he,  
"If you weep on so, you will make  
Eye-water in the sea."

"Alas! they've taken my beau Ben  
To sail with old Benbow;"  
And her woe began to run afresh,  
As if she'd said Gee woe!

Says he, "They've only taken him  
To the Tender ship, you see;"  
"The Tender ship," cried Sally Brown,  
"What a hardship that must be!"

"Oh! would I were a mermaid now,  
For then I'd follow him;  
But oh!—I'm not a fish-woman,  
And so I can not swim.

"Alas! I was not born beneath  
The Virgin and the Scales,  
So I must curse my cruel stars,  
And walk about in Wales."

Now Ben had sailed to many a place  
That's underneath the world;  
But in two years the ship came home,  
And all her sails were furled.

But when he called on Sally Brown,  
To see how she went on,  
He found she'd got another Ben  
Whose Christian name was John.

"O Sally Brown, O Sally Brown,  
How could you serve me so?  
I've met with many a breeze before,  
But never such a blow."

Then reading on his 'bacco box,  
He heaved a bitter sigh,  
And then began to eye his pipe,  
And then to pipe his eye.

And then he tried to sing "All's Well,"  
But could not though he tried;  
His head was turned, and so he chewed  
His pigtail till he died.

His death, which happened in his berth,  
At forty-odd befell;  
They went and told the sexton, and  
The sexton toll'd the bell.

—Thomas Hood.

### A Little Talk on Ideals.

[Miss Dorothy Dean, a woman of rare loveliness, has been writing some letters to her niece and namesake, and because the girl is much like other girls, we thought the letters might be helpful to them, and have asked the privilege of printing them. The first one appears below.]

Dear Dorothy:—I suppose it is because you are my namesake that I feel more interest in you than in my other nieces, and more concern that you grow up a lovely young woman. I have ideals for you, my dear, and I want you to realize them. If I speak very plainly to you of your faults and sometimes seem even somewhat harsh, you will forgive your old auntie, I am sure, knowing that it is only out of her love for you that she does it. For in your overflowing joy in life, you take me back to my own girlhood, which probably seems to you far away, as you look at the silver in my hair and notice how painfully I get about with my stiff limbs and lame back. Yet to me my girlhood seems only a step behind, and I think I can remember enough of that time to know how to sympathize with you, both in your joys and your sorrows.

During my visit to your home a few weeks ago, I noticed several things that pained me, and a good many that pleased me. You are good-natured and light hearted and helpful. But, my dear, it seems to be that you are not living up to the best that is in you. You seem to have acquired wrong ideals. You talk loudly; you adopt profusely the habit of slang as soon as it reaches your neighborhood. You

think it important to acquire the latest fad in clothing and in jewelry, and the most of what you can afford of this sort of thing is cheap, pitifully and vulgarly cheap; and last, and I believe worst of all—I tried to believe it an accident, or an occasional occurrence—you are not absolutely neat.

Now, my dear, none of these things that I have just mentioned are the characteristics of a lady—rather the reverse. And to think of any one of my own blood and name being anything but a lady is humiliating to me, in the extreme. There is nothing worth while, unless you have the instincts and the character and the manners of a lady. This flashiness that you so admire (which seems to be the vogue among a certain class of young people) is mere vulgarity, nothing more nor less. There is nothing attractive about it. To imitate it is degrading—coarsening, vulgarizing. Loud and slangy talking may win you a little passing notice, perhaps a brief popularity from people of a certain sort, but not among ladies and gentlemen. The people who are really worth while, whose friendship is worth having, scorn such manifestations. They despise or pity the people who make them, and to associate with them a feeling of equality and sociability would be impossible to them, because they would have nothing in common with them.

It may seem to you that the dozen or so young people in your neighborhood are the only part of the world that concerns you. They seem to be leading spirits, they seem to have a good time, and it is they, doubtless, who have given you these false ideals that I have been talking about. But there are better people in the world and you must think of them when you are considering public opinion. Why, even in your own neighborhood, there is young Mrs. Gentle, who would be recognized for a lady in the most polished society, although she has grown up there right beside you. There is old Mrs. Best, who has the graciousness that came to her through generations of breeding. Miss Ravena, a graduate of the Agricultural College, is a trifle "old-maidish," but well-read and accomplished, if you have the tact to find it out. And then there is old Johnnie Gardiner, the rarest, quaintest character, one of nature's gentlemen. His grammar is peculiar and original, but, my dear, it is not one-half so bad as your slang-bestrewn, slipshod language. You did not think of all these people, did you, when you spoke of being ashamed of your vulgar loudness before real ladies and gentlemen. Yet if you would take time to notice it, you would be conscious that you have fixed a gulf between you and them, and if you were honest enough to think clearly, you would know that their side of the gulf is the superior side.

And then, sometimes, my dear, I should like you to come here and visit me and I should want to introduce you to my friends, and I think you would find them people who would not appreciate cheap, up-to-date-ness. And there is always the certainty that you will meet new people, now and then, and as you grow older and see more of the world, you will learn that genuine refinement and gentleness and sincerity are recognized wherever they are, and are valued by people of every class and every grade of culture. These qualities are the hall-marks that admit you to any grade of society. Every one, even ignorant, giddy people like your friends, involuntarily pay homage to them. In short, my dear little niece, whom I love in spite of her faults, the finer side is worth cultivating, from a merely worldly point of view. Cling to what is best, dear, and put away the coarse and vulgar. Some time you will be grateful to me, though I know there are tears in your eyes now.

Remember, dear, that I love you as I do my own lost youth. I shall write to you again in a few days, and I hope you will not be too angry to answer me now and then.

Lovingly your aunt,

DOROTHY DEAN.

## Our Special Offer.

Send order, mark article or articles you wish with an "X," enclose amount as per prices quoted, and if they are not all we claim for them—if they are not absolutely satisfactory to you return them at our expense and we will refund your money.

Tea Spoons—Our "Dauphin" pattern, as illustrated, triple-silver-plated all over and re-enforced on wearing parts—the best value for the money ever offered.  
6 For \$1.50  
Our name the stamp of quality on every piece.

Could Anything Be Fairer?

Mermod & Jaccard Jewelry Co., St. Louis, Mo. Please send me one of your new Catalogues, and articles that I have marked "X," for which enclosed find. as per price quoted.



This elegant Watch, solid 14-karat gold, richly engraved hunting case—fitted with Mermod & Jaccard's guaranteed jeweled movement.

ONLY \$18.50

Fill Out Coupon, Write Your Address in space above; give your full name, city or town, State and county; also street and house number. Cut this ad out and mail to us we will send, postage prepaid, our new "1905" Catalogue—a handsome book of 336 pages—containing over 5,000 beautiful illustrations and descriptions of fine Jewelry, Tableware, Art Goods, etc.; also valuable information regarding precious stones, the language of gems, their origin, etc., etc. Write for it to-day.

**MERMOD & JACCARD JEWELRY COMPANY**  
The Finest Jewelry House in the World. ST. LOUIS, MO. Lowest-Priced House in America for Fine Goods.

### Some Hints on Country Entertaining.

Do any of our older readers remember when country parties were divided into two classes—kissing and dancing? For those whose parents objected to dancing the former was the favorite, but the latter was usually the best patronized. The younger people almost always preferred the dancing-parties, but there were many of the older folks who frowned on this sort of amusement, while the kissing-parties went unmolested. Happily this state of affairs no longer exists, and country gatherings are as up-to-date as those of the town.

In the first place, the entertainment must be suited to the guests if it is to be a success. How many of us have seen some unhappy man who never reads anything heavier than the daily paper struggling with a list of quotations from the poets, and wishing himself a thousand miles away? Then there is that abomination to people who couldn't read a bar of music if their lives depended upon it, which is called a musical party, where classical airs are rendered, and the guests guess the names and write them on slips of paper.

The quotation party is all right if all the guests read and enjoy the best literature, and the musical party might be a shining success if popular songs and rag-time airs took the place of the technical music in which only musicians delight. In fact, there is no jollier way to spend an evening than to have some one play snatches of "My Old Kentucky Home," "The Girl I Left Behind Me," "In the Good Old Summer Time," and such airs, in quick succession, while the guests try to keep up with wits and pencils. Have some simple prize for the best list, and a catalogue of popular songs for the poorest.

Try to have your scheme for entertaining suit the time and season. At a taffy-pulling, where the young people have come in ordinary clothes for an evening of fun, a clever plan is to have a contest to see who can pick out the most meat-nuts within a given time. The kernels can be used in the taffy, and while it would be an almost endless task for one person to get enough, in an incredibly short time you will have to call a halt if you expect to make any plain candy at all. A set of nut-picks makes an inexpensive prize, with a small hammer for the booby prize.

In winter, if all can skate—and every young person should learn to do

### HUNTERS - TRAPPERS

How to tan furs; make scent baits; find mink, fox, wolves; kill skunk without odor; train dogs to hunt coon, fox, skunk; best breeds. Skunk farming; bee hunting etc., send 30 cents for book.

F. W. HOWARD, Baraboo, Wisconsin.

### CIGARS FOR CHRISTMAS

Buy wholesale and save 35 to 50 per cent. We have a fine 5 cent cigar at \$2.75 per 100; 50 for \$1.50, or 25 for 85 cents. Sent by return mail, post-paid.

T. WORMALD CO., 1109 Vine St., Philadelphia, Penn.

this—have a skating-party of an hour or two, returning to the house for a substantial hot supper by ten o'clock. A big fire on the bank adds to the picturesqueness of the scene, and around it may be served such cakes or candies as may be eaten with gloves on while the skaters rest.

A popular form of amusement among young people is to have a singing or elocutionary contest. Have the judges sit behind a screen, so no favoritism (?) may be displayed in giving the prizes, and then get each guest to recite "Mary Had a Little Lamb," or some nursery ditty. The musical contest is great fun, for every one must sing a popular song, or one verse if the crowd is large, whether he wants to or not. Any simple prizes are appropriate.

At a deaf-and-dumb party the guests are furnished with paper and pencil, and a fine is imposed for every word spoken. This contest should not last more than forty minutes, during which time the hostess and several friends should endeavor to make every one speak. The young people answer questions and carry on conversations by means of the pencils.

A catalogue party is a novelty to most persons, and requires but little work. Fold six or eight pieces of common wrapping-paper so as to form a book about six inches long and four inches wide. The size of the book depends on the pictures to be used, and should be made after the advertisements are selected. Cut out any number of pictorial advertisements (twenty-five is a good number), using agricultural implements for the men, and fashions or kitchen goods for the girls. Paste or pin these securely in the little books, and print the name of a guest neatly on the front leaf. Be sure to remove every bit of printing from the picture, and then ask the guests to write beneath the picture the name of the firm whose advertisement it is. Of course, only prominent and familiar pictures must be used, and even then it is hard to turn out a book correctly labeled. Many a young man

has had trouble in recognizing his favorite plow, and the girls struggle with health-food and similar advertisements, wondering "where in the world that stuff is made, and by whom."

With a little care the books may be made dainty souvenirs of the occasion, for colored covers, ribbon bows and gay lettering transform the common pieces of paper into things of beauty. Take your time to make them, for it is fascinating employment, and very instructive as well.

This may be varied by using pictures of vegetables or fruits or flowers, and the prizes may be as varied as the pictures, for any sort of prize, provided it is simple and inexpensive, is appropriate.

Begin to plan and get ready in time. Have everything perfect in its way, and you need have no fears about the success of your undertaking. There ought to be more picnics, socials and parties at all seasons of the year, for no one has more right to innocent amusements than the people in the country.—Hilda Richmond, in Farm and Fireside.

### For the Little Ones

#### The Isle of Nid-Nod.

Oh, a satin sail, and a silver boat,  
Over the purple waves to float;  
For a path of gold, from the sunset west,  
Shines out the way that we love best!  
Shut, dear eyes that have drowsy grown,  
Dreams are waiting my sweet, my own;  
Mother pilots her babe alone  
To the wonderful, Isle of Nid-Nod!

On the shores of pearl we will roam all  
night,  
Watching the dream elves, wee and  
bright;

They will sing a song for my baby dear—  
Dance for my darling; do you hear?  
Gifts they'll lay at these dimpled feet,  
Stars and roses, all woven sweet;  
Oh, the pretties that we shall meet  
In the beautiful Isle of Nid-Nod.

When the scarlet glow of the dawn shall  
wake,  
Homeward again our sail we'll take;  
And we'll say good-by to the wee folks  
all.

Promising every night to call!  
Soon my precious will coo with glee,  
Safely moored will our dream boat be;  
Come, my little one, sail with me  
To the far-away Isle of Nid-Nod.  
—George Cooper, in Our Little Ones and  
Nursery.

#### A Tea Party.

Elizabeth and Mary were going to have a tea party. They took Elizabeth's little table out under the trees, and spread a paper over it and set Elizabeth's pretty doll dishes upon it. For tea they used hot water and in the cunning pitcher they put cold water for cream. They had real sugar in the sugar-bowl and for the rest of their meal there were crackers and apples and walnuts which they picked up from under the trees for the occasion.

"Now, Mary, you may pour the tea," said Elizabeth, politely, "and I will pass the crackers."

So Mary poured four cups of tea, one for Marianna, Elizabeth's oldest doll-daughter, and one for Lady Jane, her own precious baby-doll, and one for Elizabeth and one for herself.

"Marianna must not drink a whole cup of tea," said Elizabeth, "for she won't sleep well to-night if she does. Last night she was so fretful—dear me! I am almost worn out, she kept me up so long."

"Lady Jane is a dear good baby," said Mary. "She sleeps most all of the time—there—look at the darling—she has fallen over and dropped asleep now."

"Oh, let's make them a bed and put them to sleep in it," said Elizabeth, "and then we can go find a stone to crack these walnuts."

So they made a nice bed of leaves and covered their sleepy dolls up with their handkerchiefs, and then ran off to crack their nuts on a large stone that lay in the pasture. They had a good many nuts and the more they ate the better they tasted, so that it was a long time before they were ready to go back. But at last Mary thought of her dear baby who might be getting cold as the sun was getting low.

"Let's run," said Elizabeth. "I am

sure Marianna wants me—perhaps she is crying."

So they ran and reached the place very quickly where they had left the dolls. But no dolls were to be seen. They looked about wildly and Mary began to cry. "Oh, my dear Lady Jane," she called. "Where are you?" But there came no answer.

"Maybe Ronald hid them," said Elizabeth. "He likes to tease." Ronald was her brother.

But when they asked him about it, he said he had not seen the dolls at all, and when he saw how worried they were he felt sorry for them and offered to help find the dolls.

"Oh, yes, do, Ronald," said Elizabeth. "We don't know where to look."

"Well, you go out toward the barn and look all over the ground," he said. "And Mary, you look every place in the house and around it, and I'll go out toward the road."

"And the one that finds them first must holloa," said Elizabeth.

So they all started off in different directions. Ronald and Elizabeth had not gone far, when they heard a little squeal from Mary.

"Did you find it?" they both cried out, "as they ran back.

"No, but here is a piece of my handkerchief that we put-over them."

As soon as Ronald saw that piece of handkerchief, he had an idea, for it looked as if some hungry thing had been chewing at it.

"Billy!" said Ronald, and ran off toward the pasture, where Billy, the goat, was kept.

"Yes, sir—Billy!" echoed Elizabeth, starting after him. Mary followed, too, running so fast that she nearly lost her breath. They saw Ronald waving something in his hand and when they came near they saw that it was Mary's doll, Lady Jane.

"Oh, you dear precious!" Mary exclaimed to her doll as she hugged it tight. "I love you just the same, if your hair is gone."

"But where is Marianna?" asked Elizabeth. She looked first at Ronald, then at the goat.

"Guess Billy ate it," said Ronald.

"Mean, greedy thing," said Elizabeth, addressing the goat. "You're just a cannibal—you're no better than a bear to eat poor dolls that can't help themselves!"

Billy gazed at her stupidly for a moment, then ran and butted his head against a rain-barrel that stood near.

Elizabeth followed him. "You need not run away," she said, still speaking very severely, "for you've got to take your scolding. You're a mean, cowardly, cruel, bad Bill—"

Just as Elizabeth started to say "bad Billy," she caught sight of something white lying on the other side of the barrel. It was nothing more nor less than Marianna, somewhat battered and bruised, but still Marianna, smiling the same sweet smile she had worn since Elizabeth first knew her.

Elizabeth took her up tenderly in her arms, and gently wrapped up one leg which was leaking sawdust badly. She forgot to scold Billy, leaving that for Ronald to do, while she and Mary carried their wounded dolls in to mother, who was a splendid nurse when dolls were ailing.

"Next time we'll know where to look for them when they are lost," said Mary.

"Next time we won't leave them out where Billy can get at them," Elizabeth added.

When mother had made a neat cap for Lady Jane and a new foot for Marianna, the little girls laid them carefully away, and hand in hand, went out to finish their lecture to Billy, the goat.

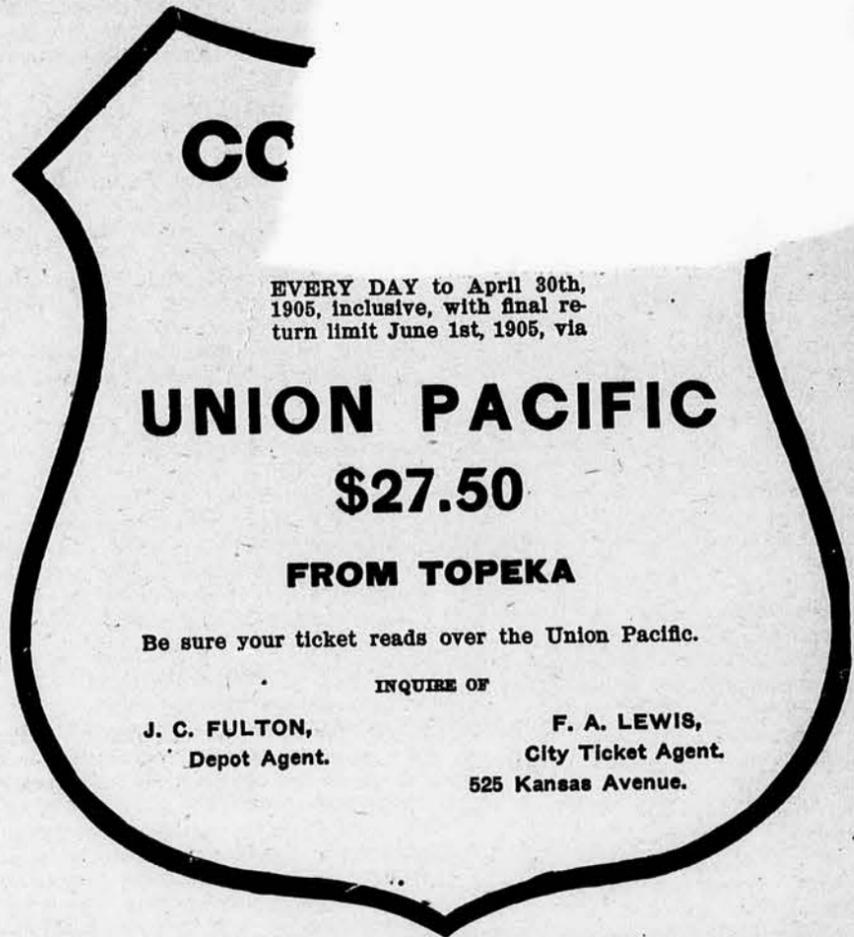
On November 15, and daily thereafter, until the summer season of 1905, the Frisco System, in connection with the Southern Railway, will operate through Pullman Sleepers between Kansas City, Mo., and Jacksonville, Fla. These Sleeping Cars will be placed in service as part of the equipment of the popular "Southeastern Limited," scheduled to leave Kansas City 6.30 p. m. A modern equipped train, electric lighted cafe, observation car, etc.—the route of which carries the traveler through the populous cities of the Southeast.

Berth reservations may be made through representatives of Frisco System or connecting lines. Passenger Traffic Department, St. Louis.

If you have any trouble with lamps—any trouble whatever—send for my Index I know of no lam disease that it does r cure immediately.

Costs nothing.

MACBETH, Pitts



EVERY DAY to April 30th, 1905, inclusive, with final return limit June 1st, 1905, via

## UNION PACIFIC

### \$27.50

#### FROM TOPEKA

Be sure your ticket reads over the Union Pacific.

INQUIRE OF

J. C. FULTON,  
Depot Agent.

F. A. LEWIS,  
City Ticket Agent.  
525 Kansas Avenue.

## K. C. S.

### Kansas City Southern Railway

"Straight as the Crow Flies"

#### KANSAS CITY TO THE GULF

PASSING THROUGH A GREATER DIVERSITY OF CLIMATE, SOIL AND RESOURCE THAN ANY OTHER RAILWAY IN THE WORLD, FOR ITS LENGTH.

Along its line are the finest lands, suited for growing small grain, corn, flax, cotton; for commercial apple and peach orchards, for other fruits and berries; for commercial cantaloupe, potato, tomato and general truck farms; for sugar cane and rice cultivation; for merchantable timber; for raising horses, mules, cattle, hogs, sheep, poultry and Angora goats, at prices ranging from

#### FREE GOVERNMENT HOMESTEADS

to twenty-five dollars or more per acre. Cheap round-trip, homeseekers and one-way colonist tickets on sale first and third Tuesdays of each month. Write for a copy of "CURRENT EVENTS," published by the

### KANSAS CITY SOUTHERN RAILWAY

THE SHORT LINE TO  
"INEXPENSIVE AND COMFORTABLE HOMES."

H. F. JUTTON, TRAV. PASS. AGT., KANSAS CITY, MO.  
S. G. WARNER, G. P. AND T. A., KANSAS CITY, MO.  
F. E. ROESLER, TRAV. PASS. AND IMIG'N AGT., KANSAS CITY, MO.

### 45 High-bred Registered Scotch Collie Pups For Sale 45

READY TO SHIP NOW.

Last Spring had 22, but was not enough to go around. Had to return six money orders. If you want one for a Christmas present put in your order at once.

WALNUT GROVE FARM, H. D. NUTTING, Proprietor, Emporia, Kansas

### Going to Business College?

If so, you will be interested in our beautiful illustrated catalogue. It tells all about our courses of study, equipments, methods of instruction, and the success of our graduates. It is free. Address

LINCOLN BUSINESS COLLEGE, Dept. 33, Lincoln, Neb.

that showiness does not constitute style, and that over-trimming cheapens even good material.

Tendency to out-dress others is to be deplored, and I think the love of indulging beyond one's means is one of the great causes of many diseases. Too much time spent on a waste of life, and we should give for simpler living and dressing. Perhaps more attention to suitability of person is given than to any other phase. A woman has a right to look her best. If blue is her most becoming color, let her wear it by all means. The style and color that is becoming to an individual should not be died and worn. A woman's personality can be expressed in her mode of dress as clearly and unmistakably as in her manner of speech. I do not but admire the charm of individuality, which some women possess instinctively. They seem to know instinctively how to twist a bow or bend a ribbon, and give it an artistic finish. Their dress is characteristic for they have not chosen them solely with a view to impress.

Quality rather than quantity also should be sought, as there is true economy in getting the best you can afford. The keynote in good dressing is simplicity. One tires of a fussily dressed woman much sooner than a simple

They think, to me, the least interesting subject in our Year Book. We all have our own ideas of dress for certain times and places, and I do not fancy for a moment anything I can say will change these opinions in the least.

From the fig-leaf garment of Eden to the Parisian costume of to-day is a far cry, but they are more or less kindred. Through all the varying degrees of civilization women have faithfully lived up to the highest in their nature, and their culture has found expression in their dress. Men have other products of growth to display; the rude sharpened stone has become a sword; the canoe a steamboat; the illumined misal the printed and engraved book of to-day; but the art of dressing in its broadest sense has fallen to the woman. Sometimes she is ridiculed for this, but the scoffer seldom realizes the breadth and scope of the art, and dress is an art.

Men dress perfunctorily. Regulation evening coat; regulation evening gloves; the regulation tie; how often we hear that word in connection with a man's toilet. It isn't a problem at all for a man. Let him step into the tailor's shop, and in half an hour he can select an outfit that will carry him from the court of England to the Sahara Desert. So the art of dressing properly belongs to woman.

There are a few fundamental truths that will bear repeating. One of the first is suitability to station, to occasion, and to person. The Queen may wear a purple velvet with a train two blocks long, but the social customs of America so differ from those of England that the President's wife would be over-dressed in such a garment. The millionaire's wife may wear a diamond necklace with her evening gown, but it would be decidedly poor taste for the wife of a man of moderate means to indulge her tastes in this manner.

A few practical hints may not come amiss. A wise woman of limited means will pay especial attention to her street gown. As a rule, it is the costume in which she is oftenest seen. It is this she dons for calling, church, shopping, travel, and for all practical purposes. As it may have to bear the brunt of wear for one or two seasons, it can not be too carefully considered.

A person's morning dress should be quiet in effect, rather plainly made, and suitable for the work one has to do; no old finery is ever permissible here.

We should remember that our children are affected by our neatness and cleanliness in dress, and all their future life may be influenced by what we wear and the importance we pay to dress while they are growing up.

A person should be deliberate in choosing, remembering always that the over-popularity of a style is against

When a law rule which is so often forgotten or neglected: After a dress is put on forget yourself and it. It should be comfortable. A self-conscious person will spoil the most becoming and tasty costume.

In conclusion, dressing correctly is not the abstruse problem many consider it, but simply the applied good taste of each individual. The personality of the wearer, her tastes, and her notions alone can give to her dress character and distinctiveness. Good taste developed along original lines is at all times the keynote of good dressing.

Soul Vistas.

BY ADA MELVILLE SHAW.

It was one of Chicago's hottest days. Fevered in blood and brain, I fled for a space to one of the large lunch-rooms that are so attractive in hot weather. The snowy linen, sparkling glass, coolly attired maids, were worth more in restful influence than many times the cost of the pineapple ice. As I sat fanning myself, I looked into a second large room, thoroughly enjoyed the cool, quiet vista of snowy tables and open windows with spotless curtains waving lazily in the breeze. It was not yet the noon hour, and the waiters moved leisurely about, adding to the general impression of coolness. "What a boon space is in this crowded city!" I said to myself as I drew a long, comfortable breath, and really felt better for the vision of two great rooms so daintily appointed. Suddenly, however, my enjoyment turned to amusement, for the "vista" was wholly within the frame of a large and skillfully adjusted mirror. The pretty illusion was full of suggestion, and I fell a-thinking.

A caller comes to my home, and finds me in the midst of a piece of trying work. I am nervous, discouraged, tired. Listlessly I permit my guest to lead the conversation. As she talks, a sense of refreshment steals over me. I brighten up. I look forward to her departure, for I know that now I can carry my interrupted work to a successful finish. Why this change? A pure case of reflection and vista. In the polished mirror of her conversation my friend shows me an inspiring series of pictures. She speaks of God's graciousness and love, and I draw nearer to Him. She talks of noble souls, and I am uplifted. She touches upon the beauty and joy of work, and my hitherto wearied muscles throb with a desire to "take hold" again. She narrates a bit of pure bright humor, and the hearty laugh drives the very last cobweb from my brain.

As she is leaving, a neighbor drops in. In five minutes my depression has returned. "How tired you look! . . . Are you well? . . . I have been so miserable this week. . . .

Baby has been fretful and my hired girl is so unsatisfactory. . . . Have you heard that dreadful affair? Positively awful. . . . I must not keep you, you look really worn out. . . . You will break down. See if you don't. . . . Why don't you go to a doctor? . . . Mrs. B. looked just as you do this morning, and you know how she died!"

If I could have gone back to my kitchen before caller number two appeared, the morning's task would have been completed with a song instead of a sigh and a nervous headache. Had the lunch-room mirror reflected the hot, crowded street from which I had taken refuge, or the "sweltering" kitchen a few feet away, my pineapple ice would have failed in its mission of relief.

There is a growing class of physicians who hold the elements of suggestion as vital to their success. We all know the difference between the doctor who comes to us with a smile and the fellow who shakes his head and sighs, and makes us think of coffins. When baby tumbles down, the wise mother laughs, not at him, but for him; and, though he may smart a bit from the bump, he scrambles up with a laugh, and rather thinks that tumbles are good jokes, after all.

Working at her desk on a blue Monday, the stenographer feels the oppression of high-strung nerves and Monday moods. Very softly, and to all appearance unconsciously, but with methodical "madness," she hums softly a few bars of a hymn,—

"When Jesus shows His face to me,  
There is sunshine in my soul."

The slouching office boy revives, gives a flirt to his duster, whistles the refrain under his breath, and polishes with a will. Sunshine? Surely! The bookkeeper looks up from the swimming figures, catches sight of a jolly bit of blue sky between the high walls, and knows at once that two and two can not possibly make five. The business manager shuffles the pile of letters before him, and says to the stenographer, "Now, Miss Kate! we will just make short work of this," and while she is gathering up her tools, he chirrup a brisk accompaniment to the office boy's soft whistle, and nods cheerily at him,—"You're making things look fine, Bill!" Blue Monday is over, and the air is bright with hope and confidence. The stenographer's song suggested sunshine and the clouds fled.

My medical friend has often said to me, touching this matter of suggestion, "You have no more right to poison another's mental atmosphere than you have to put strychnine into his drinking water." But we forget this moral obligation, if, indeed, we have ever thought of it at all. We pour out our woes and our discouragements to every willing and unwilling ear, putting mental and moral malaria into the atmosphere.—Ex.

The Insanity of Impatience.

Temporary surrender of self-control is made of the same stuff as the total dethronement of reason that lands one in the madhouse. No doubt a direct relation might be traced between the prevalent impatience of the times and the increasing proportion of insane people. Voluntary irrationality is in the direction of involuntary and permanent derangement of the mind.

We allow ourselves to flash up in anger because the cabman tries to cheat us, or the neighborhood gossip has busied her tongue about our affairs, or we fret and fume because the street-car is delayed, or a debtor won't pay his bills. It is over in a moment, and we smile at our late perturbation and think that is all there is of it. But it is not. That momentary rush of blood to the part of the brain that sent out the impulse of anger or irritation has left permanent effects in the brain-cells. With the first yielding to a spasm of irrational passion there is begun a predisposition on the part of the nerves to flood the same part of the brain with blood, again, on the slightest provocation. The control of the will over the passions is weakened. We have abdicated a fraction



Absolutely Pure

Analyzed by the health officers of New York, Boston, Chicago and London and found a pure, cream of tartar powder, of highest healthfulness and leavening strength.

Care for your family's health requires constant watchfulness to exclude from your kitchen the unwholesome alum baking powders which are declared by physicians to be productive of nervous and digestive diseases.

of our sovereignty, which will never come back to us without an effort to regain it.

Mr. Stead, in his book on the "Americanization of the World," argues that the nerve-stimulating climate and environment of the American make it imperative that we have a continual infusion of fresh blood from the more phlegmatic races, to save Americans from becoming nervous wrecks. But why should the American, whose ambition is to control everything else, not learn to control himself and his climate? Or, rather, how can he hope to become master of the world's commerce, and the guardian of uncivilized peoples, unless he is master of himself?

One of the most marked weaknesses manifested in our life is our impatience. We are in too much of a hurry to build substantially; we throw up fire-traps. We can not wait for time to work out social and political problems; we want to break the lock with a jimmy. We can not wait to become rich by legitimate means; we must speculate, and "promote" vast schemes, and work miracles in finance. We can not take our travel, our pleasures, even our growth, at a rational pace; we must strain and rush and wear ourselves out prematurely doing something phenomenally big. We must break records. We can not wait for oak-tree reforms; we set out to rebuild the Ship of State with a mushroom keel.

But it is in our personal characters that we have most to fear from the lack of a governor on the engine. Impatience is not only a blemish on character, but it is a menace to our spiritual perfection. It is because worry and irritation are irrational that Jesus Christ offers to give us peace in their stead. The only really sane life is the life that has the balance-wheel of Christian self-control. Unbridled impatience, when it has conceived, brings forth chronic ill-temper and may end in total insanity.—Ex.

Recipes from the Crescent Club, of Rawlins.

Bourdon Sauce.—Two gallons cabbage cut fine; 1 dozen green tomatoes sliced; 1 dozen onions sliced; 1 ounce celery seed; 1 ounce whole pepper; 1 ounce whole cloves; 1 ounce whole allspice; 1 ounce whole ginger; 1 ounce tamara powder; 1 ounce whole white mustard seed; 1/2 cut salt; 1 1/4 pounds sugar; 1 gallon vinegar. Boil twenty-five minutes. This makes 2 gallons.

Beef Loaf.—Two pounds beef, 1 pound pork, minced finely together; 1 tablespoon salt; 1 teaspoon pepper;

three eggs well beaten; six crackers (or more) rolled. Mix all together on mixing board and place in a basin. Place this basin in a larger pan of hot water, cover tightly and bake in oven for three hours. A little grated onion may be added if desired.

**Salmon Salad.**—One can salmon; 2 eggs (yolks) hard boiled; 1 teaspoon mustard; ½ cup of vinegar.

**Marshmallow Custard.**—Make a plain cornstarch blanc mange; flavor with vanilla. Divide into thirds. Put three spoonfuls of chocolate into one part; and shredded cocoanut into another. Put together in a dish in layers.

## Club Department

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

President..... Mrs. Ora G. Lewis, Kinsley  
Vice-Pres..... Mrs. Kate E. Applington, Council Grove  
Corresponding Secy..... Mrs. Eunice H. Brown, Olathe  
Recording Secretary..... Mrs. F. B. Hine, Kinsley  
Treasurer..... Mrs. J. T. Willard, Manhattan  
Auditor..... Mrs. D. W. Wilder, Hiawatha  
State Secretary for General Federation.....  
..... Mrs. C. C. Goddard, Leavenworth

### Our Club Roll.

Mutual Improvement Club, Carbondale, Osage County (1895).  
Give and Get Good Club, Berryton, Shawnee County (1902).  
Woman's Literary Club, Osborne, Osborne County (1902).  
Woman's Club, Logan, Phillips County (1902).  
Domestic Science Club, Osage, Osage County (1888).  
Ladies' Crescent Club, Tully, Rawlins County (1902).  
Ladies' Social Society No. 1, Minneapolis, Ottawa County (1888).  
Challito Club, Highland Park, Shawnee County (1902).  
Cultus Club, Phillipsburg, Phillips County (1902).  
Literatae Club, Ford, Ford County (1903).  
Sabean Club, Mission Center, Shawnee County, Route 2 (1899).  
Star Valley Woman's Club, Iola, Allen County (1902).  
West Side Forestry Club, Topeka, Shawnee County, Route 8, (1903).  
Fortnight Club, Grant Township, Reno County (1903).  
Progressive Society, Rosalia, Butler County (1903).  
Pleasant Hour Club, Wakarusa Township, Douglas County (1899).  
The Lady Farmers' Institute, Marysville, Marshall County (1902).  
The Woman's Progressive Club, Anthony, Harper County.  
Taka Embroidery Club, Madison, Greenwood County (1902).  
Mutual Improvement Club, Vermillion, Marshall County (1903).  
[All communications for the Club Department should be directed to Miss Ruth Cowgill, Editor Club Department.]

### American Literature Program.—Washington Irving.

- Roll-call—Irving's books.
- I. Irving as an historian.
- II. Review of "Life of Washington."
- III. Reading—"Rural England."
- IV. The historian's value to the world.

We should like to hear now and then from the clubs of ours which are scattered over the State. If you are studying or reading or trying in any way for self-improvement, you have the club spirit and may as well call yourself a club. We know there are many such clubs and to hear from them directly would be an inspiration.

In this program the study of this most charming of American writers is

taken up from another point of view. Irving's reputation in the world of literature does not depend entirely upon his work as a humorist. As a faithful and trustworthy historian he has made himself a place of honor.

The first paper considers him as a historian, discussing his merits and failings and pointing out peculiarities of style and characteristic manners of expression.

For Topic II, it will be well to give the review orally. The practice of speaking without paper or notes is a splendid one, giving one an ease and self-possession in conversation and a sense of power difficult to acquire in any other way. Such discussion is more interesting to the hearers, also, and lends a pleasant variety to the program. One should know thoroughly the subject she is to speak upon and have it outlined in her mind, with the most important points well arranged. Then determine to keep strictly to the subject, and be as brief and concise as possible to do justice to the subject, and stick to your determination.

The reading of "Rural England," from the Sktech Book, will be a very good example of Irving's serious style.

The paper which is to close the afternoon's work should be a sober and serious discussion of the subject of Topic IV.

## The Apiary

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

### The Kansas State Bee-keepers' Association.

Officers: Dr. G. Bohrer, Lyons, Kans., president; E. W. Dunham, Topeka, Kans., vice-president; O. A. Keane, Topeka, Kans., secretary; J. J. Measer, Hutchinson, Kans., treasurer.  
Annual membership fee, \$1.00. Send dues to treasurer. Official organ, Kansas Farmer.

### The National Bee-keepers' Association.

Objects of the association: To promote and protect the interests of its members. To prevent the adulteration of honey.  
Annual membership fee, \$1.00. Send dues to treasurer.  
Officers: W. Z. Hutchinson, Flint, Mich., president; J. U. Harris, Grand Junction, Col., vice-president; George W. York, Chicago, Ill., secretary; N. E. France, Platteville, Wis., general manager and treasurer.

### Feeding Bees in Winter.

EDITOR KANSAS FARMER:—I would like some information in regard to feeding bees through the winter. My bees are hived so late that they do not have enough honey stored to take them through the winter. They are not in the improved hives, but in box hives with a partition eight and a half inches from the top for surplus honey. Please inform me of the best method of taking them over the winter, through the "old reliable" KANSAS FARMER.  
CLINT DIXON.  
Wilson County.

You have given us a pretty hard proposition this time and one that most beekeepers would consider it impossible to answer. You do not say whether or not they have any honey stored away, nor give the amount of the same. If your bees have no honey at all in their combs, I am afraid there is no remedy. But if they have a few pounds to fall back on in extreme cold weather, we might pull them through by feeding candy. We can not feed liquid food in winter, and must depend upon candy alone. It is a difficult matter to place candy in a box hive so that the bees can reach it during the winter season. The top of the combs should be laid bare so the blocks of candy could be laid directly on the combs right over the cluster of bees. If as you say there is a partition between the brood-chamber and the surplus apartment of perhaps a solid board with a hole for the bees to pass through, they will be unable to reach the honey except now and then when it would be warm enough to permit them to come into the upper story to feed upon the candy. The candy must be placed directly over the cluster of bees for the purpose of receiving the heat of the bees, and thus keeping it at a temperature to enable the bees to feed upon it. It is not an impossibility to bring a colony of bees



## Simpson - Eddystone Prints

The standard calicoes of the United States for more than half a century. Your grandmother used Simpson Prints. They were good then because the character of the manufacturer was stamped on the materials and entered into their making. To-day they are better than ever before—the old-time high ideals have been maintained and Eddystone improved art and machinery have raised the standard of Simpson Prints still higher. Ask your dealer for Simpson-Eddystone Prints.

In Blacks, Black-and-Whites, Light Indigo-Blues, and Silver Greys; Shepherd Plaid effects and a large variety of new and beautiful designs. Thousands of first-class dealers sell them.



Sole Makers, The Eddystone Manufacturing Co., Philadelphia, Penn.

through the winter on candy exclusively if the proper attention be given, and the winter be not too severely cold.

Your best and only safe plan would be to remove the partition board between the lower and upper story, or at least so much of it as would give you the required amount of space. I would if possible take it entirely out, but in doing so you must be very careful not to destroy the combs, or break them loose so they will fall down. With a fine compass saw you may be able to remove the most of it from the center. If the hives are pretty well filled with comb, it will do no hurt if small portions of the comb come off with the top. Thus arranged, place slabs of candy on the top of the combs to the amount of five or six pounds, renewing it later on when a fine day comes. After thus placing the candy, cover it well to retain the heat of the bees; it should be packed closely and compactly to the depth of eight or ten inches with woolen cloth.

The hives of bees should also be packed entire in boxes large enough so that there is space of four inches or more around the sides, and ten or more inches on top, with good dry chaff. The bees must not be shut in completely, but an entrance should be made at the bottom so they can come out at will the same as in their own hive. The chaff hives thus prepared should be placed on the former stands so that the location of the entrance is not changed from what it formerly was. It would not do to change the location of the entrance, for the first day the bees come out, they would return to their former place of entering and would be lost.

Instead of putting them in chaff hives, they may be placed in a good cellar, and thus be kept in better condition and with less feed if all the details be carefully carried out, but if one has had no experience in wintering bees in cellars he would be liable to fail. Bees in the cellar must be kept in absolute darkness and profound stillness, and should be kept there until all cold weather has passed in spring.

Make the candy from granulated sugar by adding a little water, about the same in bulk of each. Heat slowly, stirring continuously, and do not let it burn. Let it boil a few minutes, and pour out in pans of small dimensions the size of the cakes wanted, or it may be molded in large, flat pans and broken up into chunks. It should not be too thick, one inch in thickness is about right. Paper should be placed in the pans or it may stick fast. This will make a very hard candy, almost as hard as rock candy, but it is all right. Some make a food by mixing sugar and honey into a thick mass, but I prefer the hard candy. A strong colony will consume twenty pounds or more during winter.

## Grange Department

### Railroad Rates to Kansas State Grange.

We are officially informed by the chairman of the Western Passenger Association that a rate of a fare and one-third on the certificate plan for the meeting of the Kansas State Grange December 13-15, at Paola, has been granted.

In order to make this rate available, 100 certificates showing purchase of tickets at a cost of over fifty cents must be presented to the secretary of



## WEBSTER'S INTERNATIONAL

Includes in the New Edition 25,000 NEW WORDS, Etc. New Gazetteer of the World New Biographical Dictionary Edited by W. T. HARRIS, Ph.D., LL.D., United States Commissioner of Education. 2380 Quarto Pages. 5000 Illustrations. New Plates. Rich Bindings. GET THE BEST

Also Webster's Collegiate Dictionary with 1116 Pages, 1400 Illustrations. Size: 7x10x2 3/4 in. A Special Thin Paper Edition De Luxe Printed from the same plates as regular edition. It has limp covers and round corners. Size: 6 1/2 x 8 3/4 x 1 1/2 inches. FREE, "A Test in Pronunciation," instructive and entertaining. Also illustrated pamphlets. G. & C. MERRIAM CO., Publishers, Springfield, Mass.

## NICKEL RATE.

The New York, Chicago & St. Louis R.R.

Three Express Trains East Every Day in the Year. Pullman Drawing Room Sleeping Cars on all Trains. Trans-Continental Tourist Cars leave Chicago Tri-Weekly on Tuesdays and Sundays at 2:30 p. m. and Wednesdays at 10:35 a. m.

### CHICAGO TO BOSTON WITHOUT CHANGE.

Modern Dining Cars serving meals on Individual Club Plan, ranging in price from 35 cents to \$1.00, also service a la Carte. Coffee and Sandwiches, at popular prices, served to passengers in their seats by waiters. Direct line to Fort Wayne, Findlay, Cleveland, Erie, Buffalo, Rochester, Syracuse, Binghamton, Scranton.

### NEW YORK CITY, BOSTON AND ALL POINTS EAST.

Rates Always The Lowest.

Colored Porters in uniform in attendance on all Coach Passengers. If you contemplate a trip East call on any convenient Ticket Agent, or address, JOHN Y. CALAHAN, Gen. Agt., 118 Adams St., Chicago, Ill.

the grange at Paola. The instructions specifically state that "No certificate will be honored which was issued to cover the sale of more than one single-trip ticket."

Certificates must be demanded for every ticket bought, whether for the whole distance or for different portions thereof.

Full fare will be paid to Paola and a one-third fare granted on return if conditions are complied with.

Tickets purchased for going passage may either be limited or unlimited according to rate paid or the regulations of the line over which it reads; but the return ticket sold at the reduced fare will, in all cases, be limited to continuous passage.

Tickets may be purchased for going trip December 9-15, inclusive, and for return trip not later than Dec. 19.

The above rates are applicable on all railroads from all points in Kansas and from St. Joseph, Mo., and probably from Kansas City, Mo., though instructions to us do not include the latter city. E. W. WASTGATE.

Have You Lost your Bread Knack? use YEAST FOAM

The Wonderful Yeast.

Yeast Foam is the yeast that raised the First Grand Prize at the St. Louis Exposition. Sold by all grocers at 5c a package—enough for 40 loaves. Send postal card for new illustrated book "Good Bread: How to Make It."

NORTHWESTERN YEAST CO. Chicago, Ill.

**VALUABLE INVESTIGATIONS BY PROFESSOR KING.**

(Continued from page 1197.)

each ton of manure applied to the poorer land. The increase in the dry matter in the stalks and leaves was not so great, being 64.03 pounds per ton of manure, or nearly 5 pounds less than in the kernels. It thus appears that the major effect of manuring is seen in the increased yield of grain.

The effects of manuring upon potatoes are also very striking, although the response of the stronger soils was more marked than that of the poorer soils. This difference appears to have been due to the fact that on the poorer soils the potatoes were affected with "tip-burn." On the strong soils, the average gain in yield of potatoes was 42.58 bushels per acre for 5 tons of manure; 67.47 bushels for 10 tons; 84.95 bushels for 15 tons; and 28.48 bushels for 300 pounds of guano.

The effects of varying quantities of manure upon the elements of fertility in the soil and their movements are thoroughly investigated. The book answers more questions of importance to the practical farmer along the lines of soil treatment than have been answered elsewhere. While scientifically accurate, Professor King has the happy faculty of presenting matters in a way to be easily understood by the average unscientific reader.

The book sells for 50 cents and may be ordered from the KANSAS FARMER or from Professor King.

**KANSAS WINS THE COOK TROPHY AT THE INTERNATIONAL LIVE-STOCK EXPOSITION.**

Kansas wins the corn-judging contest at the 1904 International.

It was between Iowa and Kansas, and the Jayhawkers carried off the spoils, which include the \$1,500 trophy offered by A. E. Cook, of Odebolt, Iowa.

Below is the rating each student received, out of a possible 500:

**KANSAS TEAM.**

Names.	Points Won.
D. H. Zuck.....	360
A. D. Colliver.....	350
J. H. Cheney.....	337
F. A. Klene.....	324
C. Wheeler.....	321
Total.....	1,692

**IOWA TEAM.**

Names.	Points Won.
E. B. Watson.....	379
John Jenkins.....	350
H. Ness.....	332
Chas. Reimbolt.....	325
C. A. Western.....	268
Total.....	1,654

The judges—Prof. W. M. Hays, E. D. Funk, and D. N. Funk—report the contest as a very interesting one, and make some very valuable suggestions for future contests.

The Kansas boys were instructed by Prof. V. M. Shoemith.

Corn-judging is a new feature recently introduced at this college. Neither Professor Shoemith nor his boys had received instruction in any corn-judging school. The Professor, with his class, studied out some principles, established a unit standard and worked out a method for judging grain that can be demonstrated as clearly as an algebraic result or a geometrical solution. A good reason is named for every rating given or choice made. Prof. L. S. Klinck, professor of farm crops at the Iowa State College, gave his students instruction according to the score card originated by Prof. P. G. Holden, professor of agronomy at the Iowa College. Corn-judging has been a regular branch of study in the Iowa school for two years. Corn contests have been established in the farmers' institutes over the State and a State contest is now held at Ames each year during their Farmers' Short Course. Because of this fact, the Kansas boys felt the odds were against them, but resolved to "die game." Their demonstration method of judging used, made the Kansas boys strong in placing ears and giving reasons. This undoubtedly had much to do with their winning the contest.

The trophy is a beautiful conception in bronze. There are three plate-glass cylinders holding representative ears of corn. To the rear, supported by a pedestal, is a bronze globe turned so the American continent, the corn-belt

of the world, is to the front, with the corn area of the United States prominently marked.

To the left, and in front of the globe, is a 30-inch statue of an American Indian, in full regalia—the originator of corn. To the right is a bronze statue of Mr. Charles Cook, founder of the largest corn farm in Iowa—Brookmont Farm. This is intended to represent what science, through selection or breeding, can and will do for the world's greatest cereal—corn. The trophy is clear in conception, beautiful in execution—the gift of A. E. Cook, Odebolt, Iowa. The studying, judging and breeding of corn, has given Illinois the standard corn of the world. The good work at Ames is giving Iowa the biggest and best corn she ever had. A similar work with wheat, under Professor Hays' direction, has done much to improve the quality and yield of spring wheat in Minnesota.



**OFFICERS OF SHAWNEE COUNTY HORTICULTURAL SOCIETY.**

A. B. Smith, Vice-President.  
 Mrs. A. B. Smith, Alternate Delegate to State Society.  
 S. M. Crow, President.  
 O. F. Whitney, Secretary-Treasurer.  
 Mrs. O. F. Whitney, Alternate Delegate to State Society.

On account of eminently satisfactory services during the past year, the Society made a precedent by reelecting its officers. The delegates to the annual meeting of the State Horticultural Society escaped before the Kansas Farmer camera could catch them. The alternates were captured, together with the executive officers at the rooms of the State Society.

Mr. Merritt Greene, of Marshalltown, Iowa, said yesterday: "Boys, this work with the cereals is a very important one, with wonderful possibilities in its breeding. These contests are paving the way for better corn and more of it."

If the Exposition management accepts the plan proposed by Professor Hays' committee it is believed that nearly every State in the corn-belt will be in next years' International corn contest.

**TRESPASSING HUNTERS CAME TO GRIEF.**

"The way of the transgressor is hard," say the Scriptures. So, also, the trespassers who assume the right to hunt on the farms out towards Vine-wood Park, near Topeka, without the consent of the farmer found it necessary last Monday to contribute to the public weal in sums of \$15, \$19, and \$19. These three were guilty of plain, week-day hunting. Other cases will be those of three other fellows who were taken in last Sunday under the Sunday law by Mr. R. Constable and Mr. O. C. Skinner in their capacity as special deputies of the sheriff of Shawnee County. The hunters were unruly and threatened to fill the farmers full of holes if they came near. But the farmers did come near and did take a gun. In the attendant scuffle the gun was discharged, with the result that the farmers had to "hitch up" and "haul" a man with his leg full of shot to the Vinewood car line to enable him to get back to town. Trial is yet to be had.

These farmers say they have lost all the poultry and stock they expect to contribute to the carelessness of hunters and their dogs, and that the insolence of these trespassers is to end very soon in their vicinity. There is

talk of organizing a branch of the A. H. T. A. in this vicinity. It is understood that not only horse-stealing but other infractions of the laws of the land speedily become unpopular where the A. H. T. A.'s abound.

**BLOCKS OF TWO.**

The regular subscription price of 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 receive the paper at half price. While the subscription price will remain at one dollar per 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

**Painkiller** PERRY DAVIS' The world-known household remedy for cuts, burns, bruises—coughs, colds, sore throat.

**WHICH SEPARATOR?** It is to your advantage to get the cream separator that will do the best work for you at the least expense. The **EMPIRE** Easy Running Separator is the simplest in construction, the most perfect in operation. It has the fewest parts to clean, the fewest to wear out. It gives less trouble and more satisfaction than any other. All we ask is a chance to show you why. Send for name of nearest agent and free catalogue. Empire Cream Separator Company, Bloomfield N. J., Chicago, Ill., Minneapolis, Minn.

**The Stock Interest**

**THOROUGHbred STOCK SALES.** Dates claimed only for sales which are advertised or are to be advertised in this paper. December 15, 1904—Combination sale of Percheron stallions and mares, Coach stallions, and jacks and jennets, at Ottawa, Kans., S. A. Spriggs, Westphalia, Kans., Manager. December 21, 1904—M. L. Ayres, Shenandoah, Ia., Percheron brood mares. December 30, 1904—Dietrich & Spaulding of Richmond, Kans. Poland-China bred sow sale at Ottawa, Kans. January 4, 1905—Herefords, James A. Carpenter, Carbondale, Kans. January 11, 12, 13, 1905—Breeders' Combination Sale, Bloomington Ill., Percherons, French Drafters, Clydesdales, Shires, and Coach horses; Aberdeen-Angus, Shorthorns, Galloways and Herefords, C. W. Hurt, Manager, Arrowsmith, Ill. January 20, 1905—Poland-Chinas at Girard, H. N. Holdeman. January 31, 1905—S. H. Lenhart, Hope, Kansas, Poland-China bred sow sale. January 25, 1905—G. A. Munson, Maxwell, Iowa, Duroc-Jerseys. January 30, 1905—Geo. Kerr, Sabetha, Kansas, Duroc-Jerseys. January 31, 1905—J. B. Davis, Fairview, Kansas, Duroc-Jerseys. February 1, 2, 3, 4, 1905—Percherons, Shorthorns, Poland-Chinas, Wichita, Kans.; J. C. Robison, Topeka, Kans., Manager. February 1, 1905—C. E. Pratt, Frankfort, Kansas, Duroc-Jerseys. February 2, 1905—Poland-China brood-sow sale, by F. A. Dawley, Waldo, Kans., at Osborne, Kans. February 2, 1905—J. O. Hunt, Marysville, Kansas, Duroc-Jerseys. February 3, 1905—Chester Thomas, Waterville, Kansas, Duroc-Jerseys. February 4, 1905—W. F. Garrett, Portis, Kansas, Duroc-Jerseys. February 8, 1905—Schmitz Bros., Alma, Kans., Poland-Chinas. February 14, 1905—E. P. Sherman, Olathe, Kans., Poland-Chinas. February 15, 1905—W. H. Cottingham & Son, McPherson, Kans., Shorthorns and Poland-Chinas. February 16 and 17, 1905—Chas. M. Johnston, Manager, Caldwell, Kans., Combination sale of registered stock. February 20, 1905—J. F. Chandler, Frankfort, Kans., Duroc-Jersey bred sows. February 21, 1905—John W. Jones & Co., Delphos, Kans., Duroc-Jersey bred-sow sale. February 22 and 23, 1905—Shorthorns and Poland-Chinas, N. F. Shaw, Manager, Plainville, Kans. March 7, 1905—Jacks, jennets, and stallions, at Limestone Valley Farm, Smithton, Mo., L. M. Monsees & Sons, proprietors.

**Marshall County Hereford Association Sale.**

On November 30, 1904, the third annual sale of the Marshall County Hereford Association was held at Blue Rapids, Kans., under what might be termed most favorable circumstances. The weather was perfect and a large crowd was in attendance, in fact the crowd was too large to be accommodated in their new sale pavilion on the northwest side of the city. The crowd was so large that many could not get near the sale-ring at all, but for some unaccountable reason the prices realized were not as high as were confidently expected. Col. James Sparks, of Marshall, Mo., was the auctioneer for the occasion and in his very delightful and pleasing manner conducted his part of the sale. Frequently the term was heard at the sale, in reference to the Herefords of Marshall County, that it was the Herefordshire of America, and probably there are more Hereford breeders within the limits of this county than any other county of its size in the world. As was said before, the prices realized were not what had been expected. The animals were all in good condition. The secretary of this association, E. E. Woodman, of Vermillion, Kans., deserves special credit for his earnest efforts in making this a successful sale in every particular. The top of the bull sale, Sir Twilight 173092, owned by A. Bork, of Blue Rapids, was bid off to Wm. Lillibridge, of Hanover, for \$145. The top price for females was paid for Valentine 109369 and calf by Boatman 56011, owned by the Vermillion Hereford Company, of Vermillion, which went to F. L. King, of Washington. Other buyers were as follows: W. H. Trosper, Walter M. Morgan, S. W. Tilley, Irving; A. W. Gibson, E. R. Morgan, C. M. Burkett, D. L. Wescott, Windsor Peter, Byron Weeks, C. E. Strange, Fred Cooley, S. Frank Paul, Geo. Lies, M. Patterson, J. M. Wannamaker, Blue Rapids; Chris. Kuhlman, Chester, Neb.; August Hukriede, Tobur-en Bros., Samuelson Bros., M. Villander, Cleburne; Louis Kuncce, Nels Johnson, Johnstone Bros., Axelton Bros., Ran-

be entered, both for one year, for one dollar. Address, Kansas Farmer Company, Topeka, Kans.

**Special to Our Old Subscribers Only.**

Any of our old subscribers who will send us two NEW SUBSCRIPTIONS at the introductory rate of fifty cents each, will receive any one of the following publications as the old subscribers may choose, viz., "Woman's Magazine," "Western Swine Breeder," "Vick's Family Magazine," "Blooded Stock," "Poultry Gazette," "Dairy and Creamery," or "Wool Markets and Sheep."

**Snakes' Eyes.**

Snakes may almost be said to have glass eyes, inasmuch as their eyes never close. They are without lids, and each is covered with a transparent scale, much resembling glass. When the reptile casts its outer skin, the eye scales come off with the rest of the transparent envelop out of which the snake slips. His glassy eye scale is so tough that it effectually protects the true eye from the twigs, sharp grass and other obstructions which the snake encounters in its travels, yet it is transparent enough to allow the most perfect vision. Thus, if the snake has not a glass eye, it may, at any rate, be said to wear eye-glasses.—Selected.

We boast our light; but, if we look not wisely on the sun itself, it smites us into darkness. The light which we have gained was given us, not to be ever staring on, but by it to discover onward things, now remote from all knowledge.—Milton.

He who waits for God is not mispending his time. Such waiting is true living—such tarrying is the truest speed.—Joseph Parker.

# 1,800,000 People

## Have Asked Us to Buy Them a 50c Bottle of Ligozone

dolph; Monroe Williams, C. Breninger, Frankfort; Wm. Acker, Walter Carlson, Vermillion; Herman Anderson, John Olson, I. Fishny, Waterville; Frank Ellenbecker, Marysville; F. L. King, Washington; A. Ajelberg, Vietts.

The consignors to this sale were as follows: Miss Lou Goodwin, L. D. Yarick, A. Borck, B. D. Cooley, Drennon Bros., Blue Rapids; Vermillion Hereford Company, Vermillion; Cottrell Bros., Frank Preston, C. H. Stiles, J. M. Winter, Irving; L. Whiting, Frankfort.

### SUMMARY.

15 head of bulls brought... \$1,200; av. \$80.00  
 33 head of cows brought... 2,315; av. 70.15  
 33 head sold for... 3,515; av. 73.23

### Holderman's Holstein-Friesian Sale.

On Tuesday, November 29, Mr. H. N. Holderman, of Girard, Kans., held a very successful sale at the fair grounds at Topeka. The offering consisted of cows, young bulls, heifers and calves. The average for the cows was \$99.97. Col. J. W. Sparks, of Marshall, Mo.; Col. John W. Wall, of Parsons, Kans.; and Col. Bert Fisher, of Topeka, were the auctioneers. The sale was lively from start to finish, and showed a brisk demand for the heavy-milking Holsteins.

### SUMMARY.

Following is given the sales in detail:

- BULLS.**
- Wyntje Parthena DeKol 35827, J. S. White, Topeka... \$15
  - Crumpy Niko DeKol 35687, Richard Constable, Topeka... 65
  - Niko DeKol Mahomet 35869, E. S. Burton, Topeka... 17
  - Endicott Niko DeKol 35871, Mrs. E. S. Burton, Topeka... 32
  - Parthena DeKol Parthena 35866, W. H. Kistler, Topeka... 65
  - DeKol Beauty Mechthilde 35868, J. P. Mast, Scranton... 55
  - Niko DeKol Lad 35373, M. Callender, Jensen, Neb... 85
  - Parthena Sir Josephine Mechthilde 35098, J. S. St. John, Wamego... 60
  - Parthena Josephine Mechthilde, Charley Peck, N. Topeka... 65
  - St. Josephine Mechthilde Fride 34536, W. H. Coffman, Topeka... 75
  - Duke Parthena Wyntje 34837, E. E. Bonawitz, Topeka... 35
  - Leo Wyntje Fride 35097, O. E. Walker, Topeka... 30
  - DeKol Wyntje Lad 35870, O. E. Walker... 21
  - Parthena DeKol Careme 35964, J. A. Courter, Topeka... 20
  - Parthena Lad DeKol 35965, J. M. Beech, Topeka... 15
  - Dutch DeKol, D. O. Orr, Topeka... 17

### COWS.

- Slemke Josephine 63787, O. Martinson, Topeka... 120
- Josephine Beauty Mechthilde 56141, W. H. Coffman, Station B... 55
- May Mahomet Mechthilde 71147, M. Callender... 60
- Slemke Mechthilde Rosmore 33180, M. B. Weaver, Harper... 75
- Crumpy Empress 63788, Dr. Geo. C. Mosher, Kansas City... 95
- Delana Endicott 63786, B. L. Beam, Cameron, Mo... 150
- Louisa Wyntje 70745, W. H. Holmes, Topeka... 50
- Josephine Mechthilde Parthena 60008, Alvin White, Topeka... 85
- Wintje K. 3d's Fride 63705, H. W. McAfee, Topeka... 70
- Della Mahomet Parthena 50615, Mrs. E. C. Burton... 105
- Jasper Wyntje Parthena 63793, Alvin White... 105
- Dutch Fride 63796, Dr. Geo. C. Mosher, DeLaag Mechthilde 2d 45775, B. L. Bean... 105
- Hilda Josephine 63143, B. L. Bean... 100
- Mabel Wyntje 63785, M. F. Wall... 85
- Henrietta Iva 63791, Dr. G. C. Mosher, Lady Estes 49060, M. E. Moore... 110
- May DeLaag Mahomet 45300, Mrs. E. S. Burton... 105
- Sallie Wyntje 63798, Mrs. E. S. Burton, Sallie Queen 70739, S. E. Hudson, Manhattan... 70
- Duchess Fride, Dr. Geo. C. Mosher... 60
- Nettie Lee Wyntje 67850, W. H. Holmes... 50
- Pearl Henrietta Wyntje 72614, O. E. Walker... 95
- DeKol Iva Etta 72615, J. P. Cooper, Savannah, Mo... 60
- Careme Parthena 72750, O. E. Walker, Mabel Parthena 72751, W. H. Kistler... 85
- Pearl Etta Parthena 72752, W. H. Kistler... 80
- Bessie Mechthilde Parthena 72616, B. L. Bean... 45

### M. L. Ayres' Great Brood Mare Sale.

The veteran importer and breeder of Percheron horses, M. L. Ayres, Shenandoah, Iowa, is booked to sell under the hammer 30 registered brood mares on Wednesday, December 21. The scene of this unusual offering will be laid at the Ayres breeding farm, little more than one mile from town. We violate no confidence when we repeat Mr. Ayres' own words to the effect that this sale will aggregate better values than have ever been presented in any Western sale-ring. In the matter of high-bred character these mares are no less than a long string of big wide-out top-notchers. They were largely bred and reared on the farm. It is in their nature and training to be docile. They are all broke to work. Every mare raised a big strapping fine colt last year. Every mare is now safe in foal, the greater part of them to service of the 2,200-pound black imported stallion Blande (36577). This great horse did a term of service in the celebrated stud of Ernest Parriott, Nogent-le-Roi, France. It is said these famous horsemen have lived on the same farms and bred Percheron horses for a period of one thousand years. Mr. Ayres believes there is no greater horse on earth than old Blande. Go and see his colts and you will know why he thinks so. He can show you as fine strings of big, showy 2-year-olds, yearlings and weanlings as ever walked the earth. Mr. Ayres has no inclination to boast, but he simply wants to show you the goods. See the advertisement and write for catalogue, and kindly mention Kansas Farmer.

### The Spriggs Percheron and Jack Sale.

On Thursday, December 15, at Ottawa, Kans., Mr. S. A. Spriggs, of Westphalia, Kans., will sell at public auction, a draft of choice Percheron stallions and mares, big black mammoth jacks and jennets and Coach stallions. This offering will contain a number of prize-winners.

We offer to buy the first bottle of Ligozone, and give it free to each sick one who asks it. And we have spent over one million dollars to announce and fulfill this offer. Our object has been to let Ligozone itself show what it can do. A test is better than testimonials, better than argument. In one year 1,800,000 people have accepted this offer. They have told others what Ligozone does, and the others told others. The result is that millions now use it. It is more widely employed than any medicine ever was—more widely prescribed by the better physicians. And your own neighbors—wherever you are—can tell you of people whom Ligozone has cured.

### Not Medicine.

Ligozone is not made by compounding drugs, nor is there alcohol in it. Its virtues are derived solely from gas—largely oxygen gas—by a process requiring immense apparatus and fourteen days' time. This process has, for more than twenty years, been the constant subject of scientific and chemical research.

The result is a liquid that does what oxygen does. It is a nerve food and blood food—the most helpful thing in the world to you. Its effects are exhilarating, vitalizing, purifying. Yet it is a germicide so certain that we publish on every bottle an offer of \$1,000 for a disease germ that it can not kill.

Among the jennets that have won in the show ring may be mentioned Queen of Diamonds, who won at the Kansas State Fair, the Franklin County Fair and the Coffey County Fair. She will be sold bred to the show jack, King Jumbo.

Among the prize-winning jacks may be named Black Satin, who won at the same fairs.

Keota Luciana 21704 is the Percheron mare who won first prize at the American Royal in 1903 and Keota Stripe 21711 won second at the same show. Both these mares will be sold. Also Bernice 18851, who was champion at the Kansas State Fair, second at the Missouri State Fair and champion at the Coffey County Fair.

Write at once for catalogue and read about these good things.

### Gossip About Stock.

One of the judges of Shorthorn cattle at the International Exposition last week at Chicago was Mr. John Tomson, of the breeding firm of T. K. Tomson, Elderlaw Farm, Dover, Kans. To Kansas belongs the honor of contributing one of the best judges to one of the greatest live-stock shows on earth.

C. H. Searle, owner of Maple Lawn Herd of Duroc-Jersey swine, Edgar, Neb., has a fine lot of youngsters for sale now, and they are going fast. The stock is all well-bred and in fine condition, and persons needing good Durocs should get busy and visit the Maple Lawn Farm or write their needs and be sure of a fair, square deal.

Master of The Grove, the grand champion Shorthorn bull at the International in Chicago last week, is a Kansas animal. Up to the time of the American Royal at Kansas City he stood at the head of the herd of J. W. Baker, Strong City, Kans. In the American Royal he won third place in competition with the World's Fair prize-winners, who had just returned from St. Louis, covered with the glories which they had won in competition with the world. As our readers know, the grand bull, Choice Goods, stood first, with Whitehall's Sultan second and Master of The Grove, third. The latter was placed in the sale at the American Royal and brought \$1,075 and found a new home in the herd of C. D. Bellows, Maryville, Mo. Mr. Bellows proceeded to give his personal attention to this bull, with the result that he was able to show him at Chicago in wonderful bloom and condition and to carry away the grand champion prize of the Shorthorn breed.

The International Live-Stock Exposition at Chicago is a great educational institution and each year sees its value in this respect increased. One of the new features of the show of 1904, and at the same time one of the most valuable, was the exhibits of market grades and classes of cattle made by the University of Illinois under the direction of Prof. H. W. Mumford. These cattle were housed in a new building just back of the Transit House, which had been erected especially for their accommodation. The effort of the professor in charge had been to show typical animals of all the classes which are sold at the stock yards and listed in the market reports. Above each animal was a printed card, giving the name of the class, the quality, weight, and other valuable information so that any visitor could see at a glance what the type of the class should be. Near the door of the building stood a row of bulls ranging from prime to bologna in type, followed by a series of groups in the cow, steer, and calf classes. Altogether some forty-five different classes were represented and it was found that the greatest interest in the exhibit was taken by the stock-yards men themselves, because of their ready appreciation of the value of such a showing.

The reason is that germs are vegetables; and Ligozone—like an excess of oxygen—is deadly to vegetal matter.

There lies the great value of Ligozone. It is the only way known to kill germs in the body without killing the tissues, too. Any drug that kills germs is a poison, and it can not be taken internally. Medicine is almost helpless in any germ disease. It is this fact that gives Ligozone its worth to humanity. And that worth is so great that, after testing the product for two years, through physicians and hospitals, we paid \$100,000 for the American rights.

### Germ Diseases.

These are the known germ diseases. All that medicine can do for these troubles is to help nature overcome the germs, and such results are indirect and uncertain. Ligozone attacks the germs, wherever they are. And when the germs which cause a disease are destroyed, the disease must end, and forever. That is inevitable.

- |                         |                     |
|-------------------------|---------------------|
| Asthma—Anaemia          | Hay Fever—Influenza |
| Abscess—Kidney Diseases | La Grippe           |
| Bronchitis              | Leucorrhoea         |
| Blood Poison            | Liver Troubles      |
| Bright's Disease        | Malaria—Neuralgia   |
| Bowel Trouble           | Many Heart Troubles |
| Coughs—Colds            | Files—Pneumonia     |
| Consumption             | Pleurisy—Quinsy     |
| Colic—Croup             | Rheumatism          |
| Constipation            | Scrofula—Syphilis   |
| Catarrh—Cancer          | Skin Diseases       |
| Dysentery—Diarrhea      | Stomach Troubles    |
| Dandruff—Dropsy         | Throat Troubles     |
| Dyspepsia               |                     |

was well worth the price of admission many times over.

Immediately following the awards made in the swine show at the World's Fair, Mr. G. G. Council, of Vandalia, Ill., bought the world's champion Berkshire boar, Lord Premier 50001, and now has him at the head of his herd. Although the breeding classes were excluded from the International Show, Mr. Council made an exhibit of fat stock, with which he won every first prize except one, and in addition received seven second prizes, and five third prizes in the Classes. Besides this he won the grand champion prize over all breeds with his pen of five barrows, in competition with twelve other entries. In this competition, every breed of hogs shown at the International was entered with the one exception of the Tamworths, and the Berkshires won. The winning pen of Berkshires was sired by Lord Premier, and all of the prize-winners shown by Mr. Council were of Lord Premier blood. This great boar is remarkable in his history, in that he is the sire of more show hogs than any other boar in the world, and in that his blood won 90 per cent of the premiums given to Berkshire hogs at the World's Fair. Although Mr. Council paid \$1,500 for this world's champion sire, after the awards were made at St. Louis, he has already paid for himself, and the pen of championship barrows at the International were sold at auction for \$2 above the top market price. Associated with Lord Premier are sows which won championships at the American Royal, both senior and junior, as well as the reserve, also the champion sow of 1902 and 1903 at the Illinois State Fair, and the World's Fair champion sow, Duchess 279, by Lord Premier. From this class of stock Mr. Council offers hogs for sale, in his advertisement on page 1219.

There is nothing that gets business like good "horse sense"—that, with a systematic, hustling businessman behind the gun, who always has the goods, and at bargain-counter prices. This man furnishes our fine horse illustration to-day—Frank Iams, of St. Paul, Neb. He owns more pure-bred draft- and coach-stallions to-day than any man in the United States, and it is Iams' motto—"Do business, sell better stallions for less money than any competitor." If you visit him, and can pay cash or give bankable note, he smoothes you with first-class stallions, hypnotizes you with low prices, and you take off your hat and say: "That the half of the good things of Iams and his importing establishment has not been told." He makes every representation and guarantee good. That is one of the best reasons of his wonderful business success. Beginning twenty-three years ago, at St. Paul, Neb., with his hands, meeting competition with a laugh, until to-day, he will show you 150 head of choice imported and home pure-bred Percherons, Belgians and Coaches. They will all look alike to you. "Sensational Black Boys"—like our illustration of "Iams' Alfert" (21682)—Royal Belgian stallion, 3 years old, weight 2,040 pounds; first prize at Nebraska State Fair and Belgium. He is a plum good one in any company. A smooth, even proportioned stallion of wonderful fine finish. His form is superb. His action simply perfection. He is a "Beau Brummel" on dress parade. He is only one of one hundred that Iams imported by special express train August 18, 1904. He has fifty others that were shown at the greatest of State fairs—Nebraska, 1904. They won every first, second and sweepstakes prize in every age and class. A clean sweep that has

Eczema—Erysipelas Tuberculosis  
 Fevers—Gall Stones Tumors—Ulcers  
 Gout—Gout Varicocele  
 Gonorrhoea—Gleet Women's Diseases  
 All diseases that begin with fever—all inflammation—all catarrh—all contagious diseases—all the results of impure or poisoned blood.

In nervous debility Ligozone acts as a vitalizer, accomplishing what no drugs can do.

### 50c Bottle Free.

If you need Ligozone, and have never tried it, please send us this coupon. We will then mail you an order on a local druggist for a full-size bottle, and we will pay the druggist ourselves for it. This is our free gift, made to convince you; to show you what Ligozone is, and what it can do. In justice to yourself, please accept it to-day, for it places you under no obligation whatever.

Ligozone costs 50c and \$1.

### CUT OUT THIS COUPON

for this offer may not appear again. Fill out the blanks and mail it to The Liquid Ozone Company, 458-464 Wabash Ave., Chicago.

My disease is.....  
 I have never tried Ligozone, but if you will supply me with a 50c bottle free I will take it.  
 (W-211).....  
 Give full address—write plainly.

Any physician or hospital not yet using Ligozone will be gladly supplied for a test.

### FROM MAKER TO USER

**BUY DIRECT FROM MAKER**  
**SAVE DEALER'S PROFITS**  
 Finest Line and Highest Grade of Goods in U. S. at no greater cost than ordinary kind. We make these goods ourselves. Money can buy no better. Our 20 years reputation stands back of every purchase made.

**100 Styles Hand Made STOCK SADDLES. 25 Styles Best SHOP MADE BOOTS. 25 Styles Built-to-Wear HIGH GRADE HARNESS.** Buy nothing in our line until you get our NEW CATALOG, sent free.

**STOCK YARDS HARNESS CO.,**  
 Chas. P. Shipley, Proprietor,  
 1539 OENESEE ST., KANSAS CITY, MO.

never been equaled by any horseman in the United States.

The proof of the business is, in having the horses. Iams always has them. And there is always "something doing" at his place of business. You will do business if you visit him.

You say: "Why can Iams sell superior stallions at his prices?" Because Iams is an up-to-date business man. He buys stallions by the train-load, gets cheap transportation, lives in a country where feed is cheap; knows how and where to buy them right; sells every stallion at his home barns; employs no high-priced buyers, salesmen, commissionmen or interpreter; has no three to ten men to divide profits with; has his own money to do business with, and handles only first-class stallions. Only fourth-rate stallions are peddled or sold at public sales. Here are fifteen money-saving reasons why Iams can and will sell you a better stallion at \$1,000 and \$1,500 than are being sold by con salesmen to "Stock Companies" at \$2,500 to \$5,000. If you do not find this so on a visit to Iams' barns, he will pay you \$100 for your trouble. You the judge.

Write for the greatest horse catalogue on earth. You will read it. You can't help it. It is full of meat.

Iams will be pleased to see you. He has a "horse show" daily.

### Very Low Excursion Rates for Christmas Holidays

to all points on the Nickel Plate Road between Chicago and Buffalo. Excursion tickets on sale December 24, 25, 26, and 31, 1904, and January 1 and 2, 1905, good returning January 4, 1905. Three through express trains daily. No excess fare charged on any train. Also lowest rates and shortest line to Cleveland, Buffalo, New York, Boston and all Eastern points. Modern sleeping and dining-cars. Individual Club Meals, ranging in price from 35 cents to \$1, served in Nickel Plate dining-cars; also service a la carte. All trains leave from La Salle St. Station, Chicago. City ticket office, Chicago, Ill., 111 Adams St. and Auditorium Annex. For further particulars address John Y. Calahan, General Agent, 113 Adams St., Room 298. (33)

### Opportunities.

Good openings for all lines of business and trade in new towns. Large territory thickly settled. Address Edwin B. Maggill, Mgr., Townsite Department, Chicago Great Western Railway, Fort Dodge, Iowa.

**PILES** NO MONEY TILL CURED. 27 YEARS ESTABLISHED.  
 We send FREE and postpaid a 232-page treatise on Piles, Fistula and Diseases of the Rectum; also 108-page illus. treatise on Diseases of Women. Of the thousands cured by our mild method, none paid a cent till cured—we furnish their names on application.  
 3969 Olive Street, St. Louis, Mo.,  
**DRS. THORNTON & MINOR,** and 1007 Oak St., Kansas City, Mo.

## In the Dairy

### Experimenting With Dairy Cows.

EXCERPTS FROM BULLETIN NO. 125, KANSAS EXPERIMENT STATION, BY D. H. OTIS.

(Continued from last week.)

#### DAIRYING WITH COMMON COWS.

For a number of years this station kept representatives of pure-bred dairy cattle. In giving the results obtained by these cattle to the public, the expression was frequently heard that the experiments carried on by our agricultural experiment station were with a class of cattle that an average Kansas farmer could not possibly possess and the results were of comparatively little value to him.

In January, 1898, the college brought a herd of common cows from Lincoln County, Kansas. These cows were bought by a man not especially versed as to the characteristics of a dairy animal. These did not represent the best dairy animals from the county, for the best could not be obtained, as they were not for sale; they represented what we might call, average cows. The illustrations of some of these cows as they appeared when they were brought to this station are given in this bulletin, showing that they were certainly not above the average. Every effort was put forward to stimulate these cows in milk-production, and accurate records were kept of the milk produced and the feed consumed. The yield of milk, the test and the pounds of butter-fat produced from these cows are given herewith:

Table IV.—Yearly records of common cows.

Cow No.	Period covered by record.	Milk. lbs.	Av. Butter-test. per cent.	fat. lbs.
1 Jan. 1898 to Jan. 1899.	5,904.0	4.62	272.70	
1 Mar. 1899 to Mar. 1900.	4,759.0	4.78	227.70	
3 Jan. 1898 to Jan. 1899.	5,864.0	3.99	233.90	
4 June 1898 to June 1899.	5,824.0	3.89	226.90	
4 Dec. 1899 to Dec. 1900.	4,473.4	3.80	170.43	
5 Jan. 1898 to Jan. 1899.	3,583.0	3.79	135.70	
6 Jan. 1898 to Jan. 1899.	6,269.0	4.09	256.40	
6 Apr. 1899 to Apr. 1900.	6,668.4	3.85	257.31	
7 Jan. 1898 to Jan. 1899.	7,015.0	4.43	310.80	
7 Apr. 1899 to Apr. 1900.	7,994.5	4.18	333.06	
7 Apr. 1900 to Apr. 1901.	6,966.4	4.80	334.55	
8 Feb. 1898 to Feb. 1899.	5,549.0	4.20	233.30	
8 Dec. 1899 to Dec. 1900.	6,361.6	4.30	273.63	
9 Jan. 1898 to Jan. 1899.	6,504.0	4.59	289.50	
9 Feb. 1899 to Feb. 1900.	5,188.1	4.49	233.29	
10 Jan. 1898 to Jan. 1899.	6,589.0	3.51	230.90	
10 Jan. 1899 to Jan. 1900.	4,454.6	3.80	169.44	
11 Jan. 1898 to Jan. 1899.	3,475.0	5.14	178.60	
11 Apr. 1899 to Apr. 1900.	5,947.3	4.84	288.17	
12 Feb. 1898 to Feb. 1899.	5,921.0	4.62	273.40	
12 Nov. 1899 to Nov. 1900.	6,249.9	4.71	255.46	
14 May 1898 to May 1899.	8,054.0	4.13	332.80	
14 May 1899 to May 1900.	5,610.0	3.97	223.23	
14 June 1900 to June 1901.	8,195.9	3.85	316.22	
14 June 1901 to June 1902.	5,705.4	3.76	214.81	
14 June 1902 to June 1903.	2,456.2	4.04	99.39	
15 Jan. 1898 to Jan. 1899.	6,509.0	4.27	277.90	
16 Jan. 1898 to Jan. 1899.	6,700.0	4.01	268.80	
17 Jan. 1898 to Jan. 1899.	5,236.0	3.97	207.80	
18 Jan. 1898 to Jan. 1899.	5,023.0	4.12	206.90	
19 Jan. 1898 to Jan. 1899.	3,913.0	4.14	161.90	

Period	Milk. lbs.	Av. Butter-test. per cent.	fat. lbs.
20 Jan. 1898 to Jan. 1899.	9,116.0	4.21	383.70
20 June 1899 to June 1900.	8,675.6	4.17	361.82
20 Aug. 1900 to Aug. 1901.	9,336.5	3.99	373.21
20 Aug. 1901 to Aug. 1902.	8,238.7	4.02	331.57
20 Aug. 1902 to Aug. 1903.	6,711.7	4.04	271.46
22 Apr. 1898 to Apr. 1899.	5,960.0	3.77	224.80
23 Apr. 1898 to Apr. 1899.	7,307.0	3.99	291.40
23 May 1899 to May 1900.	7,072.4	3.99	282.21
23 May 1900 to May 1901.	7,838.9	3.70	290.62
24 Apr. 1898 to Apr. 1899.	5,742.0	3.48	199.80
24 Apr. 1899 to Apr. 1900.	8,077.6	3.44	278.31
25 Apr. 1898 to Apr. 1899.	5,952.0	4.23	251.50
26 Apr. 1898 to Apr. 1899.	5,797.0	4.33	251.00
27 Apr. 1898 to Apr. 1899.	4,200.0	3.96	166.30
28 Apr. 1898 to Apr. 1899.	2,141.0	4.74	101.50
29 Apr. 1898 to Apr. 1899.	3,730.0	4.23	157.80
30 Apr. 1898 to Apr. 1899.	2,903.0	4.13	119.90
32 Apr. 1898 to Apr. 1899.	4,039.1	4.32	174.60
33 Apr. 1898 to Apr. 1899.	4,772.0	3.92	187.00
33 May 1899 to May 1900.	8,184.9	3.71	303.84
33 June 1900 to June 1901.	8,629.7	3.68	317.85
33 June 1901 to June 1902.	7,325.8	3.63	266.34
33 June 1902 to June 1903.	8,946.4	3.62	252.54
34 Jan. 1900 to Jan. 1901.	5,400.7	3.83	207.22
34 Jan. 1901 to Jan. 1902.	5,398.8	3.68	198.98
58 Jan. 1902 to Jan. 1903.	3,330.6	5.03	167.65
59 Jan. 1900 to Jan. 1901.	7,796.3	3.79	295.95
60 Jan. 1900 to Jan. 1901.	5,827.8	4.41	257.18
60 Jan. 1901 to Jan. 1902.	5,253.4	4.42	232.67
61 Jan. 1900 to Jan. 1901.	8,001.8	3.31	265.05
61 Jan. 1901 to Jan. 1902.	7,152.7	3.68	226.93
61 Jan. 1902 to Jan. 1903.	2,463.1	3.54	87.21
62 May 1900 to May 1901.	8,112.0	3.27	265.75
62 May 1901 to May 1902.	7,144.3	3.49	249.85
63 Sep. 1900 to Sep. 1901.	5,832.4	3.99	233.05
63 Sep. 1901 to Sep. 1902.	7,776.7	4.07	317.12
64 Mar. 1901 to Mar. 1902.	5,759.7	4.55	262.55
64 Mar. 1902 to Mar. 1903.	3,935.2	4.45	175.17
64 Mar. 1903 to Mar. 1904.	7,329.4	3.66	268.96
65 Feb. 1900 to Feb. 1901.	9,500.8	3.51	333.67
66 Apr. 1901 to Apr. 1902.	6,376.8	3.46	221.09
66 Apr. 1902 to Apr. 1903.	6,376.8	3.46	221.09
67 Feb. 1900 to Feb. 1901.	6,504.4	4.12	268.13
68 Feb. 1900 to Feb. 1901.	6,699.5	3.71	248.95
68 Feb. 1901 to Feb. 1902.	4,127.9	3.71	153.37
68 Feb. 1902 to Feb. 1903.	5,776.9	3.84	221.89
69 Jan. 1900 to Jan. 1901.	9,507.0	3.45	328.42
70 Jan. 1900 to Jan. 1901.	8,268.8	3.40	281.23
70 Jan. 1901 to Jan. 1902.	5,463.3	3.62	197.95
70 Jan. 1902 to Jan. 1903.	4,174.8	4.44	185.48
71 Dec. 1899 to Dec. 1900.	7,246.2	4.22	306.00
72 Feb. 1900 to Feb. 1901.	7,443.1	4.27	318.07
72 Feb. 1901 to Feb. 1902.	4,278.1	4.53	193.92
72 Feb. 1902 to Feb. 1903.	8,166.5	2.97	242.81
128 Nov. 1900 to Nov. 1901.	6,976.7	3.23	281.66
128 Nov. 1901 to Nov. 1902.	7,322.9	4.05	296.63
129 Aug. 1900 to Aug. 1901.	6,664.2	3.91	260.41
129 Aug. 1901 to Aug. 1902.	6,664.2	4.59	306.23
130 July 1900 to July 1901.	7,634.9	4.46	341.01
130 July 1901 to July 1902.	5,979.9	4.37	261.57
130 July 1902 to July 1903.	8,357.0	4.28	357.79
131 July 1901 to July 1902.	6,524.1	4.36	284.46
131 July 1902 to July 1903.	6,460.4	4.44	286.98
131 July 1903 to July 1904.	9,016.6	3.26	294.39
166 Apr. 1901 to Apr. 1902.	7,179.5	3.37	242.13
166 Apr. 1902 to Apr. 1903.	5,500.2	3.64	200.22
168 Apr. 1901 to Apr. 1902.	5,428.2	3.73	202.63
168 Apr. 1902 to Apr. 1903.	6,737.2	4.29	289.62
236 Feb. 1902 to Feb. 1903.	6,318.6	3.32	209.97
238 Feb. 1902 to Feb. 1903.	7,636.4	3.84	293.68
240 May 1902 to May 1903.	6,790.0	4.13	280.50
241 Feb. 1902 to Feb. 1903.	5,649.5	5.73	324.08
242 Feb. 1902 to Feb. 1903.	6,488.0	4.65	301.87
244 Feb. 1902 to Feb. 1903.	8,444.8	3.61	305.30
245 Feb. 1902 to Feb. 1903.	5,818.3	3.72	216.47
246 Feb. 1902 to Feb. 1903.	4,118.7	5.54	228.58

Av. per cow per year. 6,288.58 3.99 251.24

The figures in the above table are given to show the milk-production of common cows, and also to show the variations that take place in individuals. It will be noticed that some of the best cows are decreasing in their yields with advancing age. The variations in herds are shown under the creamery patrons' investigation. Some very interesting and instructive comparisons can be drawn from these individual cows. Table V shows the best yearly record from the best ten cows.

Table V.—Best yearly record of best ten cows.

Cow No.	Period covered by record.	Milk. lbs.	Av. Butter-test. per cent.	fat. lbs.
7 Apr. 1900 to Apr. 1901.	6,966.4	4.80	334.55	
14 May 1898 to May 1899.	8,054.0	4.13	332.80	
20 Jan. 1898 to Jan. 1899.	9,116.0	4.21	383.70	
33 June 1900 to June 1901.	8,629.7	3.68	317.85	
66 Apr. 1900 to Apr. 1901.	9,500.8	3.51	333.67	
70 Jan. 1900 to Jan. 1901.	9,507.0	3.45	328.42	
72 Feb. 1901 to Feb. 1902.	7,443.1	4.27	318.07	
130 July 1901 to July 1902.	7,634.9	4.46	341.01	
131 July 1900 to July 1901.	8,357.0	4.28	357.79	
242 Feb. 1902 to Feb. 1903.	5,649.5	5.73	324.08	

Av. per cow per year... 8,085.8 4.17 337.19

In this table it will be noticed that even the best cows vary considerably in the yield of milk, the per cent of butter-fat, and the total production of fat. The averages of these show that they are all excellent milkers; they produced 281 pounds of butter-fat above the average of the State, and 232.6 pounds of butter-fat above the average obtained in the creamery patrons' investigations.

The poorest yearly record, as given in Table VI, shows some marked contrasts.

Table VI.—Poorest yearly record of poorest ten cows.

Cow No.	Period covered by record.	Milk. lbs.	Av. Butter-test. per cent.	fat. lbs.
5 Jan. 1898 to Jan. 1899.	3,583.0	3.79	135.70	
10 Jan. 1899 to Jan. 1900.	4,454.6	3.80	169.44	
19 Jan. 1898 to Jan. 1899.	3,913.0	4.14	161.90	
27 Apr. 1898 to Apr. 1899.	4,200.0	3.96	166.30	
28 Apr. 1898 to Apr. 1899.	2,141.0	4.74	101.50	
29 Apr. 1898 to Apr. 1899.	3,730.0	4.23	157.80	
30 Apr. 1898 to Apr. 1899.	2,903.0	4.13	119.90	
58 Jan. 1902 to Jan. 1903.	3,330.6	5.03	167.65	
61 Jan. 1902 to Jan. 1903.	2,463.1	3.54	87.21	
68 Feb. 1901 to Feb. 1902.	4,127.9	3.71	153.37	

Averages.... 3,484.62 4.07 142.077

The poorest cows also show considerable variation among themselves, as well as the best ten cows. Narrowing the two comparisons down to a still smaller number of cows, we have the results obtained in Table VII.

Table VII.—Best five and poorest five cows compared.

	Milk. lbs.	Av. Butter-test. per cent.	fat. lbs.
Av. of best five cows...	8,255.02	4.24	350.14
Av. of poorest five cows...	3,043.60	3.92	119.63
Differences....	5,211.42	....	230.61

It is still interesting to note the differences between the best cow and the poorest cow. These are given in Table VIII.

Table VIII.—Best cow and poorest cow compared.

	Milk. lbs.	Av. Butter-test. per cent.	fat. lbs.
Best cow (No. 20).....	9,116.0	4.21	383.70
Poorest cow (No. 61).....	2,463.1	3.54	87.21
Differences..	6,652.9	....	296.49

The Profits.—As with the herds so with the individuals: the total production does not tell anywhere near the entire story. We must deduct the cost of feed. In figuring the cost of feed there are two methods employed: First, charging up all feeds at the local price in Manhattan at the time the feeds were purchased. The other is taking the average price obtained by our farmers, which we have assumed to be 50 cents per hundred for grains and \$4 per ton for hay. Where feed is charged at the local prices, it should be borne in mind that there are two sources of profit: First, from raising feed; and second, the profit from using that fed through the medium of the cow, to be converted into milk and butter-fat. So, when we figure up the income for dairy cows, we must also bear in mind that the cows are also furnishing us a good market for the farm products besides returning a great deal of fertility to the land.

Taking the above summaries of the cows from the college herd, and giving them credit for butter-fat produced at creamery prices, skim-milk

**600,000 IN USE**

# DE LAVAL CREAM SEPARATORS

**THE DE LAVAL SEPARATOR CO**

74 CORTLANDT ST. NEW YORK.      RANDOLPH & CANAL ST. CHICAGO.

at 15 cents per hundredweight, and charging them with the feed consumed, we have the results obtained in Table IX.

An examination of this table reveals the fact that very little more feed is required for a good cow than for a poor one. It also shows the possibilities in the way of profits where the feeds are raised and fed on the farm, charging the cow a fair price for them there, and eliminating the expense of hauling to and from market.

After deducting the cost of feed, it will be seen that there is a very great difference in the balance that is left in the different classes of cows. It shows that one good cow is worth a good many poor cows. It shows that a small herd of choice cows are worth several herds of medium or poor cows. It emphasizes the fact that we must look for better cow machines if we are to get the best results from dairying. It shows that under the same treatment, with the same care, some cows have the capacity to convert feed into milk at a profit, which in some cases may be a large profit,

Table IX.—Profits after deducting cost of feed.

	Income from dairy prod-ucts.		Cost of feed.		Profits.	
	Local prices.	Farm prices.	Local.	Farm.	Local.	Farm.
Averages per head of ten best cows.....	\$68.61	\$48.32	\$16.74	\$19.69	gain	\$51.87 gain
Averages per head of ten poorest cows...	28.30	29.04	11.73	.72 loss		16.57 gain
Differences.....	\$40.31	\$19.28	\$ 5.01	\$20.41		\$35.30
Averages per head of five best cows.....	\$70.03	\$49.26	\$17.23	\$20.77	gain	\$52.80 gain
Averages per head of five poorest cows...	23.76	28.34	11.53	4.58 loss		12.18 gain
Differences.....	\$46.27	\$20.92	\$ 5.65	\$25.35		\$40.62
Best cow (No. 20).....	\$73.17	\$52.80	\$18.88	\$40.37	gain	\$54.29 gain
Poorest cow (No. 61).....	22.51	27.04	11.92	4.53 loss		10.59 gain
Differences.....	\$50.66	\$ 5.76	\$ 6.96	\$44.90		\$43.70

# Sharples Tubular SEPARATORS

**Just as They Are**



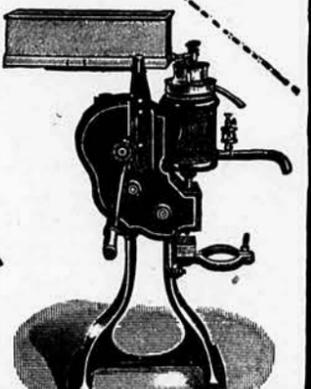
The cut shows them—catalog I-165 tells all about them. Notice the low supply can, bottom feed, wholly enclosed gears, absence of oil cups or holes. No other separator has these advantages.

The Sharples Co. Chicago, Ill.      P. M. Sharples West Chester, Pa.

# U.S. CREAM SEPARATOR

## CAN STAND THE SEARCH LIGHT OF INSPECTION

OTHER SEPARATORS do well sometimes, but **DO NOT AVERAGE TO SKIM** as close as the U. S.



**THE U. S. HOLDS WORLD'S RECORD**

**BEST SKIMMING** for 50 consecutive runs: average .0138.

Gearing is all enclosed. Solid frame, has no joints to work loose.

Special catalogue telling you all about the superior construction of the U. S. that enables it to attain such an enviable and unequalled record; send for it to-day. Address

**THE VERMONT FARM MACHINE CO.,** Bellows Falls, Vt.

Transfer points in all parts of the country.

## Best Butter-Fat Market in Kansas

We will pay for butter-fat in first quality cream 23 cents, which is 1/4 cent higher than the New York market at the present time. All express charges paid to Winfield and empties returned free of charge. A trial shipment will convince you we have the best butter-fat market in Kansas.

**THE J. F. BADEN PRODUCE CO., Winfield, Kansas.**

while others utilize their feed at a loss or at a very small profit.

Under the creamery investigation we found great variation in herds. With the common cows at the Kansas State Agricultural College we find great variations in individuals. From these two studies we see the great possibilities for improvement, and we can see how it is possible for a man to weed out his poor cows so as to get a herd that will not only be a joy and a pleasure to handle but will mean much more money in his pocketbook.

**Change in Appearance.**—At the same time these common cows were making the records given above, a change was also taking place in their outward appearance. The form of the cows underwent a transformation. When they arrived at the college the underline of some of them seemed to have an upward curve, but by receiving good feed and good care the underline was changed to a downward curve. These changes in their appearance show that it is possible to materially improve the cows that we now have by feed and care.

(To be continued.)

## The Veterinarian

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

**Lump on Horse's Head.**—I have an old horse that has a hard lump larger than a walnut on the top of his head back of the headstall halter-strap. It is hard and not very sensitive; I do not believe he would flinch when I press it, if he were not afraid I was going to put on some liniment that will smart. It has been in this condition about two months and remains the same.

R. E.

Fairview, Kans.

**Answer.**—If the lump becomes quite sensitive to touch it is very evident that there is pus in the swelling, and your best treatment would be to have it opened. Should this lump not give your horse any particular inconvenience, and as he is quite old, it would probably be just as well not to cause the old horse any pain in his last days.

**A Conundrum.**—I have been told by several "hoss doctors" that there is a drug which can be given to a horse or other animal, and put them in a hypnotic state of mind so that they will follow you anywhere. Is there any truth in it?

O. W.

Balleyville, Kans.

**Answer.**—If there is any such drug as you mention, I do not know of it. There are, however, various drugs which have an effect similar to those which cause horses to appear as though they had been loosed but the horses will do just about as they please. These would not be practical to use on horses just for the sake of trying to cause the dumb brutes to follow you.

**Lice on Cattle.**—My stock is infested with lice. The cattle are affected mostly about the horns and ears. The hair is almost covered with nits but the stock is in fair condition. Lice are apparently from hogs, because the calves and hogs have slept in almost the same bed this fall. How can I get rid of the lice?

A. C. C.

Walnut, Kans.

**Answer.**—One of the coal-tar products, such as Zenoleum, used in about a 20 per cent solution, scrubbed around the cows' horns will rid the cattle of

the lice. If your pigs are badly infected, you will probably have to dip them. Use a gallon of the Zenoleum to about a hundred gallons of water. After they have been dipped the first time, wait about ten days and repeat the process.

**Spavin.**—Bunches on Pigs After Castration.—I have a gray mare, 4 years old, which has what is called a bone-spavin on the left hind leg below and inside the hock-joint. It is the size of a small egg cut in two lengthways and is grown to the bone and is as hard as the bone. We never noticed it until about three or four months ago. Then we bought a \$1 bottle of Kendall's spavin cure. We could not see that it benefited her, but it might have stopped it from growing larger. I saw in the KANSAS FARMER two or three weeks ago an account of bone spavin; but this seems to be different. That was soft and this is hard like bone. I would like to know if it can be cured. She is not very lame, only in turning, and in running; we hardly notice it. The same mare has a running eye. It has been running more than a year; it stopped this fall, but is running again. The eye looks sound to me and is bright and clear; the discharge is white.

We also have hogs that have buches caused by castrating. I cut one bunch open and there was gas or wind and pus in it. Does it need more treatment?

Bigelow, Kans.

**Answer.**—For the mare with bone-spavin, it might be well to try blistering it at intervals of every three weeks for three or four months; the chances are that it will be cured. I would recommend using a fly blister prepared as follows: One ounce of biniodide of mercury, 1 ounce of pulverized cantharides and 8 ounces of lard, mixed thoroughly together. For her eye, you had better examine it thoroughly and see if there is anything which might cause an irritation there.

The pigs will probably need to be operated on again, as the lumps will continue growing and eventually kill the pigs. After operation, wash out the cavity with a 5-per-cent solution of carbolic acid.

**Calves Out of Condition.**—We castrated twelve head of high-grade Hereford calves on November 17; they seemed to do all right for three or four days, then they commenced to swell and the swelling extended to the front legs, and in a week two were dead; in the last two days two more have died, and one is swelled so badly that he has but one chance in a dozen to live. I would like to ask, first, where were we at fault? What may have caused it? The neighbor of mine that cut these calves has used this knife for a good while. Secondly, is there anything in the full or dark of the moon? Some say there is. Thirdly, could anything have been done for the calves after they started to swell so badly? I kept them in the barn and greased them with turpentine and lard.

S. W.

Alma, Kans.

**Answer.**—Your calves, no doubt, became infected during the operation, which caused the formation of an abscess. The pus from this abscess could not escape, thus causing the swelling and finally the death of the calves. It is always best to see that the instruments used in performing these operations are perfectly clean and a disinfectant like a 5-per-cent Zenoleum solution used to wash out the cavity.

In regard to performing operations at the right time of the moon will say that, personally, I do not believe in it.

C. L. BARNES.

Where Get World's Fair Prizes.

EDITOR KANSAS FARMER:—I see by the FARMER that I won a bronze medal on wheat at the St. Louis World's Fair. Where am I to get it, and how? Or do they sent it when they get ready?

W. W. WHEELER.

Ottawa County.

We have not been able as yet to learn just what the winners of medals at the World's Fair should do. The Kansas Commissioners have not re-

turned to Topeka. But it will be well to write the secretary of the commission, Hon. Chas. H. Luling, Topeka, for information.

Feed Cooking and Feed Cookers.

There is little occasion these days to tell feeders of the advantages of cooking food. All are agreed that it has benefits. They may disagree as to how much farther a given quantity of cooked food will go than if fed in its natural state. There are those who claim that the nutritive value of corn is enhanced as much as a hundred per cent by being cooked. Whether the value be double or less, one thing is beyond cavil, and that is that through the mere thorough digestion and assimilation of the food consumed, a great leakage in feed is stopped. Feed-



ers generally have come to understand this, and hence, cookers are coming to be the rule rather than the exception on the farm. A point not so well settled among farmers is the choice of a cooker best adapted to their purposes. In this connection we desire to mention a cooker regularly advertised in these columns, the one manufactured by the Electric Wheel Co., of Quincy, Ill. This concern has made a study of cookers. From every standpoint, their cooker seems to leave little to be desired. It is made in five sizes from 25 up to 100 gallons. It is light, a man being able to carry it anywhere. Feeders appreciate it all the more because it is extremely simple. Then, it does not matter what kind of fuel is at hand, as cobs, coal, chunks of wood up to a good sized stump, the Electric Cooker is adapted to its use. The boiler is galvanized steel, the furnace best cast iron and sheet steel plates. The furnace door, frame, hearth, and grates, are made of the best cast iron. The linings and sides are made of sheet steel plates. The steel linings prevent any burning or warping where furnace is concerned and can be renewed, if burned. The air between the furnace and outside sheets passes into the fire-box and out through the smoke-stack, thus increasing the heating capacity and saving fuel. Less fuel is required to produce the heat desired, and this cooker heats quicker than any other cooker made. These furnaces should last a lifetime, as the linings can be renewed. In addition to its main purpose, feed-cooking, it is well suited for water-heating and is found most convenient at butchering time, for boiling clothes, rendering lard, making soap, etc. This cooker can be turned into a nice heating-stove which can also be used for cooking by the addition of a cast-iron top plate, furnished at a very small cost. Full particulars may be had by writing the manufacturers for descriptive circular. First consult the advertisement elsewhere for correct address.

Christmas Holiday Excursion Rates

via the Nickel Plate Road, December 24, 25, 26, and 31, 1904, and January 1 and 2, 1905, good returning January 4, 1905, at a fare and a third for the round trip, between Chicago and Buffalo. Three through express trains daily to Ft. Wayne, Findlay, Cleveland, Erie, Buffalo, New York, Boston and all Eastern points. Through Pullman sleepers and excellent dining-car service, individual Club Meals, ranging in price from 35 cents to \$1, being served in Nickel Plate dining-cars; also service a la carte. No excess fare charged on any train. Chicago depot, Van Buren and La Salle Sts. City ticket offices, 111 Adams St. and Auditorium Annex. All information given upon application to John Y. Calahan, General Agent, 113 Adams St., Room 298. (34)

Portland and Northwest

Without change via Union Pacific. This route gives you 200 miles along the matchless Columbia River, a great part of the distance the trains running so close to the river that one can look from the car window almost directly into the water. Two through trains daily with accommodations for all classes of passengers. This will be the popular route to Lewis & Clark Exposition 1905. Inquire of J. C. Fulton, Depot Agent; F. A. Lewis, City Ticket Agent, 525 Kansas Avenue.

The Right Road.

The Chicago Great Western Railway offers superior service and lowest rates to any one contemplating a trip to Chicago, St. Paul, Minneapolis or Des Moines. For further information apply to G. W. Lincoln, T. P. A., 7 West 9th St., Kansas City, Mo.

All things considered, the best place to put manure is on the surface of a freshly plowed soil, scattering direct from the wagon.

## Keep the Boys Near to Nature



## With a STEVENS

make manly men of them—strong of arm, quick of eye and steady of nerve. There is nothing a boy enjoys more than a good gun, and there are no better or safer guns made than "Stevens."

**FREE PUZZLE.**—Our clever "Rifle Puzzle" will be mailed postpaid if you ask for it—it's fascinating; "easy when you know how."

**Send for Our Free Book** of 140 pages which tells about the "Stevens"—gives pictures and prices, with many interesting articles on hunting, target shooting, rifle hints, etc., enclosing 4c. to cover postage.

J. STEVENS ARMS AND TOOL CO.,  
404 Pine Street,  
Chicopee Falls, Mass., U. S. A.

## My Breath.

### Shortness of Breath Is One of the Commonest Signs of Heart Disease.

Notwithstanding what many physicians say, heart disease can be cured.

Dr. Miles' New Heart Cure has permanently restored to health many thousands who had found no relief in the medicines (allopathic or homeopathic) of regular practicing physicians. It has proved itself unique in the history of medicine, by being so uniformly successful in curing these diseases.

Nearly always, one of the first signs of trouble is shortness of breath. Whether it comes as a result of walking or running up stairs, or of other exercises, if the heart is unable to meet this extra demand upon its pumping powers—there is something wrong with it.

The very best thing you can do, is to take Dr. Miles' New Heart Cure. It will go to the foundation of the trouble, and make a permanent cure by strengthening and renewing the nerves.

"I know that Dr. Miles' New Heart Cure is a great remedy. For a number of years I suffered from shortness of breath, smothering spells, and pains in my left side. For months at a time I would be unable to lie on my left side, and if I lay flat on my back would nearly smother. A friend advised using Dr. Miles' New Heart Cure, which I did with good results. I began to improve at once, and after taking several bottles of the Heart Cure the pains in my side and other symptoms vanished. I am now entirely well. All those dreadful smothering spells are a thing of the past."—F. P. DRAKE, Middletown, O.

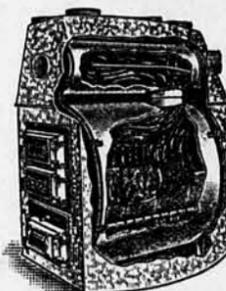
If the first bottle does not help you, the druggist will refund your money.

**FREE** Write to us for Free Trial Package of Dr. Miles' Anti-Pain Pills, the New Scientific Remedy for Pain. Also Symptom Blank. Our Specialist will diagnose your case, tell you what is wrong, and how to right it. Free. DR. MILES' MEDICAL CO., LABORATORIES, ELKHART, IND.

## HEAT YOUR HOUSE

...WITH....

### Bovee's Compound Horizontal Radiator Furnace.



Saves one-third of fuel. A complete high-grade, first-class heating plant, made of the very best material that can be secured, with great heating capacity, economical of fuel and very durable. Any handy man can install one in a short time. Burns any kind of coal or wood. Get our free catalogue and save one-half the cost of your heating plant. Address, mentioning this paper,

The Bovee Grinder & Furnace Works, Waterloo, Iowa



## BARBERS

**MAKE EASY MONEY**  
We teach the business thoroughly in 6 weeks. You can make expenses while learning. Barbers make \$15 to \$25 weekly. Our FREE Catalog tells about it. Write today. Kansas City Barber College, P. O. Bridgford, Prop., 803 Delaware, Kansas City, Mo.

## ZENOLEUM

Famous OOAI-TAR Carbolic Dip

For general use on live stock. Send for "Piglets Troubles" and "Zenoleum Veterinary Advisor" and learn its uses and what prominent stockmen say about it. Books mailed free. All druggists or one gal., exp. paid. \$1.50; 5 gal., freight paid. \$6.25  
ZENNER DISINFECTANT CO., 81 Bates St., Detroit, Mich

# The Poultry Yard

CONDUCTED BY THOMAS OWEN.

## Observe Cleanliness.

What a multitude of evils, in and around the poultry-house, might be avoided by observing the degree of cleanliness which is absolutely essential to the health and well-being of the fowls. When it becomes a part of the regular system of management, as it invariably should, it does not become so difficult; but when cleaning time is left until the urgency of the matter leaves no room for further delay, it is not only more of a task, but the results are not so satisfactory, especially if some of your finest birds sicken and die in the meantime, entailing no small degree of loss. It is a well-known fact, by the whole rank and file of our most successful breeders, that it is easier to keep clean than to make clean, while it invariably pays far better. A few minutes of easy labor expended in that quarter each day, usually suffices to keep the premises neat, pure and clean, and such an expenditure is not at all felt, even by those whose time is well taken up by the many duties of a business calling of another kind. There are far too many poultry-houses which get only one or two regular cleanings in a year, and during the interval, the parasites hold high carnival, breeding in countless thousands, harassing the peace of the fowls, and often sowing the seeds of disease which after-care may be unable to eradicate. Remember that it is not essential that the poultry-house be perfectly free from dust, for lots of dust is a good thing for the fowls and bad for the lice; but the droppings should be cleaned out at least twice a week, if not every day. Much sickness among fowls would be avoided if their houses were kept cleaner.

## Oyster Shells for Laying Hens.

Every breeder of chickens is aware that his fowls need grit of some kind in order to grind their food, but we fear that many of them do not always provide enough of this necessary article. On some farms where the land is gravelly or stony it is not essential to provide grit for the fowls, but where there is an entire absence of gravel in the soil, and especially where the fowls are penned up, it is as necessary for them to have grit as to have food. A sharp granite of some kind is considered one of the best materials for grit, though oyster-shells have been used quite extensively for this purpose also. But it has been proved that oyster-shells are good for making shell material for the egg as well as good for grit. An experiment in the New York State Agricultural Station was made to find out the utility of oyster-shells. Six 1-year-old Leghorn hens were chosen, three of which were fed coarse ground oyster-shells and three were fed coarse broken glass. Both lots were kept confined in cleanly swept pens having a floor of matched boards. In the first period, March 30 to April 19, wheat, fresh cabbage, and a grain mixture composed of corn-meal, wheat bran, wheat middlings, and old-process linseed-meal were fed to both lots; and in the second period, lasting until May 3, boiled eggs were added. The eggs were collected the last ten or twelve days of each period. The percentage of water, ash, and calcium carbonate contained in each kind of food and in the eggs laid during each period, and the amount of food consumed are tabulated for each lot. The results for the lot receiving oyster-shells were as follows:

During the first period, the hens laid 12 eggs, 1 pound of eggs being produced from 3.95 pounds of water-free food. These eggs contained calcium equal to 48.43 grains of carbonate of lime, the shells alone containing 47.74 grains. The grain and cabbage consumed and the drinking water given them contained altogether 7.62 grains of carbonate of lime. The oyster-shells taken by them contained 93.80 grains of carbonate of lime. During

the second period the hens laid 21 eggs, which were produced at the rate of 1 pound for every 2.59 pounds of water-free food. These eggs contained calcium equal to 87.88 grams of carbonate of lime, the shells alone containing 86.6 grams. The food consumed and drinking water given them tained calcium equal to 87.88 grams of carbonate of lime. The oyster-shells taken by them contained 180.99 grams carbonate of lime. Of the carbonate of lime contained in the eggs during the first period, 40.81 grams (over 84 per cent), and of that in the eggs during the second period, 77.80 grams (over 86 per cent), are unaccounted for, except by the carbonate of lime in the oyster-shells, of which .99.2 grams were consumed during the first period and 191.4 during the second. The difference is so great that no other conclusion seems possible than that the egg-shells were constructed from material supplied in large part by the oyster-shells. The hens lost in weight a total of 5 ounces during the first period and a total of 2 ounces during the second, and a change of weight of little consequence, and one that might have occurred at any time within a few hours.

The lot receiving pounded glass did not lay as well as the other lot, and two of the hens became sick, but recovered after a few days. The sickness is believed to be due to excessive amount of glass swallowed, which amounted to 31.3 per cent of the total water-free food when given ad libitum, and to 26.1 per cent when the consumption was limited.

These hens gained in weight during the first period 11 ounces and lost during the second period 9 ounces. Although fewer eggs were laid by this lot, the shells were lighter, being in the first period 8.12 per cent of the total weight of eggs and in the second period 6.18 per cent; while the shells of eggs laid by the lot having oyster-shells formed 9.67 per cent and 9.5 per cent of the total weight of the eggs. The egg-shells contained 92.42 per cent of carbonate of lime, and the ash of the eggs, exclusive of shells, 4.96 per cent of calcium, equal to 12.4 per cent of carbonate. The eggs for the first period contained 1.01 per cent and those of the second 0.98 per cent of ash.

The amount of lime calculated as carbonate found in the eggs exceeded that in the food and drinking water by 3.9 grams for one period and nearly 3 grams for the other. While the glass taken during one period contained lime, the equivalent of 116.63 grams of carbonate, and during the other of 38.56 grams, it does not appear probable that any of this was available as egg-shell material, for it existed in combination with various insoluble silicates. Treatment of the finely powdered glass with the ordinary acids failed to dissolve a trace of lime, and fusion with alkaline carbonates was necessary to its estimation. Upon examination of the excrement, of which during the first period over 72 per cent of the air-dried substance consisted of fragments of glass large enough to be easily removed by washing, a very few small rounded fragments of limestone were found which must have been swallowed by the hens previous to their close confinement and retained for from ten to twenty days. These small pebbles of limestone had been subjected to conditions which are seen to have made oyster-shells available material, and it is probable that enough lime was dissolved from them or from smaller fragments, no appreciable portions of which were left in the excrement, to have supplied the 3 or 4 grams of lime.

In conclusion, the feeding of oyster-shells during the laying season, where they can be cheaply obtained, is highly recommended. One pound will contain lime enough for the shells of seven dozen eggs. Fine gravel containing limestone will probably as well supply the deficiency of lime existing in most foods, but the use of some sharper grit with it may be of advantage.

Long, sharp splinters of glass or dry bone should be avoided. For hens, the size of particles of grit had better



### Get More Eggs

Your hens will lay all winter and keep in health and vigor if you feed

#### Standard Poultry Food

It makes poultry pay. The best tonic food for poultry. Brings eggs when all else fails. Largest package for price, 50c & 50c. If your dealer hasn't it, send for special trial offer.

**STANDARD STOCK FOOD CO.**  
1517 Howard St., Omaha, Neb.

### \$12.80 For 200 Eggs INCUBATOR

Perfect in construction and action. Hatches every fertile egg. Write for catalog to-day.

**GEO. H. STAHL, Quincy, Ill.**



### CYPHERS INCUBATORS

are guaranteed to hatch more and healthier chicks than any other of your money back. Used and endorsed by 48 Government Experiment Stations. Complete catalog and poultry Guide, 218 pages (8x11) free if you send the address of two neighbors who keep good poultry and name this paper. Address nearest office.

**CYPHERS INCUBATOR CO., Buffalo, N. Y.**  
Boston, Chicago, New York, Kansas City or San Francisco.

### A Free Book About Incubators

We issue the best book ever written on incubators—written by a man who has spent 28 years in perfecting them—by the man who made the Racine. It tells facts that you must know to get the right incubator. Don't buy without reading it, for the book is free. We Pay the Freight.

**Racine Hatcher Co., Box 88, Racine, Wis.**  
Warehouses: Buffalo, Kansas City, St. Paul.



### DUFF'S POULTRY

All our Fine Breeders of this season, also Spring Chicks for sale after the first of June. Barred Rocks, White Rocks, Buff Cochins, Partridge Cochins, Light Brahmas, Black Langshans, Silver Wyandottes, White Wyandottes, Silver Spangled Hamburgs, Black Minorcas, S. C. Brown Leghorns, and Belgian Hares. Buy the best now at the lowest prices. Write your wants. Circulars free. Choice Breeders and Show Birds.

**A. H. DUFF, Larned, Kan.**

be larger than that of a kernel of wheat and should be smaller than that of a kernel of corn. An unlimited supply of pounded glass has been attended with no bad result when the food and other grit available to the fowls contained an abundance of lime, but when the food was deficient in lime and no other grit was attainable, hens ate an injuriously large amount of glass.

**Thoroughbred Buff Plymouth Rocks.**  
EDITOR KANSAS FARMER:—I have a thoroughbred Buff Plymouth Rock cockerel that has a few black feathers in his tail. Is that a blemish? He is a fine bird in every other respect.  
Nemaha County. F. SCHAFF.

Answer.—Buff Plymouth Rocks are comparatively a new breed and the solid buff color has not yet been permanently established; therefore a few black feathers in tail or wings is not a disqualification. It is a blemish, and in scoring the bird the judge will cut the score so many points for black feathers, but will not throw the bird out as disqualified, as he would a White Plymouth Rock if he found black feathers thereon.

**Poultry Notes.**  
Col. J. W. F. Hughes is busy, getting the premium list for the great State Poultry Show, ready for the printer. If you will send him your name and address, he will send you a premium list as soon as they are printed.

Speaking about the State show, the coming one is going to be the greatest in the history of the State. Last year's show was second largest in the United States, the Madison Square Garden Show, of New York City, alone exceeding it in magnitude. This year, Colonel Hughes expects to make Madison Square take second place.

If you have any notion of sending your birds to any poultry show this season, you had better be attending to them at once. It takes a long time to get them in proper trim for a great exhibition.

## POULTRY BREEDERS' DIRECTORY

ROSE C. W. LEGHORNS—50 cockerels for sale cheap if taken early. Mrs. A. D. Corning, Route 1, Delphos, Kans.

S. C. BROWN LEGHORNS—Only a few choice cockerels left. First come, first served. Prices reasonable. Stock guaranteed to be pure-bred. J. A. Kauffman, Abilene, Kans.

RHODE ISLAND REDS—Rose and Single Comb superb in color, standard bred; also Rose Comb White Leghorns. Prices right. L. F. Clark, Mound City, Kans.

ROSE COMB BROWN LEGHORN COCKERELS, from selected breeding stock; great laying strain, \$1 each; extra fine, \$2. Eggs in season. H. M. Johnson, Formosa, Kans.

S. C. BROWN LEGHORNS "EXCLUSIVELY"—Farm-raised. Write; our wants for something good. Prices reasonable. Frank T. Thomas, Irving, Kans.

TO GIVE AWAY—50 Buff Leghorns and 50 Buff Leghorns to Shawnee county farmers. Will buy the chicks and eggs. Write me. W. H. Maxwell, 921 Topeka Ave., Topeka, Kans.

BARRED PLYMOUTH ROCK EGGS, 50 for \$2.25; 100 for \$4.75. Adam A. Welr, Clay Center, Neb.

SPECIAL SUMMER PRICES on my Superior Strain Barred Plymouth Rocks: 15 eggs, 60c; 30 eggs, \$1; 100 eggs, \$8. E. J. Evans, Box 23, Far Scott, Kans.

WHITE HOLLAND GOBBLES—From first prize stock, \$4 each. E. W. Melville, Eudora, Kans.

SCOTCH COLLIE PUPS—Four more litters of those high-bred Collies, from 1 to 3 weeks old, for sale. Booking orders now. Walnut Grove Farm, H. D. Nutting, Prop., Emporia, Kans.

COLLIE PUPS FOR SALE—Send for circular W. B. Williams, Stella, Neb.

256 TO 278 EGGS A YEAR EACH. Our Barred Rocks bred for business. Profits doubled by new methods in breeding, hatching, and feeding. Instructive catalog free. F. Grundy, Morrisonville, Ill.

### WHITE WYANDOTTES

White ones, pure-bred, and good layers. Eggs in season.

**ALVIN LONG, Lyons, Kans.**

### BEE & POULTRY SUPPLIES

If you are going to use any Bee or Poultry Supplies the coming season, write for our Catalogue NOW. We can save you money. We are also Agents for the Famous Cypheer Incubator, Brooder and Feeder etc. At Factory prices.

**TOPEKA SUPPLY HOUSE, TOPEKA, KANSAS.**

## EGGS! EGGS! A Timely Tip!

Highest known market prices will be paid this season; inevitable, great demands, scarcity, preserve yours for coming high prices with my practical Egg PRESERVER. Infallible, economical, peerless, prevents staleness; keeps eggs fresh indefinitely; long felt want and valuable necessity to every hen owner. Price \$1. Be wise; order it now and reap profitable returns. Address W. L. JOHNSON, Dept. N, Clarksville, Tenn.

## White Plymouth Rocks EXCLUSIVELY.

Three Grand Yards of the Best Strains in the Country.

White Plymouth Rocks hold the record for egg laying over any other variety of fowls; eight pullets averaging 280 eggs each in one year. I have some breeding stock for sale at reasonable figures. Eggs in season, \$2 per 15, express prepaid anywhere in the United States. Yards at residence, adjoining Washburn College. Address

THOMAS OWEN, Topeka, Kansas.

## POULTRY SUPPLIES

Thanolice (lice powder).....	25c
Creo-carbo (lice killer).....	50c
Egg Maker.....	25c
Poultry Cure.....	25c
Roup Pills.....	25c
Medicated Nest Eggs.....	5c
Conkey's Roup Cure.....	50c
Buckeye Cholera Cure.....	35c

## OWEN & COMPANY 520 Kansas Ave., Topeka, Kans.

## JUST ISSUED POULTRY FEEDING and FATTENING

A handbook for poultry-keepers on the standard and improved methods of feeding and marketing all kinds of poultry.

The subject of feeding and fattening poultry is prepared largely from the side of the best practice and experience here and abroad, although the underlying science of feeding is explained as fully as needful. The subject covers all branches, including chickens, broilers, capons, turkeys and water-fowl; how to feed under various conditions and for different purposes. The whole subject of capons and caponizing is treated in detail. A great mass of practical information and experience not readily obtainable elsewhere is given, with full and explicit directions for fattening and preparing for market. The broad scope of the book is shown in the following table of contents:

Thrifty Growth, Expert Chicken-Feeding, Broiler-Raising, Nutrition for Layers, Special Foods, To Finish and Dress Capons, The Art of Poultry-Fattening, Lessons from Foreign Experts, American Fattening Methods, At Killing Time, Preparing for Market, Marketing Turkeys and Waterfowl, Finish and Shaping.

Profusely illustrated, 160 pages, 5 by 7 1/2 inches, cloth. Price, 50 cents postpaid.

**KANSAS FARMER COMPANY, Topeka, Kans.**

**INTERNATIONAL LIVE-STOCK SHOW.**

(Continued from page 1203.)

ing industry has grown fast in the past few years, and many new members have been added to the club's list, including breeders from all sections of the United States.

**Shorthorn Directors Elect.**

Thursday night the board of directors of the American Shorthorn Breeders' Association met at the Grand Pacific Hotel and re-elected the officers and the executive committee for the coming year. The officers are as follows: S. F. Lockridge, Greencastle, Ind., president; J. F. Frather, Williamsville, Ill., vice president; John W. Groves, Chicago, secretary; E. O. Cowart, Chicago, assistant secretary; Roy G. Groves, Chicago, second secretary; D. W. Smith, Springfield, Ill., treasurer. The following is the executive committee for the coming year: S. F. Lockridge (ex-officio), C. E. Leonard, Bell Air, Mo.; H. F. Brown, Minneapolis, Minn.; Abram Renick, Winchester, Ky., and I. M. Forbes, Henry, Ill.

**Duroc-Jersey Association.**

It was decided at the called meeting of the National Duroc-Jersey Record Association, held at the Grand Pacific Hotel Thursday night, to move their headquarters from El Paso, Ill., to Peoria, Ill., occasioned by the removal of the secretary to Peoria. Aside from this decision nothing of importance took place. The annual meeting of the association does not occur until January 19, at Lincoln, Neb., when the election of officers and the vote to increase the stock of the association are among the two important questions that are to be settled by this body.

**American Shropshire Association.**

In the Pedigree Record building, Thursday morning, the meeting of the American Shropshire Breeding Association was largely attended and business was transacted and the election of officers for 1905 was held.

G. Howard Davison, of New York, was made president; Richard Gibson, vice president of Ontario; H. E. Payne, vice president of Wisconsin, and Mr. Quick, vice president of Indiana. Professor W. R. Carlyle of Colorado, John L. Thompson of Indiana, and Robert Miller of Ontario, are the three new directors for the full term, while Henry L. Wardwell, of New York, will fill the unexpired term of G. Howard Davison, made vacant by his election to the presidency.

As to the appropriations for show stock for 1905, that was left to the will of the board of directors.

**Polled-Durham Association.**

At the Saratoga Hotel, Thursday night, the Polled Durham Breeders' Association held their annual meeting. The election of officers resulted in R. F. Kerr, of Cedarville, Ohio, being named as president; F. S. Hines, of Malott Park, Ind., secretary and treasurer, and W. T. Miller, of Elmore, Ohio; Oscar Hadley, of Plainfield, Ill., and R. F. Kerr, of Cedarville, Ohio, directors.

From the addresses made it was gleaned that, considering the depression in the market for cattle, this year has been quite satisfactory for the association, and it was unanimously agreed to continue the usual appropriations for the exhibiting of Polled Durham cattle at the Illinois State Fair and at the International show.

**Belgian Importers and Breeders.**

Members of the American Association of Importers and Breeders of Belgian Draft Horses met Wednesday night at the Grand Pacific Hotel for the purpose of conducting such new business as should come up at their annual meeting and to elect officers for the ensuing year.

President A. B. Holbert, of Greeley, Iowa, made some timely and fitting remarks, and the reports of the secretary and treasurer were received with gratification.

The next annual meeting is to be held here during the first Wednesday of the International show.

Decision was reached that the fees to members be made \$3.00 for American-bred horses, and for imported, \$5.00. For non-members the fees will be \$8 for native-bred horses and \$10 for imported. If the horses are not registered in one year from registration the penalty added will be double the above amounts.

Frank Iams, of St. Paul, Neb., was appointed as a committee of one to go to Washington to investigate the rules in relation to imported horses.

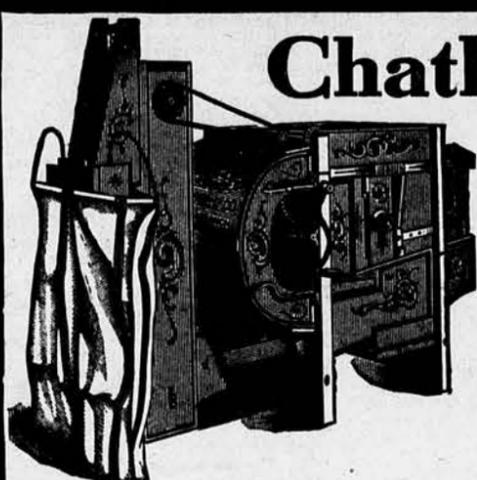
Election of officers for the ensuing year follow: Peter Hoply, Lewis, Iowa, president; J. Crouch, Lafayette, Ind., vice president; J. D. Conner, Jr., Wabash, Ind., succeeded himself as secretary; Henry Lefebure, of Fairfax, Iowa, and Colonel George W. Crawford, of Newark, Ohio, the two new directors; executive committee, Harmon Wolf, of Wabash, Ind., and H. A. Briggs, of Elkhorn, Wis. James M. Fletcher, of Wayne, Ind., John R. McLaughlin, of Columbus, Ohio, and Henry Lefebure, of Fairfax, Iowa, were appointed as a committee to wait upon the officers of the Chicago International show and the Kansas City Royal, in view of securing for the Belgian horse exhibits the same prize money as is given other horses. This committee is given full power to act in relation to any appropriation they wish to accept.

**Yorkshire Club Meeting.**

The twelfth annual meeting of the American Yorkshire Club was held in the parlors of the Transit House, Tuesday evening. A resolution was passed favoring the present arrangement for showing fat hogs rather than breeding grades at the International Live Stock Exposition. However, the Yorkshire Association favors classing exhibits by ages rather than by weights, which plan is now in force, and in the event of a change in the classification of exhibits, the Yorkshire breeders will appropriate special prizes for future International shows. Colonel William M. Liggett, of Minne-

# Chatham Fanning Mill

## REASONS:



**EVERY Farmer, Planter, Seedsman, Stockman and Ranchman—to be successful—must have in his equipment a Chatham Fanning Mill, because:**

1. It is the most perfect cleaner, separator and grader of seed and grain.
2. It is a timothy seed saver.
3. It handles any seed, from tiny tobacco to potatoes.
4. It has a capacity of from 40 to 80 bushels per hour.
5. It works easily by hand, or can be operated by power.
6. It has a patented device to prevent clogging.
7. It has a bagging attachment, saving one man.
8. It will last a life time.
9. It has a large two bushel hopper.
10. The feed is regulated by a screw.
11. With it go 17 screens and riddles for all purposes and combinations.
12. The gearing is all inside.
13. It works easier, quicker and separates cleaner than others.
14. It does a greater variety of work.
15. It is guaranteed for five years, and should last fifty.
16. It is sold on time—enabling every purchaser to use the Chatham Fanning Mill and secure its profits before he is asked to pay for the mill.

**no right to permit himself to do without a Chatham on any pretext. You can afford it, Mr. Farmer, we make the price and terms easy for you on purpose; you cannot afford to do without it.**

**Read the Reasons for Chatham supremacy.** We have sorted out a few of them here for the benefit of the man who won't write for anything. To those who will write we will send our newest book, "How to Make Dollars Out of Wind," that will prove to any man that—whether his farm is 40 acres or 40,000 acres—he is losing money, is not fair to himself, his family, or his neighbors, till he adds to his income the profits a Chatham brings.

This book is free. But it won't do you any good unless you write for it. Sent by return mail, postpaid.

For the free book and our special **On Time** terms write direct to the makers, **The MANSON CAMPBELL CO., Ltd.,** (Mfrs. Chatham Fanning Mills, Incubators and Brooders), 242 Wesson Ave., Detroit, Mich.

Shipments will be made direct from nearest point to you: Harrisburg, Pa., Allegheny, Pa., Elmira, N.Y., Bath, N.Y., St. Louis, Mo., Kansas City, Mo., Dallas, Texas, Charleston, Utah, St. Paul, Minn., Portland, Ore., Sacramento, Cal., Cheboygan, Mich., Portsmouth, Ohio, Dayton, Ohio, Freeport, Ill., Peoria, Ill., Blackwell, Okla., Oklahoma City, Okla., Watertown, S.D., Grand Forks, N. D., Fargo, N. D., Townner, N. D., Des Moines, Iowa, Indianapolis, Ind.

Also Book about our full line of high grade Chatham Incubators and Brooders, sent free on request.

**THE CHATHAM** perfectly cleans and grades everything that can be cleaned and graded by machinery, including wheat, oats, rye, barley, timothy, clover, millet, flax, peas, beans, corn, kafir corn, broom corn, alfalfa, all grass seeds, cranberries and potatoes.

A special screen goes with each mill for taking buckhorn plantain out of clover seed.

There is one of three reasons why you do not own and profit by a Chatham Fanning Mill: (1) Either it is the cost, (2) just neglecting to order, or (3) ignorance as to its financial value to you personally. If we knew which reason was yours, we would write you a personal letter and convince you that a Chatham Fanning Mill (1st) can be bought on time—thus paying for itself; (2d) is not an implement whose buying you can afford to put off and neglect, if you are a progressive, money making farmer; (3d) is acknowledged by the Agricultural press in general and by thousands of users everywhere to be the very foundation of agricultural success, striking at the root, literally, by cleaning all seed grain, enabling you to sow no weeds and only plump seed, and gathering many additional bushels of grain per acre—each acre—each season.

The farmer who reads farm papers has no right to be uninformed on this subject;



Fig. 11.—Arrangement of Defiance wheat with the grain arranged as extracted from one side of the mill. This shows that no matter how good the crop is, the seed requires to be graded every year.

## THE Smith Great Western Endless Apron.



When you load it you know its parts are equal to their duties.

**Every Acre Produces A Third More**

by a proper top dressing of manure. The Great Western does it evenly, thick or thin, thrown in chunks or piles to waste. Handles manure in all conditions, and all kinds of fertilizers. **Endless Apron, Hood and Endgate, Non-Bunchable Rake, Light Draft, Ball and Socket Bearings, Strength and Durability,** are exclusive Great Western features. Sold under strong guarantee. Stocks carried and shipments made from cities in your section. Write for catalogue, showing latest improvements. It tells how to apply manure to secure best results.

**Smith Manure Spreader Co., 13 S. Clinton St., Chicago, Ill.**

meeting with the National Wool Manufacturers' Association, and in every way courting their favor, as a great deal depended upon the marketing of the product. As evidence of this, the secretary was instructed to invite the National Wool Manufacturers' Association to send a committee to the convention at Denver, January 9.

Mr. Burch spoke of the good standing of the association and gave as evidence of this fact that a great many of the sheep record associations were taking out memberships in the W. W. G. A., and seemed enthusiastic and anxious for its success. He seconded Mr. Johnson's remarks and suggested the appointing of a regular field secretary, to devote all his time to the association work. He moved that a committee be appointed to draft resolutions embodying this feature and present the same at the next meeting in Denver, Col., January 9. The motion was seconded and carried.

It was suggested and approved that the next meeting after the one January 9 would be at Chicago during the International week.

**A Condensed Annual Report of the American Aberdeen-Angus Breeders' Association.**

At the annual meeting of the American Aberdeen-Angus Breeders' Association, held Wednesday evening at the Palmer House, the following named officers were chosen:

President, E. T. Davis, of Iowa; vice president, Geo. Stevenson, Jr., of Kansas; secretary-treasurer, Thos. McFarlane, of Illinois; directors for three years, E. T. Davis, of Iowa; Geo. Stevenson, Jr., of Kansas; C. J. Martin, of Iowa.

The treasurer's report shows cash on hand Nov. 1, 1903, \$24,525.56, and receipts of \$23,898.82, with expenditures of \$25,846.35, about \$14,000.00 of which disbursements were for special premiums. There is still some \$11,000.00 to be paid upon awards made in recent shows, leaving after the payment of the same, a good balance in the treasurer's hands, together with a fair sized building fund.

These figures suggest that 1904 has been an exceptional year for the exhibition of pure bred cattle. The Angus breed has been in the front ranks at all the great shows of the year.

**ONE HATCH FREE.**

## ROYAL Incubators.

30 Days Free. Absolutely automatic. Send it back if not perfectly satisfactory. Built to last years. Send for free trial plan. Incubator, poultry and poultry supply catalog FREE. Poultry paper 1 year 10c.

**ROYAL INCUBATOR CO.,**  
Drawer 68 Des Moines, Ia.

**POULTRY TOPICS**

is a handsome 24 to 40 page monthly that tells how to raise chickens. Every farm should get it. 14 years old. Sample free or a trial year for 10 cents.

POULTRY TOPICS, Lincoln, Neb.



**THE CANCER GERM KILLED**

If you will send me your name and address, I will send you ABSOLUTELY FREE my 100 page book, which will convince you that I can cure you WITHOUT PAIN OR SURGERY.

**DR. E. O. SMITH,**  
2810 Cherry St.  
KANSAS CITY, MO.

The association has recorded 9,566 entries and 7,920 transfers for the year ending October 31 last. New members to the number of 125 have been added, making an increase during the last six years of 630 members, as against 127 for the six previous years. There is a total of 931 living members at the present time. These are distributed as follows: Iowa, 234; Illinois, 220; Missouri, 103; Indiana, 64; Ohio, 46; Kansas, 40; Nebraska, 30; Canada, 29; Minnesota, 23; Wisconsin, 20; South Dakota, 14; Kentucky, 13; Texas, 12; Colorado, and North Dakota, 11 each; Michigan, 10; Oregon, and Pennsylvania, 7 each; Montana, 6; New York and West Virginia, 5 each; Virginia, 3; California, Delaware, Idaho; Indian Territory, Mary-

land, New Jersey, New Mexico, Tennessee and Washington.

Volume 13 of the Herd-Book, containing 12,000 entries, has been published this year, and over 10,000 entries are now in hand for Volume 14, which will be issued in the second quarter of 1905.

The record of pure bred Angus animals now reaches to number 74626. Probably there are about 50,000 animals of the Angus breed in this country. During the past two years a number of prominent members have died, of which number Hon. M. H. Cochrane, T. A. Simpson (of Gudgeon & Simpson) and A. B. Matthews, will be remembered as enterprising pioneer importers and breeders of Aberdeen-Angus cattle.

The association is now in its twenty-second year. Its comparatively short career has been remarkable for prosperity, harmony of action, for great enterprise, and for the rapid rise of the Aberdeen-Angus cattle into the front ranks as a beef breed.

THOS. McFARLANE, Secretary.

American Southdown Breeders.

An adjourned meeting of the American Southdown Breeders' Association was held in the Live Stock Record building, Union Stock Yards, Chicago, Ill., at which the following officers were elected:

President, John Jackson, Abingdon, Ont., Canada; secretary, Frank S. Springer, Springfield, Ill.; treasurer, J. A. Lealand, Springfield, Ill.; directors, W. H. Compton, Monroe, Ohio; W. V. Hamilton, Caledonia, N. Y.; C. S. Lyons, Harrodsburg, Ky.

The reports of the officers showed the association to be in a flourishing condition. An appropriation of \$150.00 was made for special premiums at the Chicago International and the Geluph Fat Stock Show.

American Berkshire Association.

The twenty-ninth annual meeting of the American Berkshire Association was held in the rooms of the National Wool Growers' Association, Live Stock Record building, Chicago, Ill., November 29, with a large attendance of members present.

The constitution of the association was so changed that the executive committee will have power to select the time and place for holding the annual meetings.

The report of the secretary, which is as follows, showed the association to be in good financial condition:

Report for ten months ended October 30, 1904.

RECEIPTS.

Table with 2 columns: Description and Amount. Includes 'To cash in hand January 1, 1904', 'Entry fees received for first ten months, 1904', etc.

DISBURSEMENTS.

Table with 2 columns: Description and Amount. Includes 'By purchase of United States Government bonds', 'Salary of secretary', 'Office rent', etc.

The following amendments to the rules of entry were adopted, to take effect January 1, 1905:

- 1. The entry fee to members of the association was reduced to 75 cents for the pedigrees of animals under two years old.
2. Well established family names shall not be infringed upon.
3. Pedigrees already recorded cannot be re-recorded, except to correct a material error, when the fee shall be \$1.00, without regard to age.

The sum of \$750.00 was appropriated for special premiums for Berkshires at the Portland, Oregon, Western World's Fair, Kansas City Royal and Chicago International.

A resolution was adopted authorizing the secretary to accept for record the pedigrees that are now recorded in the National Berkshire Association for the next twelve months at the following rates, viz.:

All dead ancestors free; others at \$1.00 each, providing the entry and transfer blanks of the American Berkshire Association are supplied for each animal.

The following new members have joined the association: I. N. Johnson, Obion, Tenn.; J. L. Henderson, Washington, Pa.; Charles L. Barker, Thornton, Ind.; C. H. C. Anderson & Co., Carlville, Ill.; Gedney Farms, White Plains, N. Y.; Frank Coleman, Terrell, Texas; James Riley & Son, Thornton, Ind.; J. H. Riley, Thornton, Ind.; Roy L. Fry, Wills Point, Texas; G. W. Scott, Kinta, Ind. Ter.; G. G. Council, Vandalla, Ill.; Lee M. Gentry, Sedalia, Mo.; E. D. King, Burlington, Kans.; Etzler & Moses, Decatur, Ind.; A. P. Shropshire, Centerville, Ky.; G. E. Kelly, Mineral Point, Wis.; J. M. Hodson, Montpelier, Ohio; J. S. Henderson, Kenton, Tenn.; Frost & Richardson, Moberly, Mo.; C. A. McCue, Auxvase, Mo.; J. D. B. DeBow, Nashville, Tenn.; Charles L. Busch, Washington, Mo.; E. G. Vaughan, New Bloomfield, Mo.; W. A. Ponder, Denton, Texas; Springside Jersey Farm, Denton, Texas. The name of W. H. Pierce, Denton, Texas, has been taken from our list, he having transferred his stock to Mr. Denton and Springside Jersey Farm. Officers were elected as follows: President, A. J. Lovejoy, Roscos, Ill.;

vice president, T. A. Harris, Lamine, Mo.; secretary, Frank S. Springer, Springfield, Ill.; treasurer, D. W. Smith, Springfield, Ill.; auditor, Thomas Rees, Springfield, Ill.; directors, George W. Jessup, Rockville, Ind.; June K. King, Marshall, Mo.; J. W. Martin, Gotham, Wis.

Galloway Annual Meeting.

Enthusiasm, harmony and prosperity were in evidence at the annual meeting of the Galloway Association Friday night. The Western breeding contingent was well represented, indicating that Galloways are rapidly acquiring a foothold on the range.

O. H. Swigart presided and these officers were elected unanimously: President, G. W. Lindsey, Red Cloud, Neb.; vice president, Judge J. Calvin Ewing, of Youngstown, Ohio; second vice president, Geo. Bernard, of Colorado Springs, Colo.; third vice president, E. L. Davis, Davisburg, Mich.; fourth vice president, W. M. Brown, Carrollton, Mo.; directors, Marion Parr, Illinois; Dr. G. M. Leslie, Indiana, re-elected; T. E. Bales, Iowa, to succeed N. P. Clark; secretary-treasurer, Chas. Gray.

The association is very prosperous. At the end of the last fiscal year it had a balance of \$1,288.93. Since then earnings have been sufficient to pay all international premiums and leave \$1,800 balance.

INTERNATIONAL SALES OF PURE-BRED CATTLE.

SHORTHORNS.

The International sale of Shorthorn cattle, held under the auspices of the American Shorthorn Breeders' Association, was a successful one in every respect. The sale was conducted by Col. F. M. Woods, assisted by Geo. P. Bellows and Ralph W. Barclay. Dexter Park Pavilion was crowded to the limit with admirers and breeders of the red, white and roans. There were no sensational sales, but the very satisfactory average of \$246 was made on sixty-one head sold. The spirited bidding of those present showed conclusively that in the judgment of the buyers present at least, Shorthorn values were still strong and the tendency upward. The top of the bull sale was Gwendoline Victor, consigned by Joseph Duncan, Osborne, Mo., and sold to A. M. James, Lafayette, Ill., for \$600. The top of the cow sale was brought by Princess Missie 2d, consigned by H. A. Lathrop, Marshfield, Wis., and sold to J. A. Kilgore, Sterlings, Ill., for \$510. The sale in detail is as follows:

FEMALES.

Table listing female cattle sales with columns for description and price. Includes 'Golden Lass 2d, consigned by J. F. & J. W. Prather, Williamsville, Ill.', 'Sweet Beauty, consigned by C. Hintz & Sons, Fremont, Ohio', etc.

Table listing various cattle sales with columns for description and price. Includes 'Red Lady of Clover Leaf, consigned by David Albion', 'Wild Duchess Mary 4th, consigned by C. Hintz & Sons', etc.

BULLS.

Table listing bull sales with columns for description and price. Includes 'Imp. Broadhook's Marengo, consigned by C. L. Gariagh, Osborn, Ohio', 'Royal Gloster, consigned by Carpenter & Ross', etc.

ABERDEEN-ANGUS.

With nearly one hundred head of pure-bred registered cattle, in the sale, the average of \$189 is excellent evidence that business is good with the black doddies. This sale was under the management of W. C. McGavock and Co. F. M. Woods, Carey M. Jones, Silas Igo and Sam Kidd officiated as auctioneers. The top of the sale was reached by imported bull Juba of Morlich, consigned by C. J. Martin and purchased by J. R. Campbell, of Clyde, Minn., for \$1,500. The highest priced female was imported Queen Mother 7th of Drumfergue, consigned by O. G. Callahan and sold to Stanley R. Pierce, Creston, Ill., for \$500. The sale in detail is as follows:

FEMALES.

Table listing Aberdeen-Angus female sales with columns for description and price. Includes 'Homedale Blackbird 3d, consigned by W. J. Miller', 'Blackbird of the Alps, consigned by C. J. Off', etc.

Advertisement for H&R Revolvers. Features an illustration of a revolver and text: 'H&R Revolvers are noted for their absolute safety, accuracy, and durability. Sold direct where dealers will not supply. Harrington & Richardson Arms Company, Dept. 48, Worcester, Mass. Makers of H. & R. Single Guns. Catalog for postal.'

Advertisement for 10 Holstein Heifers. Features an illustration of a cow and text: 'FOR SALE 10 Holstein Heifers With First Calves. Also one young bull, not related. Go d breeding and low prices. FRANK WIGGINS, Route 1, Lawrence, Kans.'

Advertisement for MEXICAN PRODUCT CO. Text: 'FOR MEN ONLY Kola Kure—For Wasting Nervous debility, Vital Weakness, Varicocele, etc. Stimulates Blood supply, feeds and quickly builds up new tissue, rejuvenates and permanently sustains. KOLA is the real ELIXIR for ENFEEBLED MEN. An outwardly applied salve, one application positively proves its value. Send 2 cent postage for sealed sample and literature, or 50 cents for \$1 box. MEXICAN PRODUCT CO., Dept B., 1214-1220 Filbert St., Philadelphia, Pa.' Followed by a long list of cattle sales with columns for description and price.

Maple Leaf Gay Lass, consigned by Berry Lucas. Sold to Wm. Davidson. 205
Homedale Princess, consigned by Silas Igo. Sold to A. C. Binnie. 115
Valerie 4th, consigned by Collins Dysart. Sold to J. P. Hine. 300
Lazy 3d of Silver Poplar, consigned by G. G. Mullet. Sold to J. R. Campbell. 100
Cedar Lake Cora, consigned by M. M. Sterns. Sold to G. C. Kenyon & Son, Mount Carroll, Ill. 100
Disc Walnut, consigned by M. H. Broadus. Sold to J. R. Campbell. 100
Elevation, consigned by James H. Hall. Sold to Alex Spears, Tipton, Iowa. 100
Shawnee Belle, consigned by Wilmer N. Foster. Sold to J. R. Campbell. 165
Una D., consigned by David Hadley & Son. Sold to Alex Spears. 180
Mina Bell C., consigned by C. G. Ditto. Sold to Thos. E. Stubblefield. 110
Viviana, consigned by C. I. Ditto. Sold to Thos. E. Stubblefield. 105

BULLS
Imp. Juba of Morlich, consigned by C. J. Martin. Sold to J. R. Campbell. 1,500
Proud Fellowman 3d, consigned by C. J. Off. Sold to George Raynor. 250
Eutruin, consigned by John S. Goodwin. Sold to J. G. Cresswell, Opline, Texas. 255
Mayor of Alta 2d, consigned by A. C. Binnie. Sold to Jesse Cline, Markle, Ind. 310
Imp. Gay Rover, consigned by M. A. Judy. Sold to David Garing, Washington C. H., Ohio. 225
Gay Lad Matilda, consigned by W. J. Miller. Sold to Thos. E. Wells, Chicago. 105
Lord Val 2d, consigned by Stanley R. Pierce. Sold to Joseph Bowman, Guelph, Ontario. 280
Guidi, consigned by F. C. Fleming. Sold to Lew Kerr, Newton, Ind. 150
Ecuador, consigned by J. S. & W. R. Goodwin. Sold to S. Melvin. 300
Lad of Estill, consigned by Peak & Baker. Sold to L. J. Hazen, Galesburg, Ill. 200
Rose Croix Moncreiffe, consigned by W. H. Goodwine. Sold to Walter Pickett, Annapolis, Ind. 200
Earlyhill Judge, consigned by O. G. Callahan. Sold to Thomas E. Wells. 200
Spartan Chieftain, consigned by M. A. Martin. Sold to Thomas E. Wells. 130
Gay Lad M. 3d, consigned by D. Bradford & Son. Sold to E. E. Clark, Garrett, Ind. 120
Crown Me, consigned by W. B. Seeley. Sold to G. O. Cresswell. 145
Maple Leaf Dale, consigned by Berry Lucas. Sold to A. M. Peck, Clayton, Ill. 140
Home Dale Scranton, consigned by Silas Igo. Sold to S. M. Baird, Albion, Ind. 115
Blackcap's Honey, sold to G. Cresswell. 110
Cerdo, consigned by Collins Dysart. Sold to C. B. Amos. 230
Cedar Hurst Lad, consigned by Clifford Haws. Sold to A. McKevitt, Bloomington, Wis. 170
Kellor Victor 2d, consigned by M. H. Broadus. Sold to Clifford Haws, Magnolia, Ill. 110
Sillic, consigned by M. M. Sterns. Sold to J. P. Bowles, Chicago. 110
Don Carlos H., consigned by James H. Hall. Sold to J. P. Bowles. 60
Rubicon Mason, consigned by S. Melvin. Sold to J. P. Bowles. 60
Jimmie Me Boy, consigned by Wilmer N. Foster. Sold to G. Cresswell. 200

SUMMARY
63 females brought.....\$11,915; av. \$189.00
27 bulls brought..... 5,955; av. 220.50
50 animals brought..... 17,870; av. 199.00

GALLOWAYS
The first sale of pure-bred cattle, held at the International this year was the Galloways. This was held under the auspices of the American Galloway Association and proved very satisfactory to all concerned. The general management of the sale was in charge of Secretary Charles Gray, of the association. The sale was conducted by Col. Carey M. Jones, assisted by Geo. P. Bellows and Harro Graham. The top of the sale was \$700 paid by J. C. Ewing, of Youngstown, Ohio, for the bull, McKenzie of Kilquhanity, consigned by C. N. Moody, of Atlanta, Mo. Not only was the sale satisfactory to the consignors and buyers, but it was a noticeable fact that a large number of the animals sold went to the hands of new buyers, showing the widespread development of interest in this breed. From this fact Galloway breeders gain much encouragement. Following is a detailed statement of the sale:

FEMALES
Lady Stanley 12th of Chapelton, consigned by O. H. Swigart, Champaign, Ill. Sold to J. C. Ewing, Youngstown, Ohio. 195
Norma 3d of Avondale, consigned by O. H. Swigart. Sold to C. F. Hechtner, Princeton, Ill. 170
Gladys M., consigned by C. N. Moody, sold to B. B. Richmond, Marshall, Wis. 125
Violet 2d of Brookside, consigned by Brookside Farm Company. Sold to C. D. McPherson, Fairfield, Iowa. 75
Paragon, consigned by C. N. Moody. Sold to J. C. Ewing. 305
Lady Curzon, consigned by J. E. Bales & Son. Sold to A. F. Craymer, Morris, Ill. 90
Lady Stanley of Grange, consigned by O. H. Swigart. Sold to E. S. Hechtner. 160
Evaline 2d of Avondale, consigned by C. N. Moody. Sold to B. B. Richmond. 350
Wanda 3d of Avondale, consigned by O. H. Swigart. Sold to J. W. Tinkham, Kirkwood, Ill. 75
Wanda of Avondale, consigned by O. H. Swigart. Sold to E. H. White, Estherville, Iowa. 100
Minnie Beatty 2d, consigned by Brookside Farm Company. Sold to A. F. Craymer, Morris, Ill. 75
Ruth of Maples 1st, consigned by Brookside Farm Company. Sold to Joseph Varty, Apple River, Ill. 70
Wild Thyme of Maples, consigned by Brookside Farm Company. Sold to D. E. Wolf. 70
Imp. Graceful 3d of Garliestown, consigned to J. E. Bales & Son. Sold to G. W. Lindsay. 460
Queen Prairie, consigned by J. E. Bales & Son. Sold to G. W. Lindsay. 120
Ella 3d of Hensol, consigned by O. H. Swigart. Sold to C. D. McPherson.

Special Want Column

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

CATTLE.

RED POLLED BULLS—One 5-year-old, one 3, and 3 bull calves 6, 7 and 8 months old. All good ones. Address H. L. Pellet, Eudora, Kans.
FOR SALE—Registered Holstein bull, 5 months old, \$40; dam produced over 12,000 pounds milk last year. He is right in size, shape, color, and pedigree. G. G. Burton, Box 106, Topeka, Kans.
FOR SALE—Eight good, registered Shorthorn bulls, four straight Cruickshank, good ones, and prices right. H. W. McAfee, Sta. C, Topeka, Kans.

FOR SALE—4 Scotch-topped Shorthorn bulls at a bargain, serviceable age. Address, Dietrich & Spaulding, Richmond, Kans.
FIVE CHOICE YOUNG REGISTERED GALLOWAY BULLS to close out, at once. Address Wm. M. McDonald, Girard, Kans.
HOLSTEIN-FRIESIAN BULL CALVES FOR SALE—From best registered stock. Address A. J. White, Route 7, Station B, Topeka, Kans.

FOR SALE—2 choice Hereford bulls, 22 months old; something good. Call on or address A. Johnson, Route 2, Clearwater, Sedgewick Co., Kansas.
FOR SALE—Three choice young Galloway bulls, sired by Staley of Nashua (18977) bred by I. B. and A. M. Thompson. Fine individuals, and bred right. Mulberry herd of Galloways; visitors welcome. Robert Dey, Walton, Kans.

FOR SALE—A 3-year-old Shorthorn bull, sired by Royal Bata. Address Dr. N. J. Taylor, Berryton, Kans.
CHOICE young Shorthorn bulls very few prices; also open or bred girls, "Polands or Durocs." M. C. Hemenway, Hope, Kans.
FOR SALE—Guernsey bulls from best registered stock. J. W. Perkins, 423 Altman Building, Kansas City, Mo.

son..... 155
Ella of Hope, consigned by O. H. Swigart. Sold to E. L. Davis, Davidsburg, Mich. 75
Annie 5th of Hensol, consigned by O. H. Swigart. Sold to C. C. Hubecker, Danvers, Ill. 135
Princess Mabel, consigned by O. H. Swigart. Sold to E. F. Craymer. 165
Daisy of Boreland and b. c., consigned by O. H. Swigart. Sold to J. C. Ewing. 185
Hannah 4th of Hope, consigned by O. H. Swigart. Sold to Straub Bros. 100
Magdalene of Maples, consigned by Brookside Farm Company. Sold to C. D. McPherson. 70
Dewdrop of Wavertree, consigned by C. S. Hechtner. Sold to J. C. Ewing. 80
Topsy 6th of Brookside, consigned by Brookside Farm Company. Sold to Straub Bros. 55
Grace 2d of Hope, consigned by O. H. Swigart. Sold to S. E. Speers, Cooksville, Ill. 75
Beauty of Fort Wayne, consigned by Brookside Farm Company. Sold to J. C. Ewing. 180
Hensol's Beauty, consigned by O. H. Swigart. Sold to S. E. Speers. 100
St. Louis to See, consigned by C. N. Moody. Sold to J. E. Bales & Son, Stockport, Iowa. 205
Grace of Wildwood, consigned by C. N. Moody. Sold to J. C. Ewing. 245
Miss Pride, consigned by O. H. Swigart. Sold to J. C. Ewing. 110
Ruth Bryan, consigned by J. E. Bales & Son. Sold to August Priem, Lodi, Wis. 75
Scottish Jennie, consigned by Brookside Farm Company. Sold to John Duffield, Utica, Mont. 80
Ethel of Wavertree, consigned by O. H. Swigart. Sold to John Duffield. 110
Annie of Hope, consigned by O. H. Swigart. Sold to E. L. Davis. 110
Follow Moody, consigned by C. N. Moody. Sold to J. C. Ewing. 200
Princess 3d of Troquaham, consigned by O. H. Swigart. Sold to E. L. Davis. 180
Dinah Peerless, consigned by T. J. Davis & Son, Mendota, Ill. Sold to J. A. Robertson, Lodi, Wis. 50
Triumph's Lass, consigned by T. J. Davis & Son. Sold to John Duffield. 55

BULLS
Macdougall 4th of Tarbreoch, consigned by J. E. Bales & Son. Sold to G. W. Lindsay, Red Cloud, Neb. 550
Two-in-One, consigned by Brookside Farm Company. Sold to D. E. Wolf, Roanoke, Ind. 345
Grandmaster, consigned by O. H. Swigart. Sold to Marion Parr, Harris-town, Ill. 240
Scottish Standard of Durhamhill, consigned by O. H. Swigart. Sold to Straub Bros., Avoca, Neb. 180
Governor's Druid, consigned by O. H. Swigart. Sold to J. W. Tinkham. 55
Mackenzie of Lochenkit, consigned by O. H. Swigart. Sold to Joseph Varty Mackenzie of Kilquhanity, consigned by C. N. Moody. Sold to J. C. Ewing. 700
Tartar, consigned by O. H. Swigart. Sold to J. W. Tinkham. 65
Scottish Chieftain, consigned by O. H. Swigart. Sold to C. C. Habecker. 125
Scottish Samson, consigned by O. H. Swigart. Sold to E. F. Craymer. 300
Norman of Avondale, consigned by C. C. Habecker. Sold to T. Robertson, Lodi, Wis. 65
Sea Lad of Thorniehill, consigned by O. H. Swigart. Sold to Marion Parr. 100
Scott of Maples, consigned by C. S. Hechtner. Sold to John Duffield. 75
Repeater, consigned by Brookside Farm Company. Sold to E. L. Davis. 25
Scottish Champion, consigned by C. E. Clarke. Sold to B. B. Richmond. 200
Victor D., consigned to T. J. Davis & Son. Sold to John Duffield. 50
Sensation K., consigned by T. J. Davis. Sold to John Duffield. 50
Victor W., consigned by T. J. Davis. Sold to G. Hamilton, Climax, Mich. 50
Imp. Starlight of Thorniehill, consigned by C. S. Hechtner. Sold to Marion Parr. 290

FARMS AND RANCHES.

YOU CAN GET RICH RAISING FRUIT, GRAIN and HAY in the Grand Valley. Some good land left at \$30 per acre. Winters are warm and mild. Write for descriptive literature. M. G. Woolverton, Grand Junction, Colo.
MARION COUNTY BARGAINS—Three hundred and twenty acres of fine rich land, splendidly improved, 1 1/2 miles from station, 5 miles from county seat; price, \$13,000. 160 acres fine land and one of the best improved farms in the county, one-half mile from station and 6 miles from county seat, at \$3,500. 80 acres good land, fair improvements, 1 mile from county seat; price, \$2,500. Write for list. A. S. Quisenberry, Marion, Kans.

WANTED TO RENT—A good, well-improved farm, from one quarter to one-half section of good farming land, for cash or grain rent. Address A. O. Bachnick, Route 1, Wailula, Kans.
FARMS AND RANCHES FOR SALE—No. 1, 240 acres, dug well, 135 acres broke, all fenced, 100 acres in wheat, 40 acres good alfalfa ground, mostly good farm land; price, \$10 per acre, \$2,400.
No. 2, 400 acres, includes No. 1, and 35 acres, broke, house, well and windmill, 10 or 12 acres good alfalfa ground. \$4,000.
No. 3, 480 acres, includes Nos. 1 and 2, \$9,50, \$4,560.
No. 4, 840 acres, includes Nos. 1, 2 and 3 with 320 grass land added, 50 acres alfalfa land, a dug well, \$7.50 per acre. \$6,400.
No. 5, 560 acres, all fenced, 70 acres of wheat, balance grass, one-half can be farmed. \$6.75 per acre. \$3,820.
No. 6, 480 acres, house, well, windmill, stables, granaries, living water, all fenced, 150 acres of wheat, 7 acres of alfalfa and about 50 acres of alfalfa land. \$8 per acre. \$3,900.
No. 7, 1040 acres, includes Nos. 5 and 6, \$7,580.
No. 8, 1,880 acres, includes all the above. I will sell in lots as described or all together for \$7 per acre. \$13,160. Call or write L. M. Day, Greensburg, Kans.

160 acres, \$4,100; 40, \$850. Bargains; terms; trades. Buckeye Agency, Route 2, Williamsburg, Kans.

FOR SALE—A registered black Norman stallion, weight 1,800, coming 3 years old; also a three-quarter grade, coming 5 years old, weight 1,500, a good individual and breeder. R. E. Casad, Ocheetree, Kans.
FOR SALE—Percheron stallion, 2 years old past, dark brown, 16 1/2 hands high, weight 1,500. Address J. M. Beach, Route 1, Maple Hill, Kans.

STRAY MARE—A black mare came to Wm. Cook's residence, one-half mile east of the city of Downs, Kans., on or about the 10th day of October, 1904, weight about 900 pounds, age about 3 years, worth, \$40; branded on the left shoulder, owner or owners will please come prove property and pay expenses.

HERD HEADERS AND BROOD SOWS—Hand-somely made, fashionable bred Poland-Chinas, size, quality, vigor; grown for successful breeders strictly. If you want a fancy young boar, open or bred gilt, I will make you a low price for next 30 days. Will have bred sow sale in February. H. M. Kirkpatrick, Wolcott, Kans.

POLAND-CHINA HOGS—Tried brood sows, winter and spring gilts, serviceable boars and fall pigs of choice breeding, healthy and all right. Price, about one-half value. L. D. Arnold, Enterprise, Kans.

FOR QUICK RETURNS—11 of the very choicest breeding of Duroc-Jersey boars from premium stock, April farrow, color right, ears right, head right, and all right or money back; special price for the next 30 days. F. L. McClelland, Route 1, Berryton, Shawnee County, Kans.

BUY AT HOME—I have the best in Poland-Chinas for sale. E. J. Knowlton, Alden, Rice Co., Kans.

POLAND-CHINA PIGS, \$7 EACH. Satisfaction guaranteed by Abe Hertje, Tonkawa, Okla.

TWO RECORDED DUROC HERD BOARS Cheap; 70 spring pigs either sex, no kin; \$10 each; here is a bargain. For particulars write to Chas. Dorr, Osage City, Kans.

FOR SALE—Prize winning blood in Poland-Chinas, handsome serviceable boars that are well built and extra good, sired by U. S. Perfection Jr. first prize boar 1903, and Mischief Maker, out of prize winning dams. A. P. Wright, Valley Center, Kans.

WANTED—Farmers to use the latest patented husking hook. You can husk more corn with it than any other. Sent by mail, price 35 cents. Address A. W. Toole, 809 North Fourth Street, St. Joseph, Mo.

TAMWORTH PIGS FOR SALE. J. H. Glenn, Wallace, Kans.

HANDY HERD REGISTER—The improved Handy Herd Register for swine breeders is a record book that every breeder should have. It is perfect, simple, practical and convenient and contains 101 pages or about one cent a litter for keeping the record. The regular price of this handy herd book is \$1, but we furnish it in connection with the Kansas Farmer one year for only \$1.50.

SEEDS AND PLANTS.

MACARONI WHEAT—Pure seed and clean; Kunka. Raised on new ground. Fine quality. \$2 per bushel, sacked. H. D. Clayton, Edmond, Kans.

WANTED—Cane, Kafir-corn, millet, clover, alfalfa, pumpkin seed, sunflower seed and pop-corn. Send sample and state how much you have. Address A. A. Berry Seed Co., Box 50, Clarinda, Iowa.

HONEY—New crop, water white, 8 cents per pound. Special prices on quantity. A. S. Parson, Rocky Ford, Colo.

WANTED—Cane, kafir-corn, millet, alfalfa, clover, English blue-grass and other seeds. If any to offer send samples and write us. Missouri Seed Co., Kansas City, Mo.

FOR SALE—New crop alfalfa, timothy, clover, English and Kentucky blue-grass, and other grass seeds. If in want, please ask us for prices. Kansas Seed House, F. Barteldes & Co., Lawrence, Kans.

WANTED—New crop alfalfa, red clover, timothy, English blue-grass, and other grass seeds. If any to offer, please correspond with us. Kansas Seed House, F. Barteldes & Co., Lawrence, Kans.

PATENTS.

J. A. ROSEN, PATENT ATTORNEY 418 Kansas Avenue, Topeka, Kans.

FARMS AND RANCHES.

GOOD BOTTOM FARM FOR CASH RENT—147 acres, 7 miles from Emporia. Address J. M. Rhodes, Emporia, Kans.

HEDGEWOOD PLACE FOR SALE—The prettiest 40 acre tract near Topeka. Its on the Pike, the prettiest and best street out from Topeka, West Sixth Street, on the hill just outside city limits and known as Hedgewood Place. Will sell it as a whole, or in lots of five to ten acres, from east or west side. Each 5 acre tract would be a beautiful building site. Come away from city taxes, where we are but 15 minutes from Kansas Avenue. Address H. J. Lane, Topeka, Kans.

SOME CHEAP HOMES—80 acres, 8 acres timber, 30 acres bottom, \$1,500; 80 acres, some improvements, 35 acres cultivated. \$1,250; 160 acres, nice smooth land, one-half cultivated, \$2,000; 160 acres, every foot can be farmed, fair improvements, \$2,800; 160 acres, 55 acres bottom, fair improvements, 10 acres timber, \$3,200, will take part in cattle; 200 acres, \$1,500 insurance on buildings, 2 miles from town, (dairy farm) \$4,000; 320 acres, \$3,000 in improvements including new 12-room house, 50 acres bottom, \$6,500. Fine 1,440 acre ranch, owner will stock and take pay in products, 200 acres alfalfa, \$15,000 in improvements, price, \$25 per acre. All kind and sized farms reasonable. We would like for you to write us what you want. Garrison & Studebaker, Florence, Kans.

STOCK AND DAIRY FARM FOR SALE—A fine stock farm in Saline river valley, four miles north of Russell, Kans. It contains 320 acres, 105 acres bottom land in cultivation, remainder fenced for pasture, three to four hundred fruit trees, excellent water and natural shelter for stock, small house, granary, sheds, etc. Price, \$4,800. If sold before Dec. 1, 1904, \$4,000 will buy it. I also have extensive list of improved farms, and wheat land for sale in Russell, Ellis, Trego, Gove, and adjoining counties. Come and see me. E. W. Voorhis, Russell, Kans.

VIRGINIA FARMS—\$5 per acre and up with improvements. Address Farm Dept., N. & W. Ry., Roanoke, Va.

FARMS For rich gardening and fruit-growing. Write J. D. S. Hanson, Hart, Mich.

LAND FOR SALE. In western part of the great wheat state. H. V. Gilbert, Wallace, Kans.

WHICH ONE SUITS YOU

Central Kansas—Wheat, Corn and Alfalfa. 160 acres, 70 in cultivation, balance pasture and mow land, 25 acres of alfalfa, frame house, 6 rooms, spring, wells and cistern, orchard in bearing, stone barn for six horses, 3 1/2 miles from Marion. Price, \$3,700. 80 acres, 4 miles from Marion on mail route, half mile to school, good frame house of 5 rooms, 20 acres alfalfa, bearing orchard. Price, \$2,500.

W. P. MORRIS, Marion, Kans.

FARM LOANS

Made direct to farmers in Shawnee and adjoining counties at a low rate of interest. Money ready. No delay in closing loan when a good title is furnished and security is satisfactory. Please write or call.

DAVIS, WELCOME & CO., Stormont Bldg., 107 West 6th, Topeka, Ka

I CAN SELL YOUR FARM, RANCH OR BUSINESS, no matter where located.

Properties and business of all kinds sold quickly for cash in all parts of the United States. Don't wait. Write to-day, describing what you have to sell and give cash price on same.

A. P. TONE WILSON, Jr. Real Estate Specialist 413 Kansas Ave. Topeka, Kans.

We Can Sell Your Farm OR OTHER REAL ESTATE.

no matter where it is or what it is worth. Send description, state price and learn our wonderfully successful plan. Address

Southern Minnesota Valley Land Co., MADEIRA, MINN.

CASH For Your Real Estate I Can Sell It; I MEAN IT

Send me Description and LOWEST CASH PRICE today

W. E. MINTON. New England Bldg., Kansas City, Mo.

MISCELLANEOUS.

WANTED—An experienced dairyman, state amount of experience, wages expected. Permanent employment. P. B. Cross, Sapulpa, I. T.

WANTED—Right away; a girl to assist with housework; good home, wages, and school if desired. Address at once Langley Stock Farm, Morland, Kans.

FERRETS—Ready for service, per pair, \$6; single, \$3.50. Address Roy Cope, Topeka, Kans.

WANTED—Good strong country girl for housework, one that can do plain cooking and that is willing to learn; good wages, private family. Address Mrs. A. B. Quinton, 1243 Topeka Ave., Topeka, Kans.

FOUR GREAT MARCHES FOR PIANO OR ORGAN—"Odd Fellows Grand March," "Doxes Twostep March," "California Commandery March" and "St. George's Commandery March," 15 cents each or the four for 50 cents. If you are not pleased I will return stamps on receipt of music. Offer good for sixty days. Mention Kansas Farmer. Address Isaac Doles, Indianapolis, Ind.

WANTED—Young men to learn Telegraphy and Railway Business. W. J. Skelton, Salina, Kans.

WANTED—Man with rig, in each county; salary, \$85 per month. Write to-day. Continental Stock Food Co., Kansas City, Mo.

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

PALATKA—For reliable information, booklets and other literature, address Board of Trade, Palatka, Florida.

**Horticulture**

**What Kansas Has Spent for Forestry.**

EDITOR KANSAS FARMER:—Probably few people are aware that during the past eighteen years the State of Kansas has spent over \$80,000 for forestry purposes, yet such is the case. The law creating the office of Forestry Commissioner and establishing the State Forestry Stations at Dodge and Ogallah was passed during the legislative session of 1887. For the remainder of that fiscal year the appropriations were: Salary of commissioner, \$100 a month; for the purchase of trees, plants, seeds, etc., \$350; for labor, help, freight and incidental expenses, \$1,500. It is not stated at what date the commissioner was appointed, but it may be assumed that he served at least three months before June 30. This makes the total expense up to June 30, 1887, amount to \$2,150. Since that date, the annual appropriations for the fiscal years ending June 30 of the dates given have been as follows:

Salary of commissioner.....	1888. \$1,200	1889. \$1,200
Purchase of trees, seeds, etc..	1,000	1,000
Labor, incidentals, etc.....	5,000	5,000
Traveling expenses of commissioner.....	300	300
<b>Total.....</b>	<b>\$7,500</b>	<b>\$7,500</b>
Salary of commissioner.....	1890. \$1,200	1891. \$1,200
Purchase of trees, seeds, etc..	800	800
Labor, printing, incidentals, etc.....	4,000	4,000
Erection of house at Dodge..	800	
Traveling expenses of commissioner.....	200	300
<b>Total.....</b>	<b>\$7,000</b>	<b>\$6,300</b>
Salary of commissioner.....	1892. \$ 600	1893. \$ 600
Salary of foreman.....	600	600
Purchase of trees, seeds, etc..	500	500
Labor, printing, incidentals, etc.....	3,000	3,000
Traveling expenses of commissioner.....	300	300
<b>Total.....</b>	<b>\$5,000</b>	<b>\$5,000</b>
Salary of commissioner.....	1894. \$ 600	1895. \$ 600
Salary of foreman.....	600	600
Purchase of trees, seeds, etc..	500	500
Labor, printing, incidentals, etc.....	2,000	2,000
Traveling expenses of commissioner.....	200	200
<b>Total.....</b>	<b>\$3,900</b>	<b>\$3,900</b>
Additional for labor, etc., in 1895 session.....		300
Salary of commissioner.....	1896. \$ 800	1897. \$ 800
Salary of foreman.....	900	900
Purchase of trees, seeds, etc..	600	600
Labor, printing, incidentals, etc.....	2,000	2,000
Traveling expenses of commissioner.....	300	300
<b>Total.....</b>	<b>\$4,600</b>	<b>\$4,600</b>
Salary of commissioner.....	1898. \$ 900	1899. \$ 900
Salary of foreman.....	480	480
Purchase of trees, seeds, etc..	400	400
Labor, postage, etc.....	980	780
Traveling expenses of commissioner.....	360	360
<b>Total.....</b>	<b>\$3,120</b>	<b>\$2,920</b>
Salary of commissioner.....	1900. \$1,000	1901. \$1,000
Salary of foreman.....	480	480
Purchase of trees, seeds, etc..	400	400
Labor, postage, etc.....	1,290	1,290
Traveling expenses of commissioner.....	250	250
<b>Total.....</b>	<b>\$3,220</b>	<b>\$3,220</b>
Salary of commissioner.....	1902. \$1,000	1903. \$1,000
Salary of foreman.....	480	480
Purchase of trees, seeds, etc..	400	400
Labor.....	1,200	1,200
Postage, freight and incidentals.....	400	400
Traveling expenses of commissioner.....	360	360
<b>Total.....</b>	<b>\$3,840</b>	<b>\$3,840</b>

The total amount of the forestry appropriations from the passage of the original law up to June 30, 1905, is \$84,350. Omitting the amount for the portion of the fiscal year of 1887, the average annual appropriation has been \$4,566.66.

In 1897 the title of the commissioner was changed to Commissioner of Forestry and Irrigation and for the purpose of "experimenting in agriculture, horticulture, and irrigation" additional appropriations have been made as follows: 1898, \$800; 1899, \$300; 1900, \$600; 1901, \$600; 1902, \$400; 1903, \$400. This total of \$2,600

is not included in the total of forestry appropriations proper given above.

The State has been to no expense for land, as a quarter section was furnished at both Dodge and Ogallah upon the condition that the title was to pass to the State after the stations had been maintained for ten years. At each station, creditable forest plantations were early established and they did nicely for several years. Of late, however, they have been wholly neglected and many of the trees have died. The law provides that the Forestry Commissioner shall address public meetings and publish reports setting forth the results of his work; but it must be confessed that most of the commissioners have been more adept at drawing their salaries than at making experiments and disseminating information of any value to the residents of Western Kansas. Considerable quantities of forest seedlings are annually raised at each station and distributed gratis to applicants without any requirements being made of the recipients in the way of care for their trees or reports upon their success. The State has very little tangible evidence of good results from its expense of over \$80,000 to encourage forestry in the last eighteen years.

The State Horticultural Society held a meeting at Dodge last May and visited the forestry station at that place in a body. The members of the society were so much impressed by the condition of affairs at the station that they appointed a committee of five men from various parts of the State to recommend such changes in the law as will make the forestry work of the State more effective. This committee will report at the annual meeting of the society at Topeka during the last week of December. The committee has no desire to have the State forestry work abolished, but it is strongly of the opinion that it can be greatly improved without additional expense.

R. S. KELLOGG.  
Russell County.

**How an Apple is Made.**

C. S. HARRISON, IN THE TWENTIETH CENTURY FARMER.

Many people take things as they find them, without questioning or investigating. We admire the apple-blossoms in the early spring, but how many of us know and can name the different parts of the flower or explain the transformation going on between the different organisms of the newborn fruit? An exchange gives the story of the birth of an apple in a manner that will interest all:

When the fruit-bud of an apple-tree opens it discloses five or six blossoms. The center one is the strongest and first to open. These blossoms do not all develop fruit, and too often none of them do. Several of them generally make little apples; however, though most of these drop from the tree before attaining any considerable size. This may be caused by a lack of vitality or other cause.

The outer green portion of a blossom-bud is called the calyx. When the blossom opens the calyx turns backward. The leaves of the calyx, called sepals, may be seen at the blossom end of a ripe apple.

The stamens are little, thread-like organs in the center of the flower. Each is tipped with a minute sac containing a small quantity of a very fine yellow powder. This powder is called pollen, and plays a very important part in the birth of the apple, as we shall see later on.

The pistil is located in the very center of the cluster or stamens. It is composed of five green threads, called styles, which united at the base. The enlarged top of the style is called the stigma or stigmatic surface.

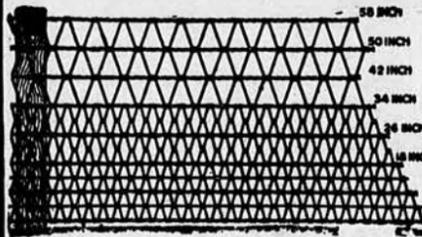
The part which develops into the apple is the small green bulb underneath the flower. It is called the ovary, and contains within it five little cells. These cells are called the ovules, and if properly fertilized develop into seeds.

Having studied the structure of the blossoms, we are ready to observe the birth of an apple. This act is called fertilization. When the proper stage of development is reached the stig-

**"Over the Fence"**

used to be "out" when you and I were boys. The man who buys cheap fence is "out" about all the money he puts into it, nowadays.

**ELLWOOD FENCE**



gives a fellow full value for his money. It is an even exchange when you pay the price and get Ellwood Fence. Nobody is out—not a cent.

**Look at it!**

It looks like a fence. There's some style to it. It is made on purpose to be the strongest, most durable, longest lived, best stock resisting fence. It is the cheapest fence in the end. All best things are cheapest. There's a dealer in your town who sells Ellwood Fence. Look him up and look the fence over. Ask him why Ellwood Fence is best fence. He will tell you.

Our FREE Booklet tells much that you would like to know about fence. It tells you how to order and buy fence wisely for all purposes. Tell us—on a postal—to send you this book. It will start by return mail.

AMERICAN STEEL & WIRE CO., Dept. 125, Chicago, New York, Denver, San Francisco

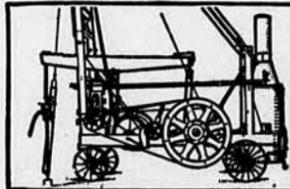
**ALFALFA SEED for FALL SEEDING**

For many years we have made alfalfa seed a specialty, wholesale and retail. Seed is fresh and reliable.

McBETH & KINNISON, Garden City, Kans.

**J. G. PEPPARD ALFALFA MILLET, OATS CLOVER TIMOTHY GRASS SEED SEEDS**

1101-17 W 9th St. KANSAS CITY, MO.



**NOBODY LIKES IMPURE WATER!**

An unfailing supply of Pure Water for farm, stock or garden can be obtained from drilled wells.

**National Well Drilling Machinery**

Is built in all sizes, for all depths, for drilling for Water, Oil, Gas or Minerals. Through any formation.

Ask for Free Catalog No. 7

NATIONAL DRILL & MFG. CO., Chicago.

**HAY PRESSES LEAD LIGHTNING**

OUR CATALOGUE SHOWS WHY SEND FOR ONE NOW SHOWING ALL STYLES KANSAS CITY HAY PRESS CO 129 MILL ST KANSAS CITY MO

matic surface, or the styles, become covered with a sticky substance which the pistil exudes. This is to catch and hold the pollen which is released from the little sacs on the outer ends of the stamens.

The transfer of pollen may be caused by the wind or insects, or it may fall of its own weight when the tree is shaken. When it falls on the same flowers, or the flowers of the same tree, the fruit is said to be self-fertilized. When it helps fertilize the blossoms of another variety, cross-fertilization is said to have taken place. Nature abhors self-fertilization and most varieties do better if they receive the pollen of another variety.

We left the pollen lying on the stigmatic surface of the pistil. In a few hours it sends a minute tube down through each style until it reaches the ovules. Through these tubes there passes a substance which causes the ovules to grow into seeds and the surrounding ovary to develop into an apple. The union of pollen with the ovules is the real act of fertilization and is the time when the apple is born.

Each of the five cells in the ovary contain two ovules, but both do not always develop into seeds, owing to imperfect fertilization. Cut an apple open, and if it has been perfectly developed you will find a star-shaped cavity in the center. This is divided into five cavities, each containing two seeds. If the act of fertilization was imperfect, some of the cavities will be closed and without seeds.

If the ovules have been fertilized with pollen from another variety, and the resultant seeds are planted, the fruit which this seedling tree will bear will partake more or less of the characteristics of each variety. This is why one can never tell what kind of

**ALFALFA SEED GEO. H. MACK & CO., Garden City, Kans.**

**STARK FRUIT BOOK**

shows in NATURAL COLORS and accurately describes 216 varieties of fruit. Send for our terms of distribution. We want more salesmen.—Stark Bro's, Louisiana, Mo.

5-TON SCALE \$35.00 ALSO PITLESS AND SHALLOW PIT FREE TRIAL

fruit a seedling will bear. The general tendency seems to be towards deterioration, as seedling fruits are generally inferior to the parents.

**Cancer of the Lip Permanently Cured With Soothing, Balmy Oils.**

Elliston, Mont., March 4, 1904. Dr. D. M. Bye Co., Indianapolis, Ind. Dear Sirs:—I write this to let you know that the cancer is cured and all healed up. I was at two doctors with it before I wrote to you. They tried it all summer and it got worse all the time, and after I started your treatment it was only six weeks until I was cured and well as ever. I am very thankful to you and I will do you all the good I can. I am satisfied it never will break out any more. I remain, Yours respectfully, JAMES SMITH.

There is no need of the knife or burning plaster, no need of pain or disfigurement; the Combination Oil Cure for cancers is soothing and balmy, safe and sure. Write for free book to the Home Office, Dr. D. M. Bye Co., Drawer 505, Indianapolis, Ind.

To California Via Union Pacific. Millions have been spent in the improvement of this line, and all human ingenuity has been adapted to protect its patrons against accident. The line is renowned for its fast trains and the general superiority of its service and equipment. Fastest time, shortest line, smoothest track. Tourist sleepers a specialty. Inquire of J. C. Fulton, Depot Agent; F. A. Lewis, City Ticket Agent, 525 Kansas Avenue, Topeka.

When writing advertisers please mention this paper.

HORSES.

# Percheron Horses

HENRY AVERY & SON, Wakefield, Kans.



## PERCHERON and SHIRE STALLIONS

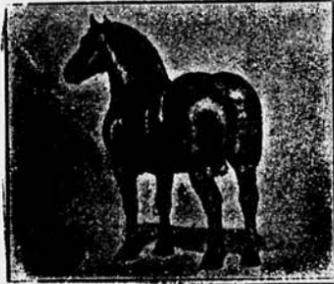
When you go to buy a horse, stop at Lincoln, Nebraska, and see Watson, Woods Bros. & Kelley's Percherons and Shires. Fifty head on hand. Send for beautiful photographs of latest importation and price list. These are free to all who mention Kansas Farmer. Address

WATSON, WOODS BROS. & KELLEY, Lincoln, Neb.

## Draft and Coach Horses

Parties desiring to buy Percheron, Belgium or German Coach Stallions on a self-earning, easy-payment plan, guaranteed to live and be satisfactory breeders, should correspond with

J. W. FERGUSON, Route 1, Topeka, Kans.  
Reference Kansas Farmer.



## ROBISON'S PERCHERONS

Herd Headed by Casino (45462) 27839

Winner of First Prize and Reserve Senior Champion at World's Fair, St. Louis, 1904. Largest Percheron breeding establishment in the West. Won more prizes at World's Fair than any other Percheron breeder. Fourth annual sale at Wichita, Kans., February 1, 1906.

J. W. & J. C. ROBISON,  
Towanda, Kans.

## CHEYENNE VALLEY STOCK FARM



### Percheron Stallions and Bred Mares

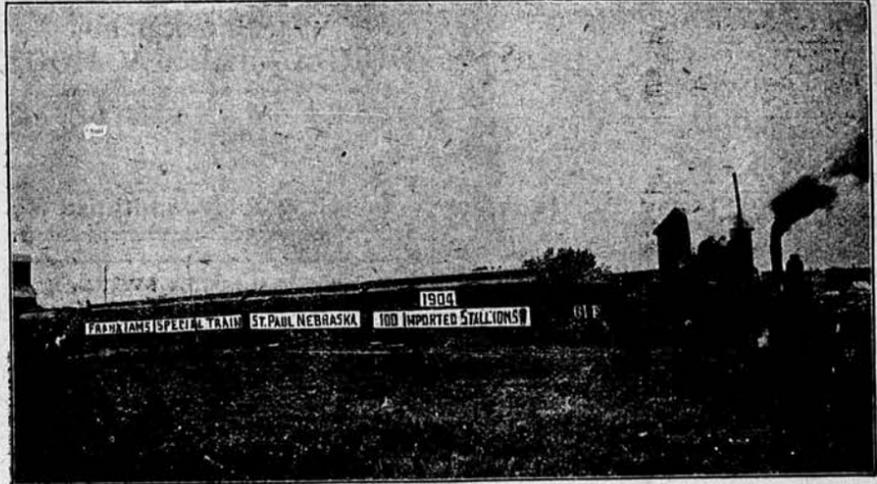
FOR SALE at reduced prices for quick sale. Won 38 prizes out of 39 competed for in 1902-'03, and 28 prizes in leading Kansas and Oklahoma fairs for 1904.

Write me for prices.

F. H. SCHREPEL,  
Ellinwood, Barton Co., Kansas.

HORSES.

# FRANK IAMS'



SPECIAL TRAIN of 100 IMPORTED STALLIONS as it appeared traveling from New York City to St. Paul, Neb., August 18, 1904—STALLIONS DIRECT FROM EUROPE. The only SPECIAL TRAIN and largest importation of stallions by any one man in United States.

Cheer up, Mr. Bright Business Man! Spread the good news: IAMS' PEACHES AND CREAM have arrived—A SPECIAL TRAIN OF 100 SENSATIONAL BLACK BOYS, the cream of France and Belgium. The best money and Iams' superior ability can buy after four months' stay in Europe among the best breeders.

They are sensational stallions of quality, big size, large bone and fashionably bred. In fact, "TOP-NOTCHERS." Positively the best lot IAMS ever owned of draft and coachers.

Owing to IAMS' FACILITIES for BUYING, POOR CROPS AND IAMS' CASH he bought stallions CHEAPER than ever and they are so GOOD and CHEAP you will be his buyer.

He has on hand MORE FULL BLOOD STALLIONS THAN ANY ONE MAN IN UNITED STATES, AND HE MUST SELL THEM.

## 149 BLACK PERCHERONS, BELGIANS AND COACHERS 149

HELLO, CENTRAL! Did you watch IAMS' SMOKE at 1904 Nebraska State Fair? IAMS' HORSE SHOW OF 35 SENSATIONAL PERCHERONS, BELGIANS AND COACHERS was the GREATEST and BEST "HORSE SHOW" ever made by one man in United States. Iams' competitors took to the woods—"went away back and sat down" HARD. Iams' Percherons, Belgians and Coachers won EVERY FIRST, SECOND and SWEEPSTAKES prize in every AGE OR CLASS. A CLEAN SWEEP.

WATCH IAMS' SMOKE. HE SELLS THE STALLIONS. George, dear, go and see IAMS' stallions before you pay those OHIO MEN \$3,600 for that INFERIOR prize-winner.

Say, Ikey, what a rich "GRAFT" those "CON STALLION SALESMEN" are working on the HONEST FARMERS, selling inferior stallions at \$3,000 and \$5,000.

Mr. Business Man, IAMS, the live horseman, is selling first-class stallions at "live and let live" prices. His stallions are 90 PER CENT BLACKS, 50 PER CENT TON HORSES. IAMS speaks the languages, buys direct from breeders, pays no BUYERS, SALESMEN, OR INTERPRETERS. Has no three to ten men as partners to SHARE PROFITS with. His twenty-two years' successful business makes him a safe man to do business with. IAMS guarantees to sell you a better stallion at \$1,000 and \$1,400 than are being sold to stock companies for \$2,500 to \$4,000 by SLICK SALESMEN, or pay your fare and \$25 per day for trouble to see them, you the judge. IAMS pays horses' freight and buyers' fare, gives 60 per cent breeding guarantee. Write for EYE OPENER and finest catalogue on earth.

REFERENCES—St. Paul State Bank, First State Bank, Citizens' National Bank.

## St. Paul, Nebraska.

## 20—REGISTERED STALLIONS AND JACKS—20

They must be sold as I have more than I can winter.

25 Per Cent Discount for cash, on all sales, until surplus is sold. Come and look at the stock if interested. No trades wanted. Also 20 Jennets for sale

S. A. SPRIGGS, Westphalia, Kans.

### Pine Ridge Stock Farm

The Biggest and Best Horse Barn in the United States, and the Biggest and Best



### Percheron and French Draft Horses

SAMSON AT HEAD OF HERD.

(Percheron 27238 and French Draft 6866.)

He weighs 2,464 pounds, with more bone and quality that can be found in any other one horse in the United States. We can show more bone, size and quality than any other one firm in the country. Prices below competition. Call on or address

L. M. HARTLEY, - Salem, Iowa

## Secure a Home in the Great Southwest

The rapid increase in population is pushing land prices upward. The Southwest was never so prosperous as now, and never before has there been such a demand for good farm lands. Through the

M. K. & T. LAND BUREAU

thousands of acres of rich farm lands (improved and unimproved), located along the line of the Missouri, Kansas & Texas Ry., are now offered for sale. The lands are especially adapted to the growth of corn, wheat, oats, fruit and vegetables, rice, cotton, sugar-cane, and for stock farming. The lands are well located as to markets, schools, etc. If you are interested in this new and prosperous country, offering so many opportunities, and rich farming lands which can be secured at low prices, we will gladly furnish you information about lands, business chances, etc. Advise exactly what you want, what State or Territory you prefer, and the amount you have to invest.

The Homeseeker's Excursions on the first and third Tuesday of each month, afforded an opportunity to visit the great Southwest at a small cost. If you are interested write to-day for full information. Address,

GEORGE MORTON, Gen. Pass. Agt., M. K. T. Ry.,

Katy Bldg., ST. LOUIS



# America's Leading Horse Importers



For more than two years we have been saving our best horses on account of the St. Louis World's Fair. Immediately after the International Live Stock Exposition all of these great horses will be offered for sale.

There never was such an opportunity for American breeders to supply themselves with superior Coach and Draft stallions.

## McLAUGHLIN BROS.,

Columbus, O. Kansas City, Mo. St. Paul, Minn.

## R. E. EDMONSON, Live Stock Auctioneer.

Experience, earnestness, and a general, practical knowledge of the business, are my principal reasons for soliciting your patronage. Write before fixing dates. 452 Shiedley Bldg., Kansas City, Mo.

DUROC-JERSEY SWINE.

D. M. TROTT ABILENE, KAS., famous Duroc-Jerseys, Poland-Chinas.

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

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

DUROC-JERSEYS—Large-boned and long-bodied kind. A fine lot of spring pigs (either sex) for sale. Prices reasonable. E. S. COWEE, R. F. D. 2, Scranton, Kans.

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

DUROC-JERSEY SWINE

Also B. F. R. and R. C. B. Leghorn chickens. Stock for sale. Get our prices. MITCHELL BROS., BURTON, WILSON COUNTY, KANS.

FAIRVIEW HERD DUROC-JERSEYS Now numbers 150; all head for our two sales, October 25, 1904, and January 31, 1905. J. B. DAVIS, Fairview, Brown Co., Kans.

PEARL DUROC-JERSEY HERD.

Choice spring pigs, both sexes, and alfalfa feed, ready for service, for sale. 200 head to select from. Can ship on Rock Island, Union Pacific, Santa Fe or Missouri Pacific. C. W. TAYLOR, Pearl, Dickinson Co., Kans.

DUROC-JERSEY HOGS.

All stock registered. Pigs for sale weighing 150 to 200 pounds, both sexes. Will have sows for early farrowing at \$20 each. Spring males and gilts, \$10 to \$15. Address Mr. & Mrs. Henry Shrader, Wauneta, Kans

SUNNY SIDE HERD OF DUROC - JERSEY SWINE

Sires and dams all from prize-winners. Our herd is headed by Russels Hague 21469, Young boars a specialty at present. A few registered Shopshire rams. Satisfaction guaranteed. H. H. Hague & Son, Route 8, Newton, Kans.

PLAINVILLE HERD DUROC-JERSEYS

For sale, an extra fine lot of young boars large enough for service. Bronze turkeys, Barred Plymouth Rocks and Brown Leghorn chickens for sale. J. M. YOUNG, Plainville, Kans.

Rockdale Herd Duroc-Jerseys

March and April males for sale, sired by Chief Perfection, and four other good boars. The pigs have had the run of the pasture and have been closely culled. Prices right. J. F. Chandler, Frankfort, Kansas.

MINNBOLA HERD DUROC-JERSEY SWINE

Prince 17799 and Red Rover 27685 at head of herd. Young boars and bred and open gilts for sale. I. A. KEELER, Route 7, Phone 891 G, Ottawa, Kans.

Rose Lawn Herd Duroc-Jerseys

Size and quality my specialty. Boars ready for service. Gilts bred or open. Spring pigs that are top-notchers. Prices reasonable for quick sales. L. L. Vrooman, Hope, Dickinson Co., Kans.

THE FAMOUS FANCY HERD DUROC-JERSEY SWINE.

Bred from the prize-winners; great individuals; sure to please. Write us for our catalogue. John W. Jones & Co., Route 3, Delphos, Ks

SOLOMON VALLEY HERD DUROC-JERSEY SWINE

No sows nor gilts for sale, males only. Visitors always welcome. Write me. W. F. GARRETT, Box 210, Portis, Kans.

UP-TO-DATE Duroc-Jerseys

Best of breeding and individuality. Pigs of both sexes, not related, for sale. A square deal guaranteed. Write your wants, or call and see hogs. Visitors always welcome. E. L. YOUNG, Bayneville, Kans.

RIVERSIDE HERD DUROCS.

Headed by Dandy Boy 10721 (1100 pounds) three times champion boar at State Fairs. For immediate sale: 15 spring boars and 20 spring gilts. Address Mr. & Mrs. W. R. Crow, Hutchinson, Kans. Telephone 785.

World's Fair Prize Blood in Durocs. Forty Boars for sale, half of them by Kansas Wonder, a 900-pound son of Missouri Wonder, sire of Moss Rose, 2d prize sow at world's fair. Four sows and one boar by Oom Paul II, sire of first prize junior yearling boar. Two head by Tip Top Notcher, grand champion boar and one boar by Ohio Chief, first prize aged boar. Prices reasonable. CHESTER THOMAS, Waterville, Kans

Maple Grove Stock Farm DUROC-JERSEY SWINE

Herd headed by Royal Top Notcher 28075—12329. . . . Three hundred head in herd. Bred sows and sows with pigs at foot for sale. Sixty choice spring gilts, both bred and open for sale. Also twenty April boars by Royal Top Notcher and some choice yearlings. All of the big-boned, growthy kind. Visitors welcome, and prices right.

DULANEY & DE BROT, ROUTE 1, WICHITA, KANSAS. Telephone at Farm.

DUROC-JERSEY SWINE.

DUROC-JERSEYS

A few very superior boars out of Gold Dust 20401, our premier herd boar, now ready for sale. BUCHANAN STOCK FARM, Sedalia, Mo.

WALNUT OAK HERD

DUROC - JERSEY HOGS

Herd headed by Surprise 10817, Champion at American Royal in 1902. Pigs by him out of Mode, the sweepstakes sow at seven State Fairs and out of May F, who never produced a pig that was not a show hog. She is the dam of World's Fair prize winners. We have others as good and no poor ones. Visitors always welcome. On Missouri Pacific Railway.

Powell & Rudy, Smithton, Mo.

POLAND-CHINA SWINE.

FOR SALE Poland-China Hogs, Holstein-Friesian Cattle; either sex. Best strains represented. H. N. HOLDEMANN, Rural Route No. 2, GIRARD, KANSAS.

SHADY NOOK HERD.

Poland-Chinas, Up-to-date breeding. Correspondence solicited, inspection invited. Wm. Plummer, Barclay, Kans.

Pure Bred Poland-Chinas.

of the Chief Tecumseh 2d, Black U. S., Wilkes, Free Trade, Corwin and Short Stop strains. Address E. E. WAIT, Altoona, Wilson County, Kans.

Pecan Herd of Poland-Chinas

Model Tecumseh 64188, American Royal (S) 80783, and Best Perfection 81507 at head of herd. Write us your wants. J. N. Woods & Son, Route 1, Ottawa, Kans.

Kansas Herd of Poland-Chinas.

has some fine spring boars and gilts, and four bred gilts. Sunshine bred; also Rose Comed White Leghorn chicks. F. P. MAQUIRE, Hutchinson, Kansas.

Elm Grove Stock Farm Poland-Chinas.

Woodbury 33888, Highroller 33889 and Perfection's Profit 33223 at head. Sows of the most popular strains. Visitors always welcome. F. A. DAWLEY, Waldo, Kans.

ROME PARK POLAND-CHINAS and BERKSHIRES.

I have about twenty boars ready for use and twenty-five sows bred, and some unbred, and a large number of good pigs, both breeds. T. A. HUBBARD, (County Treasurer Office.) Wellington, Kans.

PLIMPTON HERD OF POLAND-CHINAS

Has for sale Rival Perfection 34377, by Hard To Beat, the American Royal prize-winner, and out of Darkness Best 2d by U. S. Perfect in also a lot of young pigs by Royal Perfection. Herd now headed by Missouri Black Perfection 2d, a prize-winner. Write your wants. Visitors welcome except on Sunday. S. H. LENHART, Hope, Kans.

GOOD HERD FOR SALE

As I expect to move, am making SPECIAL PRICES to sell all of my Kanawha Herd of Poland-Chinas. Two Herd Boars, 3 Fall Boars, 40 Spring Pigs, 70 Fall Pigs, 25 Sows and Fall Gilts. I don't want to publish my prices, but write me and I will surprise you in the breeding and bargains I offer. W. B. VAN HOEN & SONS, Lone Star, Douglas Co., Kans.

HIGHLAND FARM HERD OF PEDIGREED POLAND-CHINAS

Twenty serviceable boars at special prices for next 30 days, sired by Black Perfection 37132, Silk Perfection 32804, Perfection New 32580, and Ideal Perfection. They are lengthy and good-boned pigs, with plenty of finish. Write me description of what you want and I will guarantee satisfaction. JOHN BOLLIN, Route 5, Leavenworth, Kans

Main's Herd of Poland-Chinas

Empire Chief 30379 S, 62445 A, head of first prize herd at Iowa and Nebraska State Fairs. Mammoth bone and size, full brother to the champion Logan Chief. Chief Tecumseh 4th, sired by Chief Tecumseh 3d, whose get have won 110 prizes at State Fairs, heads the herd of JAMES MAINS, Oskaloosa, Jefferson Co., Kan. All ages and sex, out of sows of all the leading strains of the Poland-China breed. Write what you want.

POLAND-CHINAS Wilkes Perfection Herd.

Herd Boar—Kleaver's Perfection' Seven of his get, dams Wilkes bred, won 1 second, 3 firsts in class and 3 sweepstakes over all breeds at Kansas State Fair 1904. 150 head similar breeding for sale. Prices according to quality and in reach of all. Farm 1 mile northeast of town. W. R. PEACOCK, Sedgwick, Kans.

GUS AARON'S POLAND-CHINAS

Choice young boars of April and May farrow sired by Beauty's Extension, for sale. Also bred sows and gilts, all with good colors bone, fancy head and ears. The head boar, Beauty's Extension 27966, for sale. Some snaps here. Visitors welcome. Mention Kansas Farmer and write for prices.

POLAND-CHINA SWINE.

Big-Boned, Lengthy Poland-Chinas

I have for sale two herd boars, one sired by the great Missouri's Black Perfection, the other by Perfection Chief; they are extra good. Also 25 large, big-boned, growthy spring boars and about the same number of gilts. My specialty is to breed the kind that is the most profitable. E. E. WAIT, Altoona, Wilson Co., Kans.

CEDAR KNOLL FARM

Pure-Bred Poland-China Hogs

Five yearling boars, strong-boned, lusty fellows, just fit for hard service; will please anyone or money back. Sired by Correct Perfection 32031, by Corrected; dam by Chief Perfection 2d; very reasonable for quality. Also spring pigs, both sexes by same sire that are all right and guaranteed to please. Write for prices and you will buy. WALTER O WILTBERGER, Winfield, Kans.

CLEAR-CREEK HERD OF POLAND-CHINAS

Notice is hereby given of the withdrawal of the sale announced for December 1, 1904, and the substitution of a Bred Sow Sale for February 1905.

For sale, at reduced prices, for the next thirty days, four fancy yearling boars, and fifteen tops of last spring's farrow.

E. P. SHERMAN, Wilder, - - Kansas.

CHESTER WHITE SWINE.

O. I. C. HOGS

They are bred right and will be sold right. Write me for prices. Satisfaction guaranteed. S. W. ARTZ, Route 1, LARNED, KANSAS.

20 Chester White Sows and Gilts

And 10 October Boars for ready sale. Prices low for quick sales. Order to-day. D. L. BUTTON, Route 9, Elmont, Shawnee Co., Kans.

Wyandotte County Herd O. I. C. SWINE

Breeders of the prize-winners and champions at the American Royal, and of many winners at St. Louis. We now have a number of choice Dec. boars, Jan. and March sow pigs and July pigs of both sexes, all growthy with plenty of bone and weight and in perfect condition. Very attractive prices on these choice animals. ALVEY BROS., Argentine, Kans.

Peach Grove Herd OF PURE-BRED O. I. C. SWINE

Choice stock for sale. Prices reasonable. Come and see them or write to H. T. GARTH, Larned, Ks

Nebraska Herd of Improved Chester White Swine

The largest pure-bred Chester White herd in the West, with the best blood in the Union. Boars ready for business, and young sows to start a herd at prices that are moving them. As I have sold my farm, they must go. Now is your time to get royal blood for a little money. Write or come to-day. E. W. BLOWN, Shelby, Neb.

THE CRESCENT HERD O.I.C. The World's Best Swine.

200 pedigreed hogs, both sexes, all ages. Pairs or trios mated not akin. Bred for size and finish. Nothing but the best offered. We are now booking orders for bred sows. Describe build of hog wanted. Thoroughbred Poultry—W. and E. P. Rocks, W. and G. Wyandottes, and B. Langghans. Stock for sale. Correspondence solicited and satisfaction guaranteed. John W. Roat & Co., Central City, Neb.

TAMWORTH SWINE.

TAMWORTHS

Ready for sale, consisting of 50 fall and spring gilts, that can be bred to any one of the three different herd boars, Mark Hanna, Red Stack Jolly, and a fine herd bred from Illinois. Also 40 young boars for sale for spring farrow. C. W. FREELOVE, Clyde, Kansas.

BERKSHIRE SWINE.

Ridgeview Berkshires

Are all O. K. in breeding and quality. One yearling boar and four boars, April farrow, for sale, besides fall pigs. MANWARING BROS., Route 1, Lawrence, Kans.

SUTTON'S BERKSHIRES Imported Blood

30 extra choice Boars, 100 to 150 pounds. 40 extra choice Gilts, 100 to 150 pounds. Fancy heads, strong bone and all-around good ones. Bargains at \$15 to \$25 to close quick. CHAS. E. SUTTON, Russell, Kans.

BERKSHIRE HOGS

Winners at the big shows. A fine lot of March and April boars and gilts ready to ship. J. H. BLODGETT, Pleasant Hill, Mo.

BERKSHIRES

I have purchased the great S. B. Wright herd, of California—are of the best in America, and the best sows and boars I could find in Canada, and have some fine young boars by several different herd boars. Can furnish fresh blood of high quality. E. D. KING, Burlington, Kans.

East Reno Herd of Berkshires.

Best Blood in the Land. Herd Boars: Black Robin Hood II 73523, Berryton Duke Jr. 77341. Fine young boars and gilts and a few old sows for sale. Also White Plymouth Rock and Rhode Island Red chickens. Farm 2 miles Northeast of Medora. G. D. WILLEMS, Inman, Kansas.

SHORTHORN CATTLE.

Plainville Shorthorn Herd

Headed by Strawberry Baron 149498 and Prince Lucifer 188665, a pure Cruickshank. Young stock for sale at all times. N. F. Shaw, Plainville, Rooks Co., Kans.

PEARL SHORTHORN HERD.

Baron Ury 2d 124970 and Sunflower's boy 127387 head the herd. Can ship via Rock Island, Union Pacific, Santa Fe or Missouri Pacific Railways. For Sale—Young bulls from 8 to 24 months of age. C. W. TAYLOR, Pearl, Dickinson Co., Kans

PLEASANT HILL STOCK FARM

Registered Hereford cattle. Major Beau Real 71621 at head of herd. Choice young bulls, also heifers. Lord Evergreen 95651 in calf to Orto 182856 for sale. Bronze turkey and Barred Plymouth Rock eggs for sale. JOSEPH CONDELL, Eldorado, Kansas.

Valley Grove Shorthorns

Bulls, bred heifers, and cows with calves at foot sired by Lord Mayor 112727, Knight Valentine 157068 and Golden Day for sale. Heifers bred to Golden Day and calves at foot by each herd bull. For ready sale, 25 yearling bulls. T. P. BABST & SONS, Auburn, Kans. Telegraph Station, Valencia, Kans.

Cloverdale Stock Farm

Will sell 40 Shorthorn cows and heifers, car load of young bulls. Duroc-Jersey boars ready for service. Shetland ponies at a bargain. C. H. CLARK, COLONY, - - - KANSAS.

Shorthorn Cattle.

For immediate sale, 12 bulls ready for service and 12 bull calves. Also 20 cows and heifers, 1 to 7 years old. Give me a call, or address H. R. LITTLE, - - HOPE, KANS.

GLENWOOD HERDS Shorthorns and Poland-Chinas

Large, prolific type. Herd headed by Chief Idea 2d 28951, by Chief Ideal 28905. We have the length, size, bone and quality. The kind that pay. Pigs of both sexes, sired by Chief 22618, by Chief Editor, and other good ones for sale. Write for special prices. Telephone on farm. C. S. NEVIUS, Chiles, Miami, Co., Kans.

Silver Creek Shorthorns

The Imported Missile bull, Aylesbury Duke 150768, and the Cruickshank bull, Lord Thistle 129960, in service. A few bred yearling heifers by Imp. Aylesbury Duke are now offered for sale. These heifers are in calf to my Cruickshank bull, Lord Thistle. J. F. STODDER, BURDEN, COWLEY COUNTY, KANS.

**SHORTHORN CATTLE.**  
**ROCKY HILL HERD**  
**SHORTHORN CATTLE.**  
 J. F. True & Son, Perry, Kans.

**Maple Grove Shorthorn Herd**  
 Banker 129324 Cruickshank Herd Bull.  
 Slsy 849 of Vol. 40, Rose of Sharon blood, Norwood  
 Barrington Duchess 654 Vol. 50, Bates blood. Pure  
 bred, unregistered cows and bulls for sale.  
**OSCAR DUEHN, Clements, Kansas.**

**RIVERSIDE SHORTHORNS**  
 and **POLAND-CHINAS**  
 Public Sale November 23, 1904.  
**WM. WALES, Osborne, Kans.**

**D. P. NORTON'S SHORTHORNS.**  
 Dunlap, Morris County, Kansas.  
 Breeder of Pure-bred Shorthorn Cattle.  
 Herd bull, Imported British Lion 133892. Bull and  
 heifer calves at \$50.

**Meadow Brook Shorthorns**  
 Ten fine young bulls for sale—all red. Red Laird, by  
 Laird of Linwood, at head of herd.  
**F. C. KINGSLEY,**  
 Dover, Shawnee County, Kansas.

—THE—  
**N. MANROSE**  
**SHORTHORNS**  
 Rural Route 5, Ottawa, Kans.  
 Giltspur's Knight 171591 at head of herd. Young  
 bulls ready for service for sale.

**ALYSDALE HERD**  
**SHORTHORNS**  
 Headed by the great Cruickshank bull Prince Con-  
 sort 187008, sired by Imported Prince of Perth 153879,  
 and out of own sister of Lavender Viscount 124755.  
 For Sale—Registered young bulls, at very reasonable  
 prices; ready for service; sired by Lord Mayor 112727,  
 and Golden Day 187219, from fine Scotch-topped dams  
**C. W. MERRIAM,**  
 Columbian Bldg., - Topeka, Kans.

**Harmony's Knight 218509**  
 By the \$1,000 Knight's Valentine 157770  
 a pure Scotch bull of the Bloom tribe, now  
 heads my herd. Seven extra good 1 and  
 2-year-old bulls, sired by an American Roy-  
 al winner, for sale; also carload of cows and  
 heifers in good flesh and at reasonable pri-  
 ces. Come and see them.  
**A. M. ASHCRAFT, Atchison, Kan.**

**Elder Lawn Herd**  
**SHORTHORNS**  
 T. K. TOMSON & SONS, Dover, Shawnee Co., Kans.  
 Bulls in service: GALLANT KNIGHT 124468 and  
 DICTATOR 182524.  
 For Sale—Serviceable Bulls and Bred Cows. Prices  
 reasonable and quality good. Come and see us.

**RED POLLED CATTLE.**  
**ENGLISH RED POLLED CATTLE**—Pure-bred  
 Young Stock For Sale. Your orders solicited.  
 Address L. K. HAZELTINE, Route 7, Springfield,  
 Mo. Mention this paper when writing.

**COBURN HERD OF RED POLLED CATTLE.**  
 Herd now numbers 115 head. Young bulls for sale.  
**GEO. GROENMILLER & SON,**  
 Route 1, POMONA, KANSAS

**RED POLLED CATTLE AND**  
**POLAND-CHINA SWINE.**  
 Best of breeding. Write or come and see  
**CHAS. MORRISON, Route 2, Phillipsburg, Kas.**

**RED POLLED CATTLE**  
 Of the Choicest Strains and Good Individuals.  
 Young Animals, either sex, for sale. Also breeders of  
**PERCHERON HORSES AND**  
**PLYMOUTH ROCK CHICKENS.**  
 Address S. C. BARTLETT, Route 5,  
**WELLINGTON, KANS.**

**POLLED DURHAM CATTLE.**  
**RICHLAND, KANSAS,**  
**Standard Polled Durham Herd**  
 Only one bull for sale, calved February 27, 1904.  
 Sired by Kansas Boy 197989 X2585, dam Carmen,  
 Vol. 49X2.

**THE WILLOWDALE BERKSHIRES**  
 Lord Premier 50001, the sire of more show hogs than any boar  
 in the world, at head. Six June boars by Lord Premier and  
 a few sows bred to him for sale. Also three aged herd boars  
 and young stock of both sexes. Write or call.  
**G. G. COUNCIL, - - VANDALIA, ILLINOIS**

**HEREFORD CATTLE.**  
**VERMILION HEREFORD CO.,**  
**VERMILION, KANSAS.**  
 Boatman 58011 and Lord Albert 131557 head of herd  
 Choice young stock of both sexes for sale.  
**E. E. Woodman, Vermillion, Kans.**

**HAZFORD PLACE HEREFORDS**  
 The American Royal prize-winning bulls Protocol  
 24 91715, Dale Duplicate 24 134400, and Monarch  
 142149 at head of herd. A few young bulls and fe-  
 males for sale. Visitors always welcome.  
**ROBERT H. HAZLETT,**  
 Eldorado, Kans.

**SOLDIER CREEK HERDS OF**  
**Herefords, Shorthorns, Polled Shorthorns**  
**Service Bulls**—Herefords: Columbus 17th 91384,  
 Columbus Budybody 141838, Jack Hayes 2d 119761  
 Shorthorns: Orange Dudding 149469. Polled Short  
 horns: Scotch Emperor 138646, Crowder 204815  
 Herds consist of 600 head of the various fashion-  
 able families. Can suit any buyer. Visitors welcome  
 except Sundays. Address  
**Joseph Pelton, Mgr., Belvidere, Kiowa Co., Ks.**

**ABERDEEN-ANGUS CATTLE.**  
**ABERDEEN-ANGUS CATTLE**  
**AND PERCHERON HORSES**  
 FOR SALE—All stock recorded.  
**GARRET HURST, PECK, KANSAS.**

Garden City Herd of  
**Polled Angus**  
 Offers for sale at private treaty its grand 5-year-old  
 herd bull, LILLIANO 37387; one 2-year-old bull  
 weighing 1,900 pounds; four yearling bulls weighing  
 1,200 each; twelve calf bulls weighing 800 to 900 each.  
 Call on or address  
**GEO. H. MACK & CO., Garden City, Kans**

**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, Man-  
 ager, Gas City, Allen Co., Kans., R. R. 1, or—  
 Anderson & Findlay, Prop. Lake Forest, Ill.

**THE SUNFLOWER HERD PURE-BRED**  
**Angus Cattle**  
 Herd headed by HALE LAD  
 30645. Herd numbers 250 head,  
 the largest herd bred by owner  
 in America. Stock for sale  
 Address  
**PARRISH & MILLER,**  
 Hudson, Route 1, Stafford Co., Kas

**GALLOWAY CATTLE.**  
**GALLOWAY BULLS**  
 FOR SALE CHEAP  
 20—2-year-olds,  
 30—yearlings.  
 Females of all ages for  
 sale. Address  
**W. R. PLATT & SON,**  
 1613 GENESEE ST., KANSAS CITY, MO

**C. N. MOODY,**  
 Breeder of.....  
**Galloway Cattle**  
 ATLANTA, MISSOURI.  
 Females of all  
 Ages for Sale  
 Will make specia  
 prices on car-load of  
 yearlings and car-load  
 of 2-year-old bulls.  
 WRITE YOUR WANTS

**VARICOCELE**  
 SAFE, PAINLESS, PERMANENT CURE GUARANTEED  
 25 years' experience. No money accepted until pa-  
 tient is well. CONSULTATION AND VALUABLE  
 BOOK FREE, by mail or at office. Write to  
**DR. C. M. COE, 915-B Walnut St., Kansas City, Mo.**

**Largest Optical Mail Order**  
**House in the West.**  
 Eyes examined free accurately by mail.  
 Any style glasses for \$1. Write for free examination  
 sheet and illustrated catalogue. Satisfaction guar-  
 anteed. **R. H. Baker Optical Co., 824 Kansas Ave., Topeka**

When writing advertisers please men-  
 tion this paper.

**SHEEP.**  
**ELMONT HERD**  
**SHROPSHIRE SHEEP.**  
 Herd headed by Huntsman 155655 and Marsha,  
 176211. Choice young bucks ready for service, for  
 sale, also extra good spring ram lambs. All registered  
**JOHN D. MARSHALL,**  
 Walton, - - Kansas.

**LIVE STOCK AUCTIONEERS.**  
**JONES' National School of Auc-**  
**tioning and Oratory**  
 Teaches all branches of auctioneering. Special at-  
 tention to fine stock auctioneering. Term opens  
 December 14. **CAREY M. JONES, Pres., 242**  
**Bridge Ave., Davenport, Iowa.**

**R. L. HARRIMAN**  
 Live Stock Auctioneer,  
 Bunceton, Mo.  
 Twenty years a success-  
 ful breeder, exhibitor and  
 judge of live-stock, togeth-  
 er with eight years' experi-  
 ence on the auction  
 block, selling for the best  
 breeders in the United States enables me to  
 give best service and secure best results for  
 my patrons. Terms reasonable. Write  
 early for dates.

**JAS. W. SPARKS**  
 Live Stock Auctioneer  
 Marshall, Mo.  
 Twelve Years Successfully  
 Selling all breeds of pure-  
 bred live-stock at auction  
 for the best breeders in  
 America.  
 Posted on pedigrees and values. Reasonable terms  
 for the best and most experienced service. Write  
 me before fixing date.

**LIVE STOCK AUCTIONEERS.**  
**LAFE BURGER,**  
**LIVE STOCK AUCTIONEER**  
 Wellington, Kans.  
 Five years of successful selling  
 for some of the best breeders in  
 the United States. Posted on pedi-  
 grees and values. Entire time  
 given to the business. Write or  
 wire for dates.

**J. W. SHEETS,**  
**Live Stock Auctioneer**  
 Fredonia, Kansas.  
 Twenty-five years' experience. Sales made  
 anywhere on earth, and satisfaction guaran-  
 teed. Work begins when dates are booked.  
 A Kansas man for Kansas sales. Write for  
 dates and terms.

**BERT FISHER,**  
**Live Stock Auctioneer**  
 119 W. Norris St., North Topeka, Kans.  
 Thoroughly posted on pedigrees. Ten years' ex-  
 perience. Satisfaction guaranteed. Write or wire  
 for prices and dates.  
 Free sale tent at cost of handling only when I am  
 employed. Ind. Phone 25. Bell Phone 22.

**JOHN DAUM,**  
**Live Stock Auctioneer**  
 NORTONVILLE, KANS.  
 Fine stock a specialty. Large acquaintance among  
 stock-breeders. Sales made anywhere. Working  
 and booked for best breeders in the State. Write or  
 wire for dates.

**CAREY M. JONES,**  
**Live Stock Auctioneer**  
 DAVENPORT, IOWA. Have an extended acquaint-  
 ance among stock-breeders. Terms reasonable.  
 Write before claiming date. Office, Hotel Downs.

**GEO. P. BELLOWES,**  
**LIVE STOCK AUCTIONEER,**  
**MARYVILLE, MO.**  
 Satisfaction guaranteed—Terms reasonable.  
 When writing advertisers please men-  
 tion this paper.



## Railroad and Steamship Tickets

To and from all points.

For further information, sleeping-car reser-  
vations, steamship rates, and railway con-  
nections and folders, address

**T. L. KING, C. P. & T. A., Topeka, Kansas.**



## The Missouri Pacific Railway

---

### 7 DAILY TRAINS BETWEEN KANSAS CITY & ST. LOUIS 7

Leave Kansas City 6:55, 8:00, 10:10 a. m., 11:10, 9:15, 11:00 p. m., and 12:05  
midnight. Ask for your tickets via this line from Kansas City; if you miss one train  
you will not have long to wait for another.

**C. E. STYLES, A. G. P. A., Kansas City, Mo.**

**F. E. NIPPS, Ticket Agent, Topeka, Kans.**

# 50 Head 50



## Percheron Stallions and Mares

(Registered)

## Coach Stallions, Big Black Mammoth Jacks and Jennets

At Sale Pavilion,

Ottawa, Kans., Thursday, December 15, 1904

1 O'clock p. m.

S. A. SPRIGGS, Westphalia, Kans.

JOE FOX, Greeley, Kans.

D. A. ZOOK, Eight Mile, Mo.

For Catalogue write S. A. Spriggs, Westphalia, Kans.

Col. R. L. Harriman, Bunceton, Mo., Col J. W. Sparks, Marshall, Mo., Auctioneers.

## PUBLIC SALE OF REGISTERED HEREFORD CATTLE

CARBONDALE, KANSAS, THURSDAY, DEC. 15, 1904

### 40 HEAD 40

This will be a closing out sale and will consist of cows, calves, and herd bull. Beau Gondolus 133277, a son of Beau Brummel 51817 at head of herd. Cows trace to Lord Wilton, Grove 3d, Anxiety 4th, and Boatman.

In connection with the above sale G. B. Scott will sell

### 45 HEAD OF POLAND-CHINA HOGS 45

These hogs are thoroughbred and registered.

Sale will begin promptly at 10 o'clock a. m. Free lunch at noon. Sale under cover. Come rain or shine. For catalogues address

J. A. CARPENTER or G. B. SCOTT, Carbondale, Kans.

COL. W. Q. HYATT, Auctioneers.

## PERCHERON BROOD MARES AT AUCTION

AT M. L. AYRES' IMPORTING AND BREEDING ESTABLISHMENT

Shenandoah, Iowa., Wednesday, Dec. 21, 1904

### 30 Head of Distinctly High-Class Brood Mares in this Sale Ring—the flower of the Breed.

Every mare is registered; every mare raised a colt last year; every mare is now safe in foal, mostly to our great imported stallion Blande (36577)—a massive black horse whose splendid personality and blood lines are not excelled in the entire Percheron world.

This is the Greatest Collection of Brood Mares ever Offered in the Western Country

Come and verify all the above facts for yourself on sale day. Come and see one of the greatest breeding and importing plants in America. Write for our complete catalogue. Come early and look us over. Shenandoah is on Wabash, Keokuk & Western, and Lincoln, Nebraska City and Red Oak Branch of Burlington.

COL. F. M. WOODS, Auctioneer.

M. L. AYRES', Prop., Shenandoah, Iowa.

## Blacklegine

BEST AND MOST CONVENIENT VACCINE FOR BLACK LEG.

### PASTEUR VACCINE CO

CHICAGO  
SAN FRANCISCO

### PREVENTS BLACKLEG

Vaccination with BLACKLEGOIDS is the best preventive of Blackleg—simplest, safest, surest. Each BLACKLEGOID (or pill) is a dose, and you can vaccinate in one minute with our Blacklegoid Injector.

Every lot tested on animals, before being marketed, to insure its purity and activity.

For sale by druggists. Literature free—write for it.

### PARKE, DAVIS & CO.

HOME OFFICES AND LABORATORIES: Detroit, Mich.  
BRANCHES: New York, Chicago, St. Louis, Boston, Baltimore, New Orleans, Kansas City, Indianapolis, Minneapolis, Memphis.



## Farmers and Breeders! We Will Insure Your Hogs Against Death by Cholera

And other malignant blood diseases. Don't waste time and money experimenting with cheap stock food. Use a medicine prepared especially for the hog. Twenty years' test without a failure. We run all risk and in case THE GERMAN SWINE POWDER fails to eradicate the disease from your herd, we refund your money. The greatest conditioner and growth-promoter ever discovered, and the biggest money-maker for hog-raisers known. Prices: 100 lbs., \$25; 25 lbs., \$7; 10 lbs., \$3; 5 lbs., \$1.75; 2 1/2 lbs., \$1. Send for our Treatise on Swine—it's free. Make all checks and drafts payable to

LON ELLER, Manager and Proprietor of

The German Swine and Poultry Merchandise Co., Topeka, Kans.

## Improved Handy Herd Book FOR SWINE-BREEDERS

Is a second but improved edition of the SWINE-BREEDERS' HANDY REGISTER. Copyright, 1891, by Ira K. Alderman, Maryville, Mo

DO YOU BREED PURE-BRED SWINE? Then most assuredly you are behind the times and losing time without this PERFECT, SIMPLE, PRACTICAL, CONVENIENT Private Herd Book, that almost of itself keeps a correct record of your breeding sales, etc.

101 PAGES

Capacity of each page for litter of 1 pigs, and ample space for remarks. Cross references to preceding or succeeding litters of same dam, and costs ONLY ONE DOLLAR, or less than ONE CENT A LITTER. It is a little wonder of most practical utility. In addition it contains room in back of book, conveniently ruled for registering 98 breeding services of boars. A handy pocket on inside of back cover, full size of page. A breeders' calendar for all farm animals on inside of front cover. Neat and tastefully bound in flexible cloth. Small enough to carry in your coat or hip pocket, or slip in an ordinary pigeon hole of your desk and large enough for any practical breeder.

Nothing Better Ever Devised!

Nothing Better Ever Will Be!

Sold on an absolute guarantee of satisfaction or your money refunded on return of book, and no questions asked.

Sent prepaid to any address on receipt of price—ONLY ONE DOLLAR. The Handy Herd Book and the Kansas Farmer, one year, for \$1.75. Address KANSAS FARMER CO., Topeka, Kansas.

WHEN WRITING ADVERTISERS PLEASE MENTION THIS PAPER.

## Ring-Bone

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

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

## LUMP JAW No Cure No Pay.

W. S. Sneed, Sedalia, Mo., cured four steers of lump jaw with one application to each steer; and J. A. Keesman, Osborn, Mo., cured three cases with one application to each. Hundreds of similar testimonials on hand. Full particulars by mail. Write to CHARLES E. HARTLETT, Columbus, Kansas.

When writing advertisers please mention this paper.