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KANSAS FARMER.

Established in 1863.

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

E. B. COWGILL.....President
J. B. MCAYRE.....Vice President
D. C. NEELIS.....Secretary and Treasurer

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E. B. COWGILL.....Editor
I. D. GRAHAM.....Associate Editor
H. A. HATH.....Advertising Manager

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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 \$15.00 per year, including a copy of the Kansas Farmer free. Special rates for displayed live stock advertising.

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

Every advertiser will receive a copy of the paper free, during the publication of the advertisement. Address all communications to

KANSAS FARMER CO.,

116 West Sixth Ave., Topeka, Kans.

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BLOCKS OF TWO.

The regular subscription price for the KANSAS FARMER is one dollar a year. That it is worth the money is attested by the fact that thousands have for many years been paying the price and found it profitable. But the publishers have determined to make it possible to secure the paper at half

price. While the subscription price will remain at one dollar a year, every old subscriber is authorized to send his own renewal for one year and one new subscription for one year with one dollar to pay for both. In like manner two new subscribers will be entered, both for one year, for one dollar. Address, Kansas Farmer Company, Topeka, Kans.

For farmers old and young the International Live Stock Exposition, which opens at Chicago Stock Yards, November 28, is the greatest educator in the world. At this colossal show everything that is best in the breeding, raising, feeding, and finishing of stock will be shown with such admirable examples that the interested spectators can not fail to gain many new and valuable ideas.

In publishing letters from correspondents the signature is often printed, "Subscriber," "Reader," "Farmer," or some other. The editor prefers to print the real name of each correspondent, but he always respects the wishes of the correspondent in this regard. From the frequent appearance of these non-de-plumes some assume that it is not necessary to attach the real name to each communication. On this account, the correspondence of the editor's waste-basket is often very large. Moral: Be sure to sign your real name to everything you write to the editor, or to any department, if you hope to receive any attention.

The newest nation, the little Republic of Panama, seems to be getting along nicely. Its revenues, derived from the railroad concession, from duties on imports, etc., are ample for all needs. The security afforded by the resolute position of the United States forbidding armed conflict is ample against attempts on the part of Colombia to bring the seceded state back to its former relations as a part of Colombia. The recognition practically accorded by France, following that of the United States and, doubtless, soon to be followed by Great Britain and Germany, render it safe to assume that the independence of the little isthmian republic will be perpetuated unless its people shall, some time, desire annexation to the United States, and this country shall find it more desirable to have complete sovereignty rather than a protectorate over the land of the proposed inter-oceanic canal.

The strike of street-car employees in Chicago threatens to develop into a general contest between the labor unions and the employers' association of the city. Spokesmen for the unions claim that they are backed by the organized labor forces of the entire country. It is admitted on both sides that such a contest is essentially war, and, in the memorable words used by General Sherman at the opening of the Civil War, "War is hell." This is a short and, perhaps, unfeeling statement of the prospect for want and woe to thousands who are powerless to escape the miseries entailed by the prospective conflict. Arbitration has been suggested. The employers sig-

nify their willingness to accept this as to questions of wages but are unwilling to consider the question of recognition of organized labor. It is suggested that the employers have determined to eliminate the unions. The police force has been greatly increased and is endeavoring to afford protection to those who try to operate the cars. In the meantime, all Chicago is at great disadvantage on account of impeded transit.

ANIMALS LOW, MEATS HIGH.

Cattle and hogs are now selling on the fat-stock markets at about half the prices they commanded a little over a year ago. Top prices at Kansas City for the week ending September 20, 1902, were \$8.75 for steers and \$7.80 for hogs, against \$4.50 for steers and \$4.97½ for hogs last Friday. The record price \$8.75 for steers was for an extra lot of Hereford-Shorthorns, while the price of last Friday was for an extra fine lot of Angus.

A remarkable fact to be noted in this connection is that the consumer is paying rather more for his pork and about the same for his beef as when the farmer was receiving the fancy prices of 1902. The retailer of meats claims that he, too, is paying last year's prices. There is only one other place for the difference to go and that is the pocket of the packer. If it be conceded that the packer worked without profit last year, it is undoubtedly true that he is making enormous profits now.

The question is even seriously asked whether the present spread of prices will not justify the farmer in again dressing his hogs, curing the meat according to the custom of the days of his father, and supplying town folks as they were supplied in the days of auld lang syne. The dressed-beef problem is a more complicated one. Should the local butcher reestablish his slaughtering appliances, he would doubtless soon find competitors selling packinghouse beef at prices which he could not meet.

The consumer's side of the meat problem is, therefore, a hard one to take care of in the case of beef. The producer's problem is being solved by many farmers by increased attention to the dairy side of the cattle industry.

Whether it is advisable for the cattle-raiser to change from beef-production to dairying is a question which will not be answered here. But the regular income which flows from a herd of good dairy cows looks good just now in the eyes of many a farmer whose balance sheet of beef-cattle accounts for the last year has a most unattractive appearance. Milking cows is, to many, an undesirable job. It has to be done twice every day. Hired hands do not take kindly to milking. But the prosperous condition of the dairy farmer is compensation for a good many inconveniences. This condition is especially noticeable in case the home separator is used. The old cow has enabled many a young farmer to get a start and has helped many an older farmer past a difficult portion of his life's journey. The old cow is just as willing to perform

these services now as in times past. She has the advantage that she is now a better cow than ever before. She has been improved; the feeds she needs are now better understood than ever before. The introduction of alfalfa was a great help to the fat-stock industry but a greater to the dairy industry. While present conditions are favorable to dairy development, it must not be thought that profits on beef-production are at an end. People will have meat. Well-bred, well-fed beeves are not profitless now. The well-bred calf of next spring may reach the shambles on the crest of a boom in meat prices. Society will find a remedy for the oppressions of combined packers. The proper course for the stock farmer is to keep well informed on all points of the stock industry, to watch his methods and keep close financial records of all his operations, enlarging those that pay and curtailing those that are without profit. Let it not be forgotten, however, that only the best stock pays in times of low prices. The stock farmer who prospers now is the one who has good stock and is still improving it.

GRANGERS' BANQUET.

One of the enjoyable events of the season for the four granges of Shawnee County, Kansas, was the banquet and union meeting held last Saturday at the pleasant rooms of Topeka Post, G. A. R. The meeting was presided over by Maj. Wm. Sims, a charter member of Oak Grange, and for many years president of the First National Bank of Topeka.

Those in charge of the tables were overwhelmed by the abundance of the contents of the baskets. The bracing air and the drive from the country had provided good appetites, the supplies were of the best that this land of plenty produces; but the big assembly was fed to the full and yet many baskets were unopened.

After the banquet, Muddy Creek Grange opened the program with a declamation by Mr. J. G. Jones, by way of illustrating this grange's topic, "How to Make Grange Meetings Profitable to Old and Young." Speaking on this topic, Mr. Dickinson, of Muddy Creek, advocated giving the young people a liberal share of the time in which to present such matters as interest them. Older people enjoy the social half-hour before the formal proceedings. This grange further illustrated its plan for making the grange interesting by presenting a flag-drill by eight young ladies in costume, under the direction of Mrs. Shields.

Berryton Grange called on Mrs. N. L. Tevis to introduce its topic, "Fraternity in the Grange." She recited Ella Wheeler Wilcox's poem, "Two Kinds of People." These are shown to be "those who lift" and "those who lean." Mrs. Tevis declared that grangers are lifters. They lift themselves, they lift each other, and they lift humanity. By becoming better acquainted they learn to value each other. Helpfulness and sympathy result from the fraternity of the Grange. Dr. Taylor continued on behalf of Berryton Grange in a humorous discussion of "Our Wives." He apologized for
(Continued on page 1192.)

Agricultural Matters.

REPLIES FROM THE AGRICULTURIST KANSAS EXPERIMENT STATION.

How to Disk Alfalfa.—Alfalfa for Horses.

Some time last fall I wrote you concerning disking prairie. I tried the disking in the following manner: I set the disk at nearly as great an angle as I could, then proceeded to disk one way about two inches deep. I can not say that I have improved my meadow any. During the summer, I heard that the ground must be thoroughly pulverized. Please instruct me as to how to go at the disking; how to or at what angle to set my disk, whether to disk one way or to cross disk. I would like to improve my meadow as it is getting very bad; in places there are more weeds than grass. I disked my meadow just as the first green made its appearance.

The talk has been here that alfalfa hay is not good for driving horses or horses that work hard in summer; the people claim it is hard on the horses' kidneys and also makes them sweat more than if fed with prairie hay. They also claim that it makes them short-winded. How about that? I feed all my stock alfalfa winter and summer and I like it.

Reno County. P. D. GAEDDERT.

Doubtless you will observe more benefit from the disking next season than you did this. The plan of disking one way is all right provided you disk thoroughly. The disk may be lapped one-half or the sod may be disked more than twice if thought advisable. In any case, the disk should be followed with the harrow. The purpose is to kill some of the sod and cause a new growth of grass, also to leave a loose mulch over the surface which will prevent the soil from drying out. In disking sod at this station last spring, it was observed that when the harrow did not follow the disk the sod was not killed to any extent; also the ground was left open and in a condition to increase the drying of the soil rather than to decrease it. A thorough harrowing, however, after the disking will break up the soil and leave a loose mulch over the surface.

In renewing the old meadow it may be advisable to sow a little grass-seed. Bromus inermis is a variety which is sometimes used in this way and I believe will grow well in your locality. For eastern Kansas, it will be well to sprinkle a little clover over the field, and in case your meadow is bottom land, it may be advisable for you to sow a little common red clover.

Old meadows are always benefited by liberal applications of well-rotted stable manure. In case the land can be broken and profitably used in the production of other crops, it may be best to seed other land to grass and break up the meadow. As a rule, grasses should be used in rotation with other crops. After land has been cultivated in corn or wheat for many years, it loses its humus and gets into bad tilth. The mellow texture and excellent tilth of virgin soils can only be secured again by laying the land down to grass for a few years. The Bromus inermis is a grass which, I believe, will prove to be an excellent one for you to grow in your locality.

Your question in regard to feeding alfalfa to horses, I have referred to Professor Erf, who has charge of the live-stock department. The Annual Report for 1889 is out of print now so that a copy can not be sent you.

A. M. TENEYCK.

No ill effects have been noticed on horses that have been fed alfalfa hay in moderate quantities. If fed without other feeds or in large quantities there is no doubt that alfalfa hay will derange the system slightly and it apparently causes a horse to sweat more than if fed on prairie hay. O. ERF.

Velvet Beans.—Cassava.

Please give me any information as to whether velvet beans, also cassava could be grown in western Kansas? I have land in Gray County, on the

South side of Arkansas River, bottom land, also some upland, and desire to plant some there.

Has your station made any tests of the above-mentioned plants as yet, and if so, with what results?

Johnson County. ROBERT GROSSER.

Cassava is a tropical plant, a native of Brazil. It is cultivated for its strachy roots which are used extensively for human food and also as food for live stock. It is a very tender plant, its growth being stopped by a light frost or even cool weather. It can only be cultivated in Florida and in a narrow strip of country extending west along the Gulf of Mexico. Many attempts have been made to grow it farther north but without success. No attempt has been made to grow cassava at this station.

The velvet bean is also a native of the tropics and was introduced into the United States from India, by the United States Department of Agriculture some twenty-five or thirty years ago. It received little attention prior to the year 1895, being grown in Florida and other Southern States as an ornamental vine. The last few years it has come into prominent use in the South as a forage crop. In a favorable climate it is a rapid-growing plant, producing a large amount of fodder, and is also a great yielder of seed where the season is long enough so it can mature. In Florida, the yields are from two to four tons of hay and twenty to thirty bushels of seed per acre. The velvet bean belongs to the same class as the soy-bean and cow-pea. The velvet bean will not mature seed except in the extreme Southern States. As far north as Kansas the cow-pea is preferable for forage purposes and the soy-bean for the production of grain. Both the cow-peas and soy-beans are good drought-resisting crops and may be successfully grown in a large part of western Kansas. The velvet bean has been planted in a small way at this station but no special record has been kept as to the results of the trials. Wherever the velvet bean ripens seed it is considered to be equal or superior to the cow-pea, but where seed must be purchased each year it does not equal that crop. Although it is very rich in protein, the feeding-value of the bean is not so great as that of soy-beans or cow-peas, neither is the fodder so valuable a feed as cow-pea hay.

A. M. TENEYCK.

Grass for Pasture for Hogs, Horses, and Cattle.

Will you or some of the readers of the KANSAS FARMER please inform me through your valuable paper what kind of grass would give the best results for pasture? I have ten acres near my house that I wish to seed to pasture for hogs and calves, and twenty acres one-half mile from the house that I wish to seed to grass for horses and cattle. What kind of grass had I better sow and when is the best time to sow it? I have just finished plowing the ground. F. W. WOLFF.

Washington County.

In Marshall County, about thirty miles east of you, English blue-grass is being grown successfully both for pasture and hay. I can also recommend for seeding in your locality Bromus inermis and orchard-grass. As a pasture for hogs I would recommend alfalfa, but if the plan is to provide a pasture for calves also, the alfalfa alone can hardly be recommended as a safe pasture. Alfalfa makes a good pasture for horses but can not be safely used for cattle.

Some trials have been made in seeding alfalfa and Bromus inermis together for pasture, and up to this time only good reports have been received from these trials. The alfalfa and Bromus grow well together, producing more abundantly than the grass without the alfalfa, and forming a better sod and a more permanent pasture than is given by alfalfa seeded alone. It is claimed that no injury comes to cattle in feeding upon the mixed pasture, while as is well known the feeding upon alfalfa pasture has often caused bloat and death. Experiments have not been made sufficient to determine

the question as to whether the mixture of Bromus inermis and alfalfa is always a safe one for pasturing cattle. At this station a field has been seeded with alfalfa and Bromus and experiments in pasturing will be carried on next season.

You might try the Bromus and alfalfa on the small pasture near your house. On the larger field, where you intend to pasture cattle, seed the following mixture of grasses: Orchard-grass ten pounds, meadow fescue eight pounds, Bromus inermis six pounds, and one or two pounds of common red clover per acre. Wherever red clover will grow, a little should always be seeded with other grasses for pasture or meadow. Clover gets its nitrogen from the air and acts as a host plant or feeder to the other grasses. In seeding alfalfa and Bromus inermis together for pasture, sow eight or ten pounds of each.

It is now too late to sow grasses this fall, and often spring-seeding is more successful than fall-seeding. Prepare a good seed-bed as soon as the ground is in good condition next spring, sow the grass broadcast, and cover with light harrowing. In case alfalfa is seeded, it is often better to sow with the drill and in the seeding of grasses we have found the wheel-barrow seeder to be a good implement for broadcast seeding, although good results can be obtained by the old custom of seeding by hand. A. M. TENEYCK.

Measuring Hay.

This office is collecting information concerning the methods used in the various States and Territories for measuring hay. We shall be pleased to receive from you information upon the following points:

1. Will you kindly state whether there is in your State any law fixing the number of cubic feet which should be calculated as the equivalent of a ton of hay?
2. How many cubic feet is it customary in your State to calculate as the equivalent of a ton of hay under various conditions?
3. What are the usual methods for measuring stacks of hay in order to determine their cubic contents?
4. What are the modifications to the above to allow for differences in the kind of hay, the length of time it has been in stack, and the portion of the stack in which the measurement is made?
5. Can you give the addresses of dealers in hay or of individuals who are likely to be able to give further information upon these subjects?

Any help you may be able to afford in collecting these statistics would be greatly appreciated.

A. S. HITCHCOCK,
Acting Agrilogist.

Washington, D. C.

I had no particular knowledge of the subject so that I could not at once give you any definite information upon any of the points named in your letter of October 7. I placed your letter in the hands of one of our advanced students, Mr. C. C. Elling, who has made some investigation and has secured some answers to your questions, which I will submit:

1. There is no law in the Kansas statutes specifying the number of cubic feet in a ton of any kind of hay.
2. By the ordinary practice in some parts of eastern Kansas, a ton of timothy hay in the stack is sold by measure as follows:
Moderately settled, 512 cubic feet per ton.
Medium settled, six months after stacking, 500 cubic feet per ton.
Old stack, 495 cubic feet per ton.
Two hundred and seventy cubic feet per ton is allowed for baled hay. In the case of prairie hay, the same figures are sometimes used for stacks not thoroughly settled, but for old, well-settled stacks, 343 cubic feet is in some cases considered a ton. No figures have been found for alfalfa.
3. For square or rectangular stacks, multiply the width by the height by the length of the stack. Or if the topping out begins at the ground, multiply the number of square feet that it covers by one-third the height of the

It Must Come.

As inevitable as the changing seasons of the year is the change which comes to every woman. And just as one anticipates the changes of other seasons it is wise to anticipate this change of season and prepare for it. In this way the discomforts and disasters suffered by many women at the period of change can be avoided or overcome.

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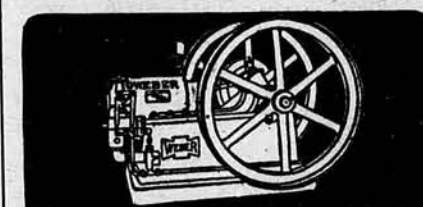
J. S. Carlisle, Esq., of Manchester, Coffee Co., Tenn., writes: "I have been using your medicines for the last sixteen or eighteen years in my poor-house. I am superintendent of the Coffee County Poor-house and Asylum combined. Your 'Favorite Prescription,' 'Golden Medical Discovery,' and 'Pleasant Pellets' are the best medicines for the diseases for which they are recommended, that I ever used. They saved my wife's life at the time of 'change of life.' I have been recommending your medicine to many afflicted women and have also guaranteed that if it did not cure I would pay back the money spent for it. I have told our druggist that if the people came back and said Doctor Pierce's medicines did not give satisfaction, to give them back their money and charge it to me. I have not once been called upon to refund. I have never found anything to equal the 'Favorite Prescription' for diseases of women."

Dr. Pierce's Common Sense Medical Adviser is sent free on receipt of 21 one-cent stamps for the paper covered book, or 31 stamps for the cloth bound. Address Dr. R. V. Pierce, Buffalo, N. Y.

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TOWER'S FISH BRAND WATERPROOF OILED CLOTHING
MADE IN BLACK OR YELLOW
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Modern Merchandising



Have you ever stopped to think about the question of getting your household supplies to the best advantage? Are you perfectly satisfied with the way things are running—with the prices you pay, the quality of the goods, the range of selection and the general question of making both ends meet? Perhaps you buy your supplies from the cross-roads store, just because your grandfather did. Perhaps you are tied up to the general store because you can trade in your butter and eggs at a low price and take it out in trade at a high price. Possibly you have never thought about it one way or the other. It is time to think. You have got to live and support your family. Your income is limited to so many dollars per year, and you have got to figure out the expense account so that things will come out right at the end of the year. If you can make both ends meet nicely and lay aside a tidy sum for a rainy day, you are only doing what every head of a family should endeavor to do, and if you don't do it you are simply inviting misery for the next time the crop fails. If a dollar looks as big to you as we think it does, we want you to think over this question of modern merchandising and see just what it means. It means different things to different people. To some it means buying everything on credit, then mortgaging the farm when settlement day comes around. Others think cheap goods the pathway to economy—the cheap, worthless trash that is advertised so brazenly at "the lowest price on earth." Many people send off to the city and get a jack knife at a 25 cents saving, and then fall back into the old rut in buying the balance of their supplies. Our idea of modern merchandising is to supply all your wants—everything you eat, wear or use—for yourself, your family and the hired man, at an average saving of 15 to 40 per cent, which means that if your yearly purchases amount to \$200, you can save something like \$50; or \$100 if it costs you \$400 a year to live. Are you so well off that \$100, or even \$50 does not interest you? Then again, consider the advantages. Absolutely reliable merchandise of the very best quality, and an unlimited range of selection. New goods. Prompt service. Prices that spell economy, and the certain knowledge that absolute satisfaction is the keynote to every transaction. To make trading with us possible, we issue a catalogue of 1128 pages, in which almost everything imaginable, including Vehicles and Farm Implements, is illustrated, described and priced. This catalogue can be absolutely depended upon and enables you to select your entire bill of merchandise without hurry or confusion and with the certainty that everything will be found exactly as described or you need not keep it. We ask you to get out of your present rut and give our methods a trial. We satisfy others and will satisfy you. There never was a better time than right now to begin, for we have just issued a new catalogue full of the things you will need to see you through this winter, and you can make no better investment than to fill out this coupon and send it to us now while the subject is in your mind. We ask 15 cents, merely as an evidence of good faith on your part. If you will risk 15 cents, we will risk sending you a catalogue that costs us over half a dollar to print and is so big that it requires 26 cents postage. It is our 76 cents against your 15 cents. Will you do it? Write today.

Laying in Supplies: Living from hand to mouth is one way of living, but why not get your supplies on a wholesale basis and avoid the petty annoyances of retail buying, to say nothing of making four dollars go as far as five dollars used to. That's the grocery list you see hanging on the wall. Supplied with loops to hang up with. A postal will bring it. Nothing like groceries for a foundation for a 100-lb. freight shipment.

Montgomery Ward & Co.

Michigan Avenue, Madison and Washington Streets, Chicago

Thousands of readers of this paper noticed our advertisement last month and sent in their application for our Catalogue No. 72. A new edition is just off the press. Requests will be filled in order of their receipt. Do not delay.

Montgomery Ward & Co., Chicago

Enclosed find 15 cents for partial postage on Catalogue No. 72, as advertised in Kansas Farmer.

Name _____ (Be sure to write very plainly)

Postoffice _____

Route No. _____ County _____ State _____

stack. To find the number of cubic feet in the top of a stack follow the same rule, measuring the height of the stack from the point where the topping out begins, add this result to the number of cubic feet found by multiplying together the length, width and height of the rectangular portion. For round stack, divide the average circumference of the stack by 6.28 and multiply the quotient by 9.86; multiply this product by the perpendicular height of the stack from the bottom to the point where the stack begins to top out. To find the cubic feet in the top of the stack, divide the circumference at the point where the stack begins to top out by 6.28, multiply the quotient by 9.86, and multiply this product by one-third the height of the stack top. In a round stack 512 cubic feet is usually considered a ton where the stack is fairly well settled, or 540 cubic feet for newly stacked hay. Another rule for determining the cubic feet in a round stack is to multiply the average circumference in yards by itself and this product by four times the height in yards. Divide the last product by 100 and multiply the quotient by 27. For very old stacks, multiply the number of square feet in the bottom of the stack by one-third the height. Usually the whole stack is measured and sold by the same standard or number of cubic feet per ton. No figures were found as to the difference in the number of cubic feet which would be required to make a ton in different portions of the stack, i. e., top or bottom.

The above letter and answer is published by the permission of Professor Hitchcock and with the request that should any reader have further information along this line he will do the writer a special favor by furnishing such information. I especially desire to know what rules if any are used for measuring alfalfa in the stack or mow.

A. M. TENEYCK.

The Nation's Crops.

Preliminary returns to the Chief of the Bureau of Statistics of the Department of Agriculture on the production of corn in 1903 indicate a total yield of about 2,313,000,000 bushels, or an average of 25.8 bushels per acre, as compared with an average yield of 26.8 bushels one year ago, 16.7 bushels in 1902, and a ten-year average of 25.9 bushels.

The following table shows for the twenty principal corn States the preliminary estimates of average yield per acre, in bushels, in 1903, with the final estimates for 1902 and 1901, and

the mean of the averages for the last ten years:

	1903	1902	1901	10-year
	Bush.	Bush.	Bush.	average
Illinois	34.3	38.7	21.4	32.8
Iowa	27.0	32.0	25.0	31.3
Nebraska	27.8	32.3	14.1	26.6
Kansas	26.8	29.9	7.8	20.2
Missouri	29.9	39.0	10.1	26.8
Texas	24.2	8.1	11.6	17.2
Indiana	33.2	37.9	19.8	32.1
Georgia	11.7	9.0	10.0	10.6
Tennessee	23.5	21.9	14.2	21.4
Kentucky	26.6	27.0	15.6	24.9
Ohio	30.0	38.0	26.1	33.0
Alabama	14.8	8.4	10.9	12.3
North Carolina	14.7	13.9	12.0	13.0
Arkansas	20.9	21.3	8.1	17.5
Mississippi	18.4	11.5	10.9	14.2
Virginia	21.8	22.0	22.2	19.8
South Carolina	10.3	10.4	6.9	9.1
South Dakota	29.9	18.9	21.0	20.0
Oklahoma	23.3	25.8	7.3	19.5
Pennsylvania	31.2	36.1	35.0	33.1
United States	25.8	26.8	16.7	23.9

The general average as to quality is 83.1 per cent, as compared with 80.7 last year, 73.7 in 1901 and 85.5 in 1900. It is estimated that about 5.2 per cent of the corn crop of 1902 was still in the hands of farmers on November 1, 1903, as compared with 1.9 per cent of the crop of 1901 in farmers' hands on November 1, 1902, 4.6 per cent of the crop of 1900 on November 1, 1901, and a six-years' average of 6.1 per cent.

The preliminary estimate of the average yield per acre of buckwheat is 17.7 bushels, against an average yield per acre of 18.1 bushels in 1902, 18.6 bushels in 1901 and a ten-year average of 17.6 bushels. The average for quality is 91.4 per cent, against 88.1 last year, 93.3 in 1901, and 90.2 in 1900.

The preliminary returns indicate a flaxseed crop of about 27,300,000-bushels, or an average of 8.4 bushels per acre, as compared with a final estimate of 7.8 bushels per acre in 1902. The average as to quality is 84.9 per cent.

The preliminary estimate of the average yield per acre of potatoes is 84.7 bushels, against an average yield of 96 bushels in 1902, 65.5 bushels in 1901, and a ten-year average of 79.5 bushels. The average as to quality is 86.4 per cent as compared with 90.4 per cent in November last, 78.4 in November, 1901, and 88.1 in November, 1900.

The preliminary estimate of the average yield per acre of hay is 1.54 tons, against an average yield of 1.50 tons in 1902, 1.28 tons in 1901, and a ten-year average of 1.33 tons. The average as to quality is 91.3 per cent, against 85.7 per cent in November last, 91.3 in November, 1901, and 89.7 in November, 1900.

The preliminary estimate of the average yield per acre of tobacco is 786.3 pounds as compared with the final estimate of 797.3 pounds in 1902. The average as to quality is 85.9 per cent.

The preliminary estimate of the average yield per acre of rough rice is 32.1 bushels, against an average yield of 27.3 bushels in 1902, 32.3 bushels in 1901, and 30 bushels in 1900.

Facts About Panama.

The commerce of Panama amounts to about three million dollars per annum, its population to about 300,000, and its area to 31,571 square miles, or nearly equal to that of the State of Indiana. These figures are supplied by the Department of Commerce and Labor through its Bureau of Statistics, and are the latest available data on commerce, population, and area. Those of commerce are from the report of the United States consuls at Panama and Colon, which have just been received, and not yet published; those of population are based upon the latest official estimate, which shows the population in 1881, and was based upon the census of 1871; while the figures of area are from accepted geographical authorities and are those of the area of the "Department of Panama" of the Colombian Republic. The principal ports are Panama, on the Pacific coast, and Colon, on the Atlantic side, and these ports are visited annually by more than one thousand vessels, which land over one million tons of merchandise and nearly 100,000 passengers, chiefly for transfer over the Panama Railway, 47 miles in length, connecting the Pacific port of Panama with the Atlantic port of Colon.

Colon, or Aspinwall, as it is sometimes called, has a population of about 3,000 persons. The city of Panama has a population of about 25,000. It was founded in 1519, burned in 1671, and rebuilt in 1673, while Colon is of much more recent date, having been founded in 1855.

The population, which, as already indicated, amounts in number to about 300,000, is composed of various elements—Spanish, Indian, Negro, and a limited number of persons from the European countries and the United States, especially those engaged in commerce and transportation and the operation of the Panama Railway. A considerable number of the population is composed of persons brought to the Isthmus as laborers for the construction of the canal, and of their descendants. Since the abolition of slavery in Jamaica a considerable number of blacks and mulattoes have settled on the Isthmus as small dealers and farmers, and in some villages on the Atlantic side they are said to be in the majority, and as a result the English language is much in use, especially on the Atlantic side. Some of the native population have retained their

customs, speech, and physical type, especially those in the western part of the province, and claim to be descendants of the natives found in that section by the Spaniards when they discovered and conquered the country.

Of the commerce of Panama, the United States supplies a larger share than any other country. The importations at the port of Colon during the fiscal year ended June 30, 1903, as shown by the report of the United States consul, amounted to \$952,684, of which \$614,179 was from the United States, \$119,086 from France, \$118,322 from England, \$76,386 from Germany. The figures of the fiscal year 1903 show a considerable increase from those of 1902, in which the value of the imports at Colon were \$776,345. Of the \$614,179 imports from the United States at Colon in 1903, \$200,744 was dry goods, \$189,333 provisions, \$59,890 coal, \$38,642 lumber, \$32,900 kerosene, \$30,400 liquors, and \$31,940 hardware. The value of the imports from the United States in 1903 exceeded those of 1902 by about \$160,000. The exports to the United States from Colon in 1903 amounted to \$173,370, of which \$75,432 was bananas, \$54,960 cocoanuts, \$12,472 turtle shells, \$9,400 ivory nuts, \$6,460 hides, and \$5,924 coffee.

From the port of Panama the exports to the United States in the fiscal year amounted to \$193,342, of which \$56,767 was hides, \$49,974 india rubber, \$27,805 cocobolo nuts, \$16,599 ivory nuts, \$13,372 deerskins, and \$6,908 coffee. The consul at Panama states that the imported article comes mostly from England, Germany, France, Italy, and the United States, but gives no statistics of the imports.

Panama is connected with San Francisco by a weekly steamer schedule operated by the Pacific Mail Steamship Company, and with Valparaiso by a weekly steamer schedule operated by the Pacific Steam Navigation Company, and South American Steamship Company. Two passenger and two freight trains leave Panama daily for Colon and Colon daily for Panama. The time for passenger trains over the 47 miles of railway is three hours.

From Panama there is one cable line north to American ports, and one to the south. The actual time consumed in communicating with the United States and receiving an answer is stated by the consul to be usually about four hours. There are also cable lines from Colon to the United States and Europe.

The money of the country is silver, the rate of exchange having averaged during the past year about 150 per cent.

Horticulture.

Plant Nut-trees.

EDITOR KANSAS FARMER:—This is the season of the year to gather nuts and acorns for next spring's planting. Walnuts, hickories, pecans and acorns can be safely kept through the winter by spreading out on the ground and covering them up with about two inches of fine soil. Very early in the spring they can be removed and planted in their permanent locations. All nut-trees root deep and will not stand transplanting as well as other deciduous trees.

SOIL.

The walnut prefers a deep, rich bottom soil, where the top roots may secure plenty of moisture. If your farm is on the prairie, select a broad open draw, or better yet, an open dip found on many pieces of prairie, may be an excellent location for walnut, one where the water and wash from the surrounding soil may be deposited; but avoid a soggy soil where the water will not drain off. Walnuts may be grown in more exposed situations, but the annual wood will not be so great as on the better soil. Trees grown in rows will be much easier to care for, besides they will largely prune themselves when planted in solid bodies.

The oaks and hickories are to be found along many of our streams, reaching out over the rocky clay hills. I have seen many good stands of oak on a steep hillside that was so barren of soil that weeds and grass made a poor growth; all such locations should be planted with nut-trees, as they root deep, and soon afford a soil protection that will prevent future washing. Such soil is of no value to the owners. They can be planted for the beauty they afford during the first fifteen years of their life, and for post and pole purposes later on.

GROWTH.

It is the general impression that all nut-trees grow very slowly. I would suggest that many readers of the KANSAS FARMER plant two bushels of nuts next spring, then watch their growth for the next ten years. I have several fine specimens of the red oak that are 16 years old with a diameter of 6 to 7 inches, of corresponding height and spread of branches. They have been admired for the last 10 or 12 years, and have paid me many times over for all the trouble they cost. These trees do not need to cost any money at all; simply a little work at the proper season of the year. The growth of the walnut for the first dozen years is quite rapid. They begin to furnish nuts when from 8 to 10 years of age. This adds joy to the heart of the small boy. Let every Kansas farmer have his wood lot and that lot ought to contain a goodly number of nut-trees.

VALUE.

The black walnut is too well known for me to give much of a description. However, many planters expect too great a return from this tree. Valuable walnut is from 75 to 200 years old. The young growth being quite soft and sap-py. The price of walnut lumber is constantly advancing. Many of our best logs are being shipped to Europe. It will take many generations in the future to grow walnut of sufficient size for first-class lumber. Walnut can be utilized in many ways about the farm at an early age, and should by all means be planted.

The white oak is one of the most productive trees growing in the United States. It is used in more ways than any other wood. Millions of posts, ties, bridge timbers, and flooring are made from it, to say nothing of the millions used annually in making furniture. The bur and red oak are less valuable, but they are so hardy that millions of them should be planted every year.

The hickories should not be overlooked, the bitter nut being the most common in the West. The shell-bark will grow to a good size on fairly rich soil. The timber and nuts of the latter are valuable. The pecan grows and fruits well in the southeast part of the

State. However, in the vicinity of Topeka we have very few bearing pecan trees. The beech and chestnut are both noble nut-bearing trees, but I never saw a good specimen of either sort growing west of the Missouri River. For Kansas planting of nut-bearing trees, I would confine myself to the three growing in a native state, namely, the walnut, oak, and hickory.

GEO. W. TINCER.

Topeka, Kans.

Successful Fruit Growing.

W. H. COULTIS, BEFORE SHAWNEE COUNTY HORTICULTURAL SOCIETY.

Not more than thirty years ago, the general opinion prevailed that this State was not well adapted to fruit-raising; in fact, it was considered a failure in that respect. Horticulture, that higher art of agriculture, has been making wondrous strides in this State during the last quarter of a century. To-day there is no other State in the Union that can surpass Kansas in the variety or quality of fruit. The only question now is, how can this business be conducted to make it profitable?

The facts are, that damage in transit and climatic conditions, coupled with the carelessness of many planters, result in killing nearly half the trees sent out each year; and further neglect results in the loss of one-half of those remaining before the end of the third year. It is estimated by some, that of all the trees planted, not more than one in twenty comes to full fruiting. This is not so much on account of climatic conditions as from ignorance and carelessness on the part of the average planter. Skilled orchardists have little trouble in bringing 90 per cent of all trees planted to full fruiting.

With the growth of the country, an increased demand for the products of the orchard and fruit garden must necessarily make a steady market for all the merchantable fruit we can produce for years to come.

Twenty years ago a fruit orchard of fifty acres in extent was considered a wonder; now, there are many orchards of one thousand acres each; the fruit of which was a luxury a few years ago, but is fast becoming a recognized necessity; and the demand is expected to grow even more in the future than in the past.

In my judgment, great care should be exercised in the selection of a location to plant an orchard. It should be selected with a view to its fertility, because we can not grow apples to perfection on poor land any better than we can grow corn or any other crop. I would recommend that there be no departure from this rule, provided the land is well drained. Then, be sure that you select only such varieties as you know are well adapted to this climate; the more care you exercise in this respect, the more successful you will be in fruit culture.

Inform yourself as to what a tree should be, as to shape, size, and condition. Then, by all means, select the trees from the nursery. If you do not have confidence enough in yourself to perform this important part, get some one in whom you have entire confidence to assist you in the selection of your trees. I would recommend that you get your trees from the nearest responsible nurseryman. Do not allow the roots to be exposed for a moment, if it can be prevented; in this you can not be too careful. I would not plant too deep; the depth can be secured by running a furrow with a plow at a good average depth, returning in the same furrow to widen it. Do not dig large holes. I believe it to be a positive damage, especially if the subsoil is of a clayey or alkali nature. Place the tree in the furrow, straighten out the roots in their natural position, fill in earth about half enough, then tramp firmly, and finish filling in around the tree, leaving it loose on top. Do not tramp the last filling; cultivate so thoroughly that it will remain loose about the tree the whole season. If you will follow these directions, you will not only be successful in having your trees live, but you will succeed in getting a good growth the first season, which is one of the most

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2,000 Acres, 400 acres in cultivation, balance divided in five pastures. All watered good barn and granaries. This is one of the best ranches in southwestern Kansas. Will sell very reasonable and on most liberal terms.

S. B. ROHRER, Topeka, Kansas.

important points to be secured in growing an orchard. I am more careful about this than any other part, for if you check the growth during the first season, in all probability the tree will never recover, and that gives an opportunity for the borer to attack the tree, and if you do not have a healthy tree, you can not get fine fruit.

I would advise planting not less than thirty feet apart each way for apples and sixteen feet for peaches, cherries, plums and pears. Pruning should be done very carefully; and care should be taken that it is never overdone. Study the habits of the different varieties of trees, and do not trim an Ortol, Rambo, Sweet June, or Duchess upon the same principle that you trim a Winesap or Gilpin, for one has an upright habit and should be headed back, while the other is of a spreading nature, and will bear a little trimming up and thinning out.

I would plant one-fourth Ben Davis, one-fourth York Imperial, one-fourth Winesap, one-fourth Jonathan. If for family use, I would add some fall and summer varieties.

Plant pears and cherries on high, rolling land, and do not fertilize or cultivate too much. I would plant some trees about every five years, and have young trees coming on. For pears standard trees are the best. For cherries, Early Richmond and Early Morillo are the most productive. Small fruit can be grown very successfully here. Plant enough to make it an object to care for it. For raspberries, plant Black Caps; gooseberries, Horton Seedling; blackberries, the Snyder. Of grapes, Concord is the best and leading variety, but many others may be added to prolong the season.

My observation is that fruit-growing is successful in that, if it is cared for, it is a source of revenue, seemingly extra, from the farm; and, too, it is often cared for and marketed by different members of the family; getting money out of your labor by saving the corn and other crops to be sold when prices are better, perhaps, as well as enhancing the value of your farm, and furnishing fruit for the family.

Do not make the mistake of planting fruit-trees for shade and then expect to be successful in fruit-raising. Plant for business and care for it as you would any other business with a view to reaping a reward, and I believe success will crown your efforts.

Bad Case Cured.

Graysville, Ind., October 6, 1903.
Dr. B. J. Kendall Co., Enosburg Falls, Vt.
Gentlemen:—I have just used two bottles of your Kendall's Spavin Cure and have the third ready to use. I am so pleased with your medicine as it has cured a valuable colt of a very bad curb with the use of one bottle. It has also proved valuable in many other cases. Kindly send me a copy of your "Treatment on the Horse and His Diseases," for which I enclose a stamp.
Yours respectfully,
WILLIAM COPPAGE.

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FARMS in CALIFORNIA 22,000 acres irrigated lands in Fresno county, California. Raisin and Fruit Center of the World. Dairying and Stock Raising. For sale in tracts to suit on easy terms. For particulars and terms address **S. N. GRIFFITH, Resident Agent,** Fresno, Cal., or 99 Dearborn Street, Chicago, Ill.

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are invited to settle in the State of Maryland, where they will find a delightful and healthy climate, first-class markets for their products and plenty of land at reasonable prices. Maps and descriptive pamphlets will be sent free upon application to **H. BADENHOPE, Sec'y State Board of Immigration, Baltimore, Md.**

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in Barton County, Kansas, the Banner wheat county of the State; raised this year over 5,000,000 bushels. You can buy a first-class wheat farm from \$20 to \$40 per acre, with good improvements, three to ten miles from county seat. Barton is one of the very best counties in the State; good schools, churches, fine soil and healthy climate. I will take great pleasure in giving you all information you may ask for, having lived in the county 29 years. I also have for sale a number of choice farms in Pawnee County at such prices that one good crop will pay for the land. The Pawnee Valley in Pawnee County is one of the richest valleys of land on the map. I can sell you the best from \$10 to \$17.50 per acre. I have sold more land in the past two years than all other agents in central Kansas. For further information call on or address

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The Stock Interest.

THOROUGHERED STOCK SALES.

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

November 21, 1903—Henry W. Kuper and W. D. Elmore, Humboldt, Neb., Shorthorns.
 November 27, 1903—Scotch topped Shorthorns, A. B. & F. A. Heath, Republican City, Neb.
 December 2, 1903—Geo. W. Null, Odessa, Mo., Poland-Chinas.
 December 2, 1903—American Galloway Breeders' Association sale, at International Exposition, Chicago.
 December 3, 1903—100 head of Herefords, at Chicago, Ill. C. B. Thomas, Secretary.
 December 4, 1903—American Aberdeen-Angus Breeders' Association sale at Chicago. W. C. McGavock, Mt. Pleasant, Ill., manager.
 December 9, 1903—Combination sale of Poland-Chinas at McPherson, Kans. M. O. Kilmer, Mgr.
 December 10-11, 1903—Hereford cattle and Berkshire swine, Sunny Slope Farm, Emporia, Kans., C. A. Stannard, owner.
 December 11, 1903—J. R. Young, Richards, Mo., Poland-Chinas.
 December 15, 1903—Harry E. Lunt, Burden, Kans., Poland-Chinas.
 December 16, 1903—Pure-bred Shropshire sheep, E. S. Kirkpatrick, Wellsville, Kans.
 December 18, 1903—Plainville Breeders' Association combination sale of cattle and swine, Plainville, Kans.
 January 20, 1904—H. N. Holdeman, Girard, Poland-Chinas.
 January 27, 1904—David Delair, Manhattan, Shorthorns and Poland-Chinas.
 February 1, 1904—Poland-Chinas, Thompson Bros., Marysville, Kans.
 February 2 to 6, 1904—Percherons, Shorthorns, Herefords, and Poland-Chinas, at Wichita, Kans., J. C. Robinson, Towanda, Kans., Manager.
 February 2, 1904—Duroc-Jersey swine at Humboldt, Neb. Wm. Brandow, Manager.
 February 2 and 3, 1904—Benton Gabbert and others, Herefords, at Kansas City, Mo.
 February 3, 1904—Jno. O. Hunt, Maryville, Kans., Duroc-Jersey sows.
 February 4, 1904—C. E. Pratt, Frankfort, Kans., Duroc-Jersey sows.
 February 5, 1904—J. B. Davis Fairview Kans. Duroc-Jersey sows.
 Feb. 16, 1904—E. E. Axline, Oak Grove, Mo., Poland-China brood-sow sale.
 February 17, 1904—Combination sale of Angus cattle at Kansas City, Berry Lucas, Manager, Hamilton, Mo.
 February 23, 1904—Duroc-Jerseys, A. F. Johnson, Osceola, Neb.
 February 24, 1904—Duroc-Jerseys, E. J. Brown, Osceola, Neb.
 February 25, 1904—Duroc-Jerseys, Nels. Holm, Osceola, Neb.
 February 26, 1904—Duroc-Jerseys, C. G. Johnson, Osceola, Neb.
 March 1, 1904—L. M. Monsees & Sons, Smithton Mo., Jacks, saddle and roadster horses.
 March 8, 1904—F. M. Gifford, Manhattan, Kans., Shorthorns.
 April 7, 1904—Central Missouri Hereford Breeders Association Sale, Macon, Mo., S. L. Brock, Secretary.

Coming Events.

Will secretaries, or those having the management of coming events, oblige the Kansas Farmer by sending dates?
 International Live-stock Exposition, Chicago, November 28-December 5, W. E. Skinner, General Manager.
 American Percheron Horse Breeders' Association, next annual meeting will be held at the Grand Pacific Hotel, Chicago, Monday, November 30, 1903, 7.30 p. m. S. T. Thompson, secretary, Tacoma Bldg., Chicago.
 The annual meeting of the American Southdown Breeders' Association will be held in the Live Stock Record Building, Union Stock Yards, Chicago, December 1, 1903, 7.30 p. m. Frank S. Springer, Secretary, Springfield, Ill.
 Annual meeting of the Hampshire Down Breeders' Association of America, Palmer House, Chicago, December 2, 1903. C. A. Tyler, Secretary, Nottaway, Mich.
 Mission Center Farmers' Institute, Shawnee County, December 1-2, 1903; Emma W. Wallace, Secretary, Station B, Topeka.
 Kansas State Grange, Arkansas City, December 8, 9, Geo. Black, Olathe, Secretary.
 Missouri State Dairy Association, Clinton, Mo., December 8-10, E. C. Eckles, Columbia, Secretary.
 Missouri State Horticultural Society, Columbus, Mo., December 8-10, L. A. Goodman, Kansas City, Secretary.
 Fourteenth annual meeting Kansas Improved Stock-breeders' Association, Topeka, January 11-13; H. A. Heath, Secretary.
 National Live-stock Association, Portland, Ore., January 11-14, 1904. Chas. Martin, Denver, Col., Secretary.
 Thirty-third Annual Meeting State Board of Agriculture, Topeka, January 13-15; F. D. Coburn, Secretary.
 Kansas Mid-winter Exposition, Topeka, January 19-31, 1904.

The Dual-purpose Cow.

EDITOR KANSAS FARMER:—Now comes the inquiry from western Oklahoma, the short-grass country, where milking cattle have previously not been considered, for a pair of Red Polled calves. Along with the inquiry comes this statement: "I have been raising Herefords but I now want a breed of cattle which will give some milk." Hereford breeders will please not take offense. This is not my statement, but the statement of a prospective customer. In fact I would not tell it to KANSAS FARMER readers did I not remember the supercilious smile of the Hereford judge at Topeka in 1902 when he looked at my rather skinny display of Red Polls; which cows had nice, large udders with shapely, well-placed teats, full of rich milk ready to start with the slightest squeeze, while the Herefords showed, where the udder of a normal cow should be, a gob of fat with four little knots on it.

Why does this short-grass country man want a breed of dual-purpose cat-

tle? Two-cent beef means small profits, if any. Quoting from the Breeders' Gazette of November 4: "Some traders do not hesitate to say that ruin stares many a small ranchman fairly in the face at this very moment."

This answers the question. He is simply trying to meet the conditions which confront him. Much better it would have been for him now, had he not listened to the cry of the special beef-breed theorist, remembering that "it is a long lane which has no turn," and have built up his herd from a good dual-purpose breed, a "catch-em-coming and catch-em-going" breed.

And here let me say a word to those Red Polled breeders and writers (young Mr. McKelvey, in the Twentieth Century Farmer) who desire to breed out and feed out the milking trait of the Red Polls. Every inquiry I have had in the past three months

Every one knows that the leading packing firms of the country, to all intents and purposes, have entered into a combination by which they absolutely control and fix the price of the live product to the grower, and also the price of the finished product to the consumer. Representatives of the four great packing houses meet in Chicago every week-day afternoon and fix these prices for the following day, regardless of all laws relating to the supply or demand, and these prices prevail at all of our markets. By this method of business, all competition is destroyed, and the farmers, stockmen and consumers are at the mercy of one of the most far-reaching "trusts" ever organized in this country.

The truth of this assertion is obvious when you consider that fifteen months ago No. 1 beef, on the hoof, sold in Chicago from \$7.50 to \$8.65 per hundred. To-day the same quality of beef

BREEDING TABLE.

Time of service.	Mares, 340 days.	Cows, 288 days.	Ewes, 150 days.	Sows, 112 days.	Bitches, 68 days.
Jan. 1.....	Dec. 6	Oct. 10	May 30	Apr. 22	Mar. 4
Jan. 6.....	Dec. 11	Oct. 15	June 4	Apr. 27	Mar. 9
Jan. 11.....	Dec. 16	Oct. 20	June 9	May 2	Mar. 14
Jan. 16.....	Dec. 21	Oct. 25	June 14	May 7	Mar. 19
Jan. 21.....	Dec. 26	Oct. 30	June 19	May 12	Mar. 24
Jan. 26.....	Dec. 31	Nov. 4	June 24	May 17	Mar. 29
Jan. 31.....	Jan. 5	Nov. 9	June 29	May 22	Apr. 3
Feb. 5.....	Jan. 10	Nov. 14	July 4	May 27	Apr. 8
Feb. 10.....	Jan. 15	Nov. 19	July 9	June 1	Apr. 13
Feb. 15.....	Jan. 20	Nov. 24	July 14	June 6	Apr. 18
Feb. 20.....	Jan. 25	Nov. 29	July 19	June 11	Apr. 23
Feb. 25.....	Jan. 30	Dec. 4	July 24	June 16	Apr. 28
Mar. 2.....	Feb. 4	Dec. 9	July 29	June 21	May 3
Mar. 7.....	Feb. 9	Dec. 14	Aug. 3	June 26	May 8
Mar. 12.....	Feb. 14	Dec. 19	Aug. 8	July 1	May 13
Mar. 17.....	Feb. 19	Dec. 24	Aug. 13	July 6	May 18
Mar. 22.....	Feb. 24	Dec. 29	Aug. 18	July 11	May 23
Mar. 27.....	Mar. 1	Jan. 3	Aug. 23	July 16	May 28
Apr. 1.....	Mar. 6	Jan. 8	Aug. 28	July 21	June 2
Apr. 6.....	Mar. 11	Jan. 13	Sept. 2	July 26	June 7
Apr. 11.....	Mar. 16	Jan. 18	Sept. 7	July 31	June 12
Apr. 16.....	Mar. 21	Jan. 23	Sept. 12	Aug. 5	June 17
Apr. 21.....	Mar. 26	Jan. 28	Sept. 17	Aug. 10	June 22
Apr. 26.....	Mar. 31	Feb. 2	Sept. 22	Aug. 15	June 27
May 1.....	Apr. 5	Feb. 7	Sept. 27	Aug. 20	July 2
May 6.....	Apr. 10	Feb. 12	Oct. 2	Aug. 25	July 7
May 11.....	Apr. 15	Feb. 17	Oct. 7	Aug. 30	July 12
May 16.....	Apr. 20	Feb. 22	Oct. 12	Sept. 4	July 17
May 21.....	Apr. 25	Feb. 27	Oct. 17	Sept. 9	July 22
May 26.....	Apr. 30	Mar. 4	Oct. 22	Sept. 14	July 27
May 31.....	May 5	Mar. 9	Oct. 27	Sept. 19	Aug. 1
June 5.....	May 10	Mar. 14	Nov. 1	Sept. 24	Aug. 6
June 10.....	May 15	Mar. 19	Nov. 6	Sept. 29	Aug. 11
June 15.....	May 20	Mar. 24	Nov. 11	Oct. 4	Aug. 16
June 20.....	May 25	Mar. 29	Nov. 16	Oct. 9	Aug. 21
June 25.....	May 30	Apr. 3	Nov. 21	Oct. 14	Aug. 26
June 30.....	June 4	Apr. 8	Nov. 26	Oct. 19	Aug. 31
July 5.....	June 9	Apr. 13	Dec. 1	Oct. 24	Sept. 5
July 10.....	June 14	Apr. 18	Dec. 6	Oct. 29	Sept. 10
July 15.....	June 19	Apr. 23	Dec. 11	Nov. 3	Sept. 15
July 20.....	June 24	Apr. 28	Dec. 16	Nov. 8	Sept. 20
July 25.....	June 29	May 3	Dec. 21	Nov. 13	Sept. 25
July 30.....	July 4	May 8	Dec. 26	Nov. 18	Sept. 30
Aug. 4.....	July 9	May 13	Dec. 31	Nov. 23	Oct. 5
Aug. 9.....	July 14	May 18	Jan. 5	Nov. 28	Oct. 10
Aug. 14.....	July 19	May 23	Jan. 10	Dec. 3	Oct. 15
Aug. 19.....	July 24	May 28	Jan. 15	Dec. 8	Oct. 20
Aug. 24.....	July 29	June 2	Jan. 20	Dec. 13	Oct. 25
Aug. 29.....	Aug. 3	June 7	Jan. 25	Dec. 18	Oct. 30
Sept. 3.....	Aug. 8	June 12	Jan. 30	Dec. 23	Nov. 4
Sept. 8.....	Aug. 13	June 17	Feb. 4	Dec. 28	Nov. 9
Sept. 13.....	Aug. 18	June 22	Feb. 9	Jan. 2	Nov. 14
Sept. 18.....	Aug. 23	June 27	Feb. 14	Jan. 7	Nov. 19
Sept. 23.....	Aug. 28	July 2	Feb. 19	Jan. 12	Nov. 24
Sept. 28.....	Sept. 2	July 7	Feb. 24	Jan. 17	Nov. 29
Oct. 3.....	Sept. 7	July 12	Mar. 1	Jan. 22	Dec. 4
Oct. 8.....	Sept. 12	July 17	Mar. 6	Jan. 27	Dec. 9
Oct. 13.....	Sept. 17	July 22	Mar. 11	Feb. 1	Dec. 14
Oct. 18.....	Sept. 22	July 27	Mar. 16	Feb. 6	Dec. 19
Oct. 23.....	Sept. 27	Aug. 1	Mar. 21	Feb. 11	Dec. 24
Oct. 28.....	Oct. 2	Aug. 6	Mar. 26	Feb. 16	Dec. 29
Nov. 2.....	Oct. 7	Aug. 11	Mar. 31	Feb. 21	Jan. 3
Nov. 7.....	Oct. 12	Aug. 16	Apr. 5	Feb. 26	Jan. 8
Nov. 12.....	Oct. 17	Aug. 21	Apr. 10	Mar. 3	Jan. 13
Nov. 17.....	Oct. 22	Aug. 26	Apr. 15	Mar. 8	Jan. 18
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Dec. 2.....	Nov. 6	Sept. 10	Apr. 30	Mar. 23	Feb. 2
Dec. 7.....	Nov. 11	Sept. 15	May 5	Mar. 28	Feb. 7
Dec. 12.....	Nov. 16	Sept. 20	May 10	Apr. 2	Feb. 12
Dec. 17.....	Nov. 21	Sept. 25	May 15	Apr. 7	Feb. 17
Dec. 22.....	Nov. 26	Sept. 30	May 20	Apr. 12	Feb. 22
Dec. 27.....	Dec. 1	Oct. 5	May 25	Apr. 17	Feb. 27
Dec. 31.....	Dec. 5	Oct. 9	May 29	Apr. 21	Mar. 3

has been for milking strains of Red Polled cattle. Prof. Kennedy, of the Iowa Agricultural College, is the best friend the Red Polled breed has got when he occasionally recognizes dairy points in a show-ring of Red Polls. The time will come when breeders of Red Polls will "rise up and call him blessed."

But let us not in these times of low-priced beef forget our bearings and go all to milk and butter, but hold fast to that type which alone is entitled to the name, cow. WILKIE BLAIR.

Beulah-land Farm, Crawford County.

The Independent Packing Company.
 BY C. F. MARTIN, SECRETARY.

INTRODUCTION.

Because of the undesirable conditions which have existed at the various live-stock markets for some time, every grower and feeder of cattle, sheep and hogs is compelled to give the question of self-protection serious consideration, as upon the adoption of some plan to secure this depends the future success of the live-stock industry.

brings but from \$3.85 to \$5.40 per hundred pounds, a decline of fully \$3.00 per hundred or \$30.00 per head for a 1,000-pound animal. The dressed product, it will be seen, has sustained but an insignificant reduction, entirely out of all proportion to the decline in the price of live animals.

Hogs, on October 8, 1902, were selling from \$6.70 to \$7.45 per hundred. One year later they were worth but \$5.00 to \$5.65, a decline in the value to the farmers of about \$4.50 on every animal, while there is no perceptible reduction in the price of pork products to the consumer.

The decline in the price of sheep is proportionately as great as that on cattle and hogs.

Because of this manipulation at the markets, other influences have been brought to bear tending to a reduction in the price of live stock. On account of which the losses to most men who fed cattle in Kansas, Nebraska, Missouri, Iowa and Illinois during the winter of 1902 and 1903 amounted to from \$5.00 to \$30.00 per head. This depreciation in values falls entirely upon the man who raises the steers and the



Good News for Stockmen

During this month, if you will write giving statement of symptoms and conditions,

DR. HESS (M.D., D.V.S.)

The Eminent Veterinarian,

Will Prescribe FREE

for any of your ailing animals. This service would likely cost you a good many dollars if secured in the usual way. Absolutely no charge—send 25c stamp for reply. Say what stock you have—how many head of each—what stock food you have used, and mention this paper.

DR. HESS & CLARK,
 Ashland, Ohio.
 Makers of Dr. Hess Stock Food.



Spavin and Ring-bone

Once hard to cure—easy now. A 45-minute treatment does it. No other method so easy, quick and painless. No other method sure.

Fleming's Spavin and Ringbone Paste

cures even the very worst cases—none too old or bad. Money back if it ever fails. Lots of information if you write. Book about Spavin, Ringbone, Curb, Splint, Bog Spavin and other horse troubles sent free.

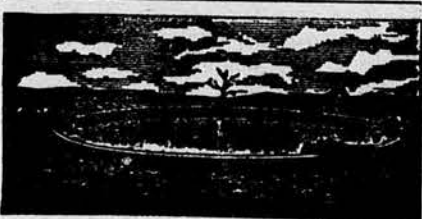
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CURES Mange and Itch; KILLS Lice, Ticks and Screw-Worms; HEALS Cuts, Wounds, Galls and all Sores.

GUARANTEED to do the work without injury to eyes or other parts of animal. At dealers or by express, prepaid, \$1.50 per gallon. 25 cent cans—dealers only. Special price in quantities. Write to-day for book and free trial Car-Sul. Address

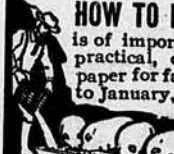
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The best system for watering stock which has ever been placed before the American stockman and cheaper because more substantial and durable. Send for descriptive catalogues. Address

HUDSON & COOK, Oklahoma City, O. T.
 We have a tank at the Kansas City Stock Yards. Call and inspect it when in Kansas City.



HOW TO FEED AND BREED HOGS

is of importance to swine growers. A practical, clean, common-sense swine paper for farmers can be had from now to January, 1905, by sending 10 Cents in Silver at once to

BLOODED STOCK,
 Oxford, Pa.

LUMP JAW

A positive and thorough cure easily accomplished. Latest scientific treatment, inexpensive and harmless. NO CURE, NO PAY. Our method fully explained on receipt of postal.

Chas. E. Bartlett, Columbus, Kans

HEIFERS FOR SALE.

Eight nicely bred Shorthorn heifers, three coming 3 years, and are due to calve next spring; five coming 2. Will price them at a bargain for want of room. Young bulls for sale. Address

DR. C. M. COE,
 915 Walnut St., Kansas City, Mo.

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BROADWAY AND 41ST STREET, NEW YORK.

HANDY TO EVERYWHERE. EUROPEAN PLAN.

G. T. STOOKHAM,
 Formerly Manager Midland Hotel, Kansas City.

man who feeds them, and amount to these enormous sums—

Cattle.....	\$680,000,000
Hogs.....	120,000,000
Sheep.....	65,000,000
	\$865,000,000

or nearly one-fourth of the total value of the live stock of the United States.

There is no just reason for these conditions—the country being generally as prosperous as a year ago, employment as plentiful, and, with the masses, times are good and the demand for meat products greater than ever, but the consumer is paying today as much for meat as one year ago. The sole excuse for this state of affairs is the desire of the manufacturers to increase their already immense profits.

PROFITS.

When we take into consideration the immense fortunes which have been amassed by the packers, we can readily appreciate the great profits which accrue to those engaged in this industry. From most reliable authority, we have been advised that the profit today, including the by-product of an average steer, is \$8.90. The profit on a 250-pound hog is \$1.00, and on the average mutton, \$1.00.

The modern packing-house of to-day has a capacity of from 1,000 to 2,500 beef cattle, and from 2,000 to 5,000 hogs, and 1,500 to 2,000 sheep per day. Suppose, for instance, we take a plant running under the lowest estimated capacity, and then divide the alleged profits on the animal into two parts. We would then have a daily profit of \$6,200, or \$1,860,000 per annum.

THE REMEDY.

The only remedy for the present evil is a healthy, legitimate competition, which does not now exist. It is absolutely out of the question to consider litigation as the panacea. It can not be accomplished the result in this case any more than it has in the Northern Securities combination, steel trust, sugar trust, etc.

With this end in view, the Independent Packing Company has been organized, in which the stockmen and consumers will be asked to take stock to such extent as they can afford. The new company will not enter the field with a declared intention of revolutionizing the business, or with the avowed purpose of destroying others already in operation, but simply as a competitor in the markets of the world. We believe that, by such honest competition, the price of cattle can be advanced from 15 to 50 cents per hundred pounds, and sheep and hogs proportionately. If only the former figures are realized, this would be an increase in value on every 1,000-pound steer of \$1.50, which is sufficient to justify every owner to take stock to the extent of \$1.00 for every beef animal he owns, and then have 50 cents on each head as profit on his investment for the first year, and, in addition, his dividends made by the packing company. The sheep- and swine-growers, we believe, should be interested to the extent of at least 25 cents per head.

One thing is certain, the oppression under which the stockmen and masses are now laboring will never be changed until they themselves change it, and we believe the plan above suggested is the only feasible one at the present time.

The packers have about \$100,000,000 invested, the stock-growers have about \$3,500,000,000, so it can be readily seen that, if the latter desire better conditions and an honest market, and it is only a question of finance, they can have them by united efforts in supporting a concern to be operated for their protection.

We believe they will do it.

PROSPECTUS.

The Independent Packing Company was organized under the laws of Arizona, in September, 1903.

Capital stock, \$5,000,000, divided into 100,000 shares, of the par value of \$50.00 each, to be fully paid and non-assessable when issued, fifty-one per cent of the stock of said company to be issued to fifteen trustees, under a "trust agreement" with the company for the benefit of the subscribers, and, under the terms of the subscriptions,

the trustees are to issue to each subscriber a "trustee's certificate" for 51 per cent of the amount of stock subscribed for when fully paid.

1. The first proposition of this company is to organize and get sufficient of its capital deposited in safe depositories, that packing plants may be erected at the best and most suitable places obtainable, with a view of returning to its stockholders the best possible results.

2. The company proposes to enter the field covered by the packing business with clean hands, untrammelled by trusts and combinations, and independent of all enterprises of like kind and nature.

3. It is our intention to purchase our products in the open markets, and sell our output to all Nations of the earth, with a view of encouraging honest competition by making quick sales and small profits.

It proposes to handle and deal in packing-house products only, leaving board of trade speculations to others. This company is convinced that if there is any business in the United States that should encourage the American business man to invest his money, it is the packing industry.

The product of almost every animal and fowl used by the people for food is handled in some way by the packing interest, and, we believe, with a handsome profit. Nearly every fowl you eat has to be dressed by a packing house; every piece of hog-meat, mutton and beef that is consumed has to come through a packing house. So, in presenting this prospectus to you we do so confident that this enterprise will make money on the investment. We do not see how any business supported by the producers and consumers, as we hope this will be, can be other than successful.

We think every producer of animal food should take stock in this enterprise in order to be in a position to know what the fruit of his labor is worth, and protect his business. This, it seems to us, is the only possible way for him to exist under the present circumstances.

And now, to the consumer of animal products: You ought to take stock in this company, if for no other reason than to create honest competition. That result alone, obtained, would mean a profit to you each day of the year. Animal products, when plentiful, would be cheaper, and the prices vary according to supply and demand.

The proposition of this company is to have the first board of directors to locate its plant at the most advantageous point possible for best results to all concerned.

The first board of directors are thirty-five in number, as their names appear, and have been carefully selected on account of their business qualifications and fitness for the place. They are all stockholders in the company, and certainly can be as successful as others have been. The company will employ, for managers, men thoroughly experienced in the packing business, competent and skilled, and possessing the highest talent.

This is no novel, untried enterprise. P. D. Armour started the packing business in 1862 a poor man. He died, a few years ago, the richest individual merchant in the world. G. F. Swift, who died recently, another packer, left an estate valued at over twelve millions. There has never been a single failure by an American packer, except where the packing-house funds were used for outside speculations. Why, then, should this company not be a success?

Address all communications for stock to C. F. Martin, Secretary, Denver, Colo., or F. W. Flato, Jr., Treasurer, St. Joseph, Mo.

Meet With the Independent Packing Company.

EDITOR KANSAS FARMER:—The present conditions at the live-stock markets of this country have made it necessary for the stockmen to organize for their own protection. With this end in view, the Independent Packing Company has been incorporated under the laws of Arizona, with a capital of \$5,000,000, and it is our intention

to build a plant for this purpose at some of the market centers.

We are asking the stockmen of this country to support this enterprise by subscribing for stock to the amount they feel they can afford. In order that this proposition may be fully explained, and the reasons given as to why stockmen should support it, we respectfully invite stockmen to meet with the officers of this company at the city hall, Fort Worth, Tex., at 10 A. M., on December 1, the day following the meeting of the executive committee of the Cattle Raisers' Association of Texas.

For this occasion the railroads have authorized a rate on convention basis from all points in Texas, tickets to be sold at stations west of Big Springs, November 29 and 30, and from Big Springs and stations east, on November 30 and December 1. Hon. John W. Springer, president of the National Live-stock Association, Denver; Hon. R. W. Hall, of Vernon, Tex., and Hon. Jerry Simpson, of Roswell, N. M., will address the meeting.

This is a matter in which all stockmen are vitally interested, and upon which the success of their business depends. We sincerely trust that many of your readers will find it convenient to be present, and that they will advise us immediately of their intention to be there. Address all letters to L. F. Wilson, Holliday, Tex.

L. F. WILSON, Vice-President.
Denver, Col.

Hog-cholera.

A certain preventive and cure for this terrible disease is advertised. It is manufactured by the Snoddy Remedy Company, Alton, Ill. Henry Wisley, a large Poland-China breeder, of Grover Hill, Ohio; Albert French, manager of the French Creamery, Lebanon, Ohio; Geo. S. Prine, president of the American Berkshire Record Association, Oskaloosa, Iowa; O. A. Wells, Ardmore, I. T.; Bible & Workman, Emporia, Kans.; and R. L. Dawson, Eolia, Mo., and hundreds of others have cured their hogs of cholera with this remedy, and recommend that every hog-raiser should improve this opportunity of saving his hogs.

Snoddy's free book on Hog-cholera fully explains how to clear a herd of every kind of hog-worm and prevent and cure hog-cholera, will be sent free by return mail for the asking to every hog-raiser who will send his name and address to the Snoddy Remedy Company, Department W, Alton, Ill.

This discovery is already saving millions of dollars for the hog-raiser and no one should be so stupid as to let this opportunity pass without getting this free information.

The Trotters and the Pacers.

Here are the records of the fast goers:

TROTTERS.	
1845 Lady Suffolk.....	2:29½
1849 Pelham.....	2:28
1853 Highland Maid.....	2:27
1853 Tacony.....	2:27
1859 Flora Temple.....	2:19¾
1867 Dexter.....	2:17¼
1873 Occident.....	2:16¾
1874 Goldsmith Maid.....	2:14
1878 Rarus.....	2:13¾
1880 St. Julien.....	2:11¼
1884 Jay Eye See.....	2:10
1885 Maud S.....	2:08¾
1891 Sunol.....	2:08¼
1892 Nancy Hanks.....	2:04
1894 Alix.....	2:03¾
1900 The Abbott.....	2:03¼
1903 Major Delmar.....	2:00
1903 Cresceus.....	1:59¾
1903 Lou Dillon.....	1:58½

PACERS.	
1839 Drover.....	2:28
1844 Unknown.....	2:23
1852 Pet.....	2:13¾
1855 Pocahontas.....	2:17¾
1869 Yankee Sam.....	2:16¾
1878 Sweetzer.....	2:15
1879 Sleepy Tom.....	2:12½
1881 Little Brown Jug.....	2:11¾
1884 Johnston.....	2:06¾
1892 Direct.....	2:05½
1892 Hal Pointer.....	2:04½
1892 Mascit.....	2:04
1893 Flying Jib.....	2:04
1894 Robert J.....	2:01½
1896 John R. Gentry.....	2:00½
1897 Star Pointer.....	1:59¾
1903 Prince Alert.....	1:57
1903 Dan Patch.....	1:56¾

Saylor's Christmas Shorthorns.

C. L. Saylor, Pauline, Kans., who makes a specialty of high-grade Shorthorns, the desirable sort for Christmas steaks and roasts, made an exhibition of one of his 2-year-old steers, which he showed first at the Topeka State Fair and won first prize, and was also a winner at the American Royal at Kansas City. Mr. Saylor now desires to sell this prize-winning steer to some one who makes a specialty of supplying Christmas beef. Readers of the Kansas Farmer will remember the illustration published two weeks ago.

Horse Owners! Use GOMBAULT'S

Caustic Balsam

A Safe, Speedy, and Positive Cure
The safest, Best BLISTER ever used. Takes the place of all liniments for mild or severe action. Removes all Bunches or Blemishes from Horses and Cattle. SUPERSEDES ALL CAUTERY OR FIRING. Impossible to produce scar or blemish. Every bottle sold is warranted to give satisfaction. Price \$1.50 per bottle. Sold by druggists, or sent by express, charges paid, with full directions for its use. Send for descriptive circulars.
THE LAWRENCE-WILLIAMS CO., Cleveland, O.



The Pedestal of Fame.

We are not great statesmen, inventors or conquering heroes, but we may lay modest claim to being benefactors to humanity. For a long term of years we have been making

KENDALL'S SPAVIN CURE

and supplying it to suffering horsemen all over the country. It has been found to be the only perfectly reliable remedy for Spavin, Ringbone, Curb, Splint and all forms of Lameness. It is undoubtedly the best known and most largely used veterinary remedy in the world. Thousands of people write us such letters as this about it.

Stands at the Head. Used 25 Years.

Worcester, Mass., Nov. 17, 1903.
Dr. B. J. Kendall Co.,
Gentlemen:—Will you kindly send me one of your books entitled "A Treatise on the Horse and his Diseases." My experience teaches me that Kendall's Spavin Cure as a liniment for man or beast stands at the head. I have used and seen it used successfully all of twenty-five years.
Very truly yours,
G. W. McHENRY.

For sale by all druggists. Price, \$1.50 per bottle. As a liniment for family use it has no equal. Ask your druggist for KENDALL'S SPAVIN CURE, also "A Treatise on the Horse," the book free, or address
DR. B. J. KENDALL CO., Enosburg Falls, Vt.

100% Farmer

It takes brain work as well as hand labor to make farming a success. Perhaps you are not getting on because you are not educated to it. Our Agricultural Correspondence courses will work out success for you in your home. Ours is

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You apply as you go along. No time lost, little expense. We are endorsed and patronized by agricultural college people. Such men as Professors W. J. Kennedy and F. G. Holden and Dr. A. T. Peters prepare our courses. Every phase of farming, stock growing and feeding covered. Students, all ages, at work always and everywhere. Write today for booklet, "The 100% Farmer."

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GRINDS EAR-CORN OR SMALL GRAIN OF ALL KINDS

With one horse, grinds from 5 to 12 bushels wheat an hour; one bushel ear-corn in three minutes with 12 revolutions of the horse.

MADE OF BEST MATERIAL
Enclosed gearing; self oiling; burrs made of bell metal, interchangeable. Every mill guaranteed; burrs replaced at small expense.

Price \$30 f. o. b. Kansas City, delivered through our agent. See him, or write us.
BRADLEY ALDERSON CO.
Kansas City, Mo.

UNLIMITED QUANTITIES **RAW FURS** wanted
For London January Sales. Opossum, Muskrat, Mink, Skunk, Raccoon and others. Highest cash prices paid. Write A. E. Burkhardt, Main & 9th, Cincinnati, O.

International Angus Sale.

The 1903 International sale of Aberdeen-Angus, to be held at Dexter Park, on Friday, December 4, promises to be fully up to the standard set by Angus breeders in these exposition sales. There are one hundred head catalogued and no contributor has been permitted to consign more than four head, thus representing the tops of the herds of some twenty-five of America's leading breeders. Entries are catalogued from every State in which high-class Angus cattle are produced, including entries from States as far north as Minnesota and Michigan and as far south as Kentucky; and from Ohio in the east to Iowa in the west. A. C. Binnie, Alta, Iowa, contributes grand imported specimens, and James Williams, Marcus, Iowa, also includes imported animals that he has secured at great cost and expense and that will unquestionably sell at prices that will prove more profitable to their purchaser than they have to their importer. It is a good opportunity to buy imported cattle and it should not be neglected. When these choice animals are selling for less in this country than they cost in Britain, breeders can make no mistake in investing in them. Cantine Bros. & Stevenson, Holstein, Iowa, who imported, bred and sold many of the best animals of the breed, sell on this occasion probably the best consignment they have sent into an auction ring. Other choice herds from Iowa that will contribute to this sale are those of W. B. Seeley, Mt. Pleasant; M. A. Martin, Wall Lake; and W. J. Miller, Metz. H. C. Allen & Son, Georgetown, are the only contributors from the Blue-grass State, Kentucky. They have the honor of having sold more high-priced females at these international sales than has any other breeder and their consignment this year shows that they are determined to keep up their record. From South Charleston, Ohio, the home of Gay Lad, there are two consignments, one from the herd of Thomas Mattinson, Jr., the owner of this celebrated bull, and the other from the herd of C. B. Pugsley & Bro., whose herd is also strong in the blood of Gay Lad. Dr. H. L. Brom, Hillsboro, Ohio, has consigned of his best show cattle, animals that have proved both profitable and prolific breeders and show-yard winners. Jas. H. Hall, Port Austin, Mich., will present animals that as usual will pay from 50 to 100 per cent annually on the amount that they will bring in this sale. Collins Dysart, Nachusa, Ill., who bred the undefeated champion cow, Vala, consigns animals that are strong in the blood of this famous cow. Other Illinois consignments are T. F. Rothwell, Mt. Pulaski; F. L. Brumback, Cissna Park; S. Melvin, Greenfield; Clifford Haws, Magnolia; Judge John S. Goodwin, Chicago; T. J. Vidler, Pana; and University of Illinois, Champaign. T. E. Bolley, Disco, Ind., has the sole consignment from the Hoosier State and R. E. Crane, Grand Meadow, Minn., will send into the sale-ring animals that do great credit to their breeder and to the State from which they come. Marion C. Stone, Milan, Mo., who has produced many thick-fleshed, shapely animals will sell of his very best productions at this time. The entire offering consists of seventy-five cows and twenty-five bulls. They represent every fashionable prize-winning strain of the breed, and whatever may be the desires and wishes of a buyer of Angus cattle, he will find in this great sale something to fill his wants. It is a representative offering of the breed that has sold for the highest price for fourteen consecutive years in the great cattle markets of America, and it is an offering worthy to be exposed at the great International Exposition where will be assembled the most meritorious and famous animals the beef breed have produced. For catalogue apply to W. C. McGavock, Springfield, Ill.

Galloways at the International.

Under the management of the American Galloway Breeders' Association a public sale of high-class imported and American-bred Galloways will be held at the International Live-stock Exposition, Chicago, on Wednesday, December 2.

This sale will be one of the features of the big live-stock show as it will include large numbers of the show animals and consignments from all the noted herds of the country. The sale will embrace only carefully selected cattle and will be remarkable as being the largest ever held by this association at which so many animals of merit and show-record were offered.

The Galloways were the latest breed of cattle to be introduced and none have made such gigantic strides into popular favor as these Scotch cattle. Breeders of Galloways feel much elated owing to the fact that their favorite type has for a second time won the grand championship over all breeds as range-bred cattle at one of America's National shows.

The splendid show-record made during the past season leads many of the admirers of this strain to believe that breeders should find an incentive to increase their herds both in numbers and in quality and this sale will offer a fine opportunity.

The following are contributors to the lot which will be sold during the live-stock show: Brookside Farm, Ft. Wayne, Ind.; Marlon Parr, Harritown, Ill.; G. W. Lindsey, Red Cloud, Neb.; N. P. Clarke, St. Cloud, Minn.; C. D. McPherson, Fairfield, Iowa; Otto H. Swigart, Champaign, Ill.; James Frantz, Bluffton, Ohio; W. D. Brown, Wheeler, Wis.; Albert Nergard, and Lars Anderson, Westbrook, Minn.

The sale will begin promptly at 10 o'clock. Catalogues of the sale may be secured from R. W. Park, Secretary, 17 Exchange Avenue, Union Stock Yards, Chicago.

International Shorthorn Sale.

For more than a century Shorthorns have been very popular with those who produce beef cattle, and this popularity has been fully attested by prices that stand as the record for all breeds. The general average of the public sales for the last two years has been higher for Shorthorns than for any beef breed, and at the Hamline (Minn.) sale and the American Royal sale of 1903 the average was from \$25 to \$90 per head greater than for competitors. This is conclusive evidence that Shorthorns are money-makers. An opportunity will be afforded

visitors at the International to buy some grand representatives of this excellent breed.

Among many choice prize-winning cows that come from some of the best herds in America and represent the blood of the most illustrious sires of the breed are eleven imported cows of elegant breeding and very great merit.

To those in need of choice herd-bulls this sale will be a rare opportunity. At no sale in recent times have so many bulls been offered with such recognized merit, faultless breeding and well-established records both in the show-ring and as sires. Among these can be mentioned Nonpareil of Clover Blossom, with a wonderful show-yard record; College Farewell 192476, a son of Scotland's Crown 149652, at the head of Iowa College herd; Royal 177807, a son of Mary Hampton; Royal Amaranth 171377, that has done excellent service in the herd of Joseph M. Hall; Master Archer 145090, a worthy son of Best of Archers, and full brother to Ceremonious Archer, champion 2-year-old; Pride of the Clans 187463, first-prize 2-year-old at the Ohio State Fair; Fancy's Choice 201058, third prize-winner at Hamline in 1903, got by the famous Marquis of Zenda; Mutineer 172547, got by Bapton Chief 172541; Golden Sympathy 151656, a roan 3-year-old of much quality; Von March 159758, a large, sappy grandson of Imp. Spartan Hero; Royal Hero 206108, Wimples Prince 183112, Belmont 183611, Nonpareil Comet 207473, a worthy son of Nonpareil Victor; Imp. Cyprus 2d 191756, and others of great merit. Sale mentioned elsewhere in this issue.

Sale will begin at 10 a. m. Tuesday, December 1. For catalogue write American Shorthorn Breeders' Association, Union Stock Yards, Chicago, Ill.

Washington County Poland-China Sale.

On November 10 and 11, pure-bred Poland-China pigs were sold in Washington County, Kansas, to the amount of \$1,109. The offering consisted mainly of pigs of spring farrow. On November 10, D. A. Kramer, Washington, sold thirty-three head for \$613.50, general average of \$18.60. Twenty-one gilts averaged \$18.22 and twelve males averaged \$19.30.

The purchasers of males were: W. A. Tilton, Lanhann, Neb.; John Soder, Hanover, Kan.; O. P. Lowe, Henry Boston, Geo. W. Cornell, J. V. Beason, and J. S. Merkey, all of Washington; J. O. McCrone, Haddam; and W. W. Goldsberry, Beattie.

The bupers of the gilts were: Geo. Fuller, Morrowville; C. W. Miller, Mahaska; L. P. Fuller, Morrowville; W. E. Stewart, R. C. Wille, John Bradshaw, N. B. Walker, David Cook, and A. E. Driskell, all of Washington.

On November 11, David Cook, of Washington, sold thirty-one pigs for \$496, an average of \$16. Seven males averaged \$12.22 and twenty-four gilts \$19.40.

The purchasers of males were: John Parker, Greenleaf; S. D. Hustead, Linn; Jos. Nonmoe, Hanover; D. Taylor, Frank Koss, and S. W. Mercer, Greenleaf; A. J. Pinkley, Washington.

The buyers of gilts were: Frank Stoll, Greenleaf; W. W. Goldsberry, Beattie; L. R. Wilfong, Greenleaf; Geo. Fuller, Morrowville; W. B. Starr, Ziller, Neb.; A. J. Monroe, Fairbury, Neb.; L. P. Fuller, Morrowville; D. M. Boyer, Linn; A. E. Driskell, J. I. Fishell, John Bradshaw, J. J. Mundis, John Vankirk, John Mundis, and D. A. Kramer, Washington.

Notes from Phillips County.

Chas. Morrison, proprietor of the Phillips County Herd, Phillipsburg, Kans., send the following interesting notes from his county:

"We have just finished hauling in our fourth crop of alfalfa. This crop we will feed to the hogs through the winter, giving them what they will clean up every day at noon; this keeps them in fine condition. My hogs have alfalfa the year round in this way, in fact it is half their living. Hogs kept in this way are more healthy and vigorous and are not burnt out with corn. I have been breeding Poland-Chinas here on this farm for twenty-two years and have never had any disease. All my early boar pigs are sold; and have some very fine June boars that are large boned, lengthy, square, and straight; good enough to ship in any herd; also some very neat gilts that I am breeding to my three herd-boars. These are for sale at let-live prices. The Red Polls are in the pink of condition and sales have been good this last month. H. D. Clayton, of Edmond, was here and found a young bull that suited him; also a very fine young Poland-China gilt. No trouble to sell Red Polls when parties see them. They are the cattle for the general farmer. They come nearer filling his wants than any other breed. Would be pleased to have parties wishing to buy visit my herd. Everybody welcome whether they buy or not."

Purdy Bros.' Sale of Shorthorns.

On Thursday, November 12, Purdy Bros., Harris, Mo., made their third annual sale of Shorthorns from Fairview Herd. The sale was well attended and it was, everything considered, a lively and successful sale, although prices were hardly up to the expectations of the owners. But forty-five cows, bulls, and heifers sold for \$7010, an average of \$155.77. The top price of the sale was \$415 for Sultan, of Oakwood, sired by Gallahad and bred by Senator Harris of Kansas, which went to H. C. Duncan, of Osborn, Mo. The twelve bulls averaged \$108 and thirty-three females averaged \$173.18.

The list of other purchasers were: J. A. Rutten, Sowell, Iowa; David Joy, Blakesburg, Iowa; Bert Campbell, Trenton, Mo.; John Overton, Trenton, Mo.; Otto Gelbaugh, Trenton, Mo.; C. W. Thomas, Harris, Mo.; Warren Harris, Trenton, Mo.; A. H. Robinson, Clark, Mo.; Mrs. Jones Findlay, Daum, Mo.; H. K. Smart, Pollock, Mo.; Fred Case, Olathe, Kans.; Scott J. Miller, Chillicothe, Mo.; O. A. Rogers, Cowgill, Mo.; T. W. Harris, Cowgill, Mo.; Henry Stunkle, Peck, Kans.; W. N. Minter, Mill Grove, Mo.; John Wirt, Humphreys, Mo.; J. R. Morris, Chillicothe, Mo.; S. A. Henderson, Harris, Mo.; R. W. Crumpacker, Unionville, Mo.; I. O. Pile, Harris, Mo.; W. W. Stack, Newtown, Mo.

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THE J. R. WATKINS MEDICAL CO., 28 Liberty St., Winona, Minn.

Sutton, Neb., March 25, 1902.
Your agent left me one bottle of Watkins' Cough Cure and I used it for cough and I can say it is the best I have ever tried. All of Watkins' Remedies are good.
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CONDUCTED BY RUTH COWGILL.

WORK FOR SMALL MEN.

Don't hate your neighbor if his creed
With you own doctrine fails to fit;
The chances that you both are wrong,
You know, are well-nigh infinite.
Don't fancy, mid a million worlds
That all the silent dome of night,
The gleams of all pure truth converge
Within the focus of your sight;
For this, my friend, is not the work for
you;

So leave all this for smaller men to do.

Don't hate men when their hands are
hard,
And patches make their garments whole;
A man whose clothes are spick and span
May wear big patches on his soul.
Don't hate a man because his coat
Does not conform to fashion's art;
A man may wear a full dress-suit,
And have a ragamuffin heart.
This, my good friend, is not the work for
you;

So leave all this for smaller men to do.

Hate not the men of narrow scope,
Of senses dull, whose brows recede,
Whose hearts are embryos; for you
spring.

My dainty friend, from just this breed.
Be sure the years will lift them up;
They'll toll beneath the patient sky,
And through the vista of long days
Will all come forward by and by.
Hate not these men; this is no work for
you;

So leave all this for smaller men to do.

Despise not any man that lives,
Alien or neighbor, near or far;
Go out beneath the scornful stars,
And see how very small you are.
The world is large, and space is high
That sweeps around our little ken;
But there's no space or time to spare,
In which to hate our fellow-men.
And this, my friend, is not the work for
you;

Then leave all this for smaller men to do.
—Sam Walter Foss, in "Whiffs from Wild
Meadows."

Bonny Prince—The Autobiography of
a Collie Dog.

MARION SEWELL.

CHAPTER I—FIRST IMPRESSIONS.

The first thing I remember in this world is the box in which I passed my early days. It was about six feet long, I think, and nearly as wide, and the bottom was covered with coarse, prickly straw. I have often thought since that I could have begun life under more favorable circumstances, but taking all in all, I have seen enough happiness in my life to make amends for any amount of discomfort in the opening scenes.

I could not have been more than five weeks old when I began taking an interest in the things about me; not a very great interest, to be sure, but sufficient to keep time from hanging too heavily upon my paws. The straw before mentioned, tickled my nose considerably, but I did not let it distress me very much, for, being unused to the ways of the world, I supposed that every one was more or less tickled from different reasons.

There was a wide crack in the side of the box which allowed whiffs of cold air to sail over my head, and whenever they came in direct contact with my face I never failed to sneeze; and then as I buried my nose in the straw I nearly always sneezed a second time. However, I soon grew accustomed to the weather, and the long, wide crack was to me a source of much amusement, because by means of it I could see and be seen.

I sometimes smile and wag my tail when I think of how little I knew at first and how much knowledge I have gained in the course of my long life. As I looked out into the world I saw what I then considered strange and fearful things, but in due time I learned to distinguish one from another, and to understand how gentle and useful they all were, each in its particular way.

Many times a day a pan of warm milk appeared in one corner of my little home (which, by the way, I shared with five frolicsome brothers and sisters), and while it was being lapped by half a dozen eager tongues, I heard voices outside, and from them I learned that I was a Collie pup with a coat of so dark a brown that it was commonly spoken of as black.

My little brothers and sisters were just common yellow puppies, good-natured and playful to a fault. Sometimes they amused me with their frolicsome ways, for they were always tumbling over each other, and they often looked

ridiculous enough as they bounded and rolled from one side of the box to the other. Of course, after a little while I grew tired of watching them in their aimless delight, and would turn my eyes to the outer world where I was sure to find something more worthy of my attention.

One rather cold day when I was about seven weeks old, I sat huddled in one corner of the box at the very end of the crack of which I was so proud, and watched with interest a lot of white flakes sifting down from somewhere above my head. They came slower and slower and at last I could no longer see them at all. I wondered where they had gone to, and as I strained my eyes hoping to solve the mystery, my head bumped against something soft and silky, and before I had time to assert my dignity, I was struggling on my back, quite unable to move because one of those pale brown puppies had sunk his teeth into my throat. After some time I managed to rise to my feet, and was surprised to find that I was not in the least hurt, only breathless and more angry than I now like to confess.

None appeared to notice my distress, for the whole five were wrestling playfully in the straw, but I recognized the impudent little fellow that had just attacked me, and taking a long breath I prepared to give him his first lesson in good manners. Then suddenly the lid of our box opened wide, and my eyes were blinded by a flood of light.

CHAPTER II—MY NEW HOME.

Two men stood over our box looking down at us. One was fat and rosy-faced, and wore a long cloak wrapped closely about him. The other I recognized as our master. He was an old man with gray beard and he appeared anxious for us to be admired. They were both laughing and the strange man was saying, "Fine little dogs, every one of them, but if you don't mind I'll take this one, for the boy said he wanted a black puppy that had a white collar." As he said this he touched me lightly with his riding whip, and my master seemed greatly pleased with the selection.

"I'll go and get a basket to put him in," he called back as he went trotting off in the direction of the house. The strange man took me out of the box and stroked my hair, telling me that I was very handsome, and asked me if I was worth \$50. I was quite eager to let him know that I was very cheap at that figure, but being unable to talk I merely grunted my satisfaction. After a time, which seemed to me rather long, the old man returned, bringing with him a round basket lined with cotton. I was put into this and the lid was partly closed over me, so that I could not get out. At the same time I had a chance to enjoy the fresh air. When this was done, the man who now owned me handed the old gentleman a green piece of paper and said, "There you are." I thought perhaps he would get angry at being called a green piece of paper but he only smiled, and rubbing his hands together remarked, "Fifty dollars is a large sum to pay for such a scrap of a dog, but you'll see in time that he will be worth more than a hundred dollars to you."

My new master picked up the basket, enabling me to see my little brothers and sisters for the last time, as they crowded together in a corner of the big box, whimpering to themselves because they were receiving so small an amount of attention. Presently my new friend started off, humming a low tune, and swaying me gently backward and forward as he walked.

I soon fell asleep in my comfortable abode and did not awaken until there was a bumping and a jostling and a noise of whistles and bells and loud voices and we came again into the chill air. I know now, what I did not know then, that I had just been having my first ride in a train. I heard several people speak to "Mr. Frer" and each asked him what he had in the basket. To all he replied that he had "fifty dollars worth of dog flesh." Some were not satisfied with this answer and came to inspect the

prize. The ladies all pronounced me "cunning" and "lovely," but the men were much less refined and pretended not to see my beauty. They even went so far as to tell Mr. French that another "trade like that" would break him up. I was glad to see, however, that he paid no attention to their disrespectful remarks, only seeming to be greatly amused. After he parted from a last group of friends he started down a sidewalk humming, and swaying me backward and forward as before. I would have again fallen asleep had not a clear young voice broken in upon my musings, "Did you get him, papa? Did you get the black puppy with a white collar?"

"Yes, Howard, my boy," Mr. French called back, "and here he is. I am sure you will be delighted." As he spoke he threw the lid from off the basket and before I could collect my thoughts, I was thrust into the eager hands of the nicest, merriest little boy that it has ever been my lot to meet. He was about nine years old and had plenty of brown curly hair and a pair of brown eyes that actually sparkled with delight. He laughed and laughed as he looked at me and I noticed how white and even were his teeth. I decided the moment I saw him that he was a very good-humored boy and that I would have a fine master in the person of little Howard French.

He carried me up the row of stone steps and into the beautiful and richly furnished house where I made the acquaintance of Howard's mama, his Aunt Lucy, and a number of servants. They all praised and petted me until I felt very proud and quite above the common run of dogs.

Aunt Lucy (for such I intend to call her), who was a lovely, golden-haired young lady, remembered that I must be hungry after my long journey, and set to work at once to warm some sweet milk which she placed before me in a cunning wooden dish. While I lapped it up, timidly at first but more boldly later on, Mrs. French asked what name should be given me. Some one suggested "Nero" at once, but Howard put it aside as unsuitable, for he thought me far too small for such a big-sounding name. His mama said that I would probably grow quite large; still my young master held out for a cute, baby name, and they were at the point of despair when Aunt Lucy came to the rescue by saying that she thought "Bonny Prince" would do very nicely. At the mention of a double name for me, Howard clapped his hands delightedly. "That is just the thing," he cried. "Bonny means pretty, and will suit while he's little and then Prince is great and noble and just the name for him when he is a great big doggie."

"Yes, but you must call him Prince now," said Aunt Lucy mischievously, "or he won't know whom you mean when he is grown up."

"I will always call him Bonny Prince," returned Howard, as he dropped on his knees beside me, upsetting my milk in the violence of his affection.

(To be continued.)

What Do You See?

A German allegory tells of two little girls. They had been playing together in a strange garden, and soon one ran to her mother, full of disappointment.

"The garden's a sad place, mother."

"Why, my child?" asked her mother.

"I've been all around, and every rose-tree has cruel thorns upon it."

Then the second child came in, breathless.

"O, mother, the garden's a beautiful place!"

"How so, my child?"

"Why, I've been all around, and every thorn-bush has lovely roses growing on it!"

And the mother wondered at the difference in the two children.—Zion's Outlook.

The trouble with a great many men is, they don't appreciate their predicament until they get into the quicksand.

A "sit-down" method won't do a minute in this age of aggressiveness.

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and ask us to mail you our new illustrated stove catalogue, and we will forward postpaid our complete catalogue of stoves and ranges, which illustrates and describes everything in the stove line for cooking and heating worthy of your consideration—all at prices decidedly low. We sell only the best grades, avoiding the very cheapest. If you want an honestly made stove you cannot afford to place your order until you have seen our stove catalogue. A postal card will bring it.

\$4.00 is our price for a good stove with a 9 1/2 inch firepot. It is a much better stove than some firms sell at a higher price, but if you want the best send for our stove catalogue and read about our famous Home Oak stoves. The illustration shows our well known Home Oak stove; a very powerful heater made of No. 18 gauge cold rolled steel and finished with artistic nickel plated trimmings. It is 43 inches high, 9 1/2 inches round and weighs 63 pounds. \$4.50 buys larger size weighing 75 lbs.

\$5.87 is the price of the most popular size of the Home Oak stove. 48 inches high, 13 1/2 inches round, 13 1/2 inch firepot, weight 108 pounds. The Home Oak stoves are the best, not the cheapest, and are fully guaranteed.

\$1.14 Air-tight heater made better than others on the market and cheapest at our price. We do not sell the cheapest that we can make. This air-tight heater at \$1.14 is a better bargain than others at 95 cents up. It pays to buy the best.

\$2.88 for an honestly made kerosene oil heater. Other styles, \$3.35, \$3.68, \$4.80, \$7.00 and \$7.35.

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Arkansas Valley Apiaries,
Cheek & Wallinger, Las Animas, Colo

For the Little Ones

THE BROWNIE.

When my mother lights the candles and puts on the things for tea, Then it is I see the brownie coming out to play with me.

There he sits upon the fender, and he blows the fire bright, But my mother never sees him, though I show her every night.

When they put me into bed, last thing that I ever see Is the brownie on the bed-post, always smiling down at me.

—Carolyn S. Bailey.

Peter.

Dorothy lived with her grandparents on a little farm among the mountains. She loved animals, and was never without a pet of some kind.

One day as Dorothy's grandfather was taking the cows to pasture, he noticed three little creatures playing near a large rock. He thought they were young foxes, and he started to catch one; but before he could reach the place two of the little fellows had tumbled into their hole. The other was about half in when Dorothy's grandfather grabbed him.

It was not a fox, but a baby woodchuck—a queer, fuzzy little ball of fur with beady black eyes, stumpy tail, and big, yellow teeth.

The baby woodchuck bit, and scratched, and struggled to get away. But at last he was tied in a handkerchief, and then he was carried to Dorothy.

Dorothy was delighted with this new and strange pet; and though her grandfather said woodchucks rarely became tame, she was sure this one would. She named him Peter, and then took down her old squirrel cage, and lined it with soft hay and placed him in it, with some fresh-cut clover and a little dish of water.

For a few days Peter was very wild. He insisted on spilling his water, and he would snap and bite whenever his little mistress replaced it. But by and by he saw that Dorothy did not mean to hurt him. Then he gave up biting. In two weeks he would drink from his dish without upsetting it, and would nibble clover from Dorothy's hand and let her scratch his funny little head.

In a month Peter had grown to twice his former size, and had become so tame that he would let Dorothy take him in her arms and carry him about.

One day little Dorothy forgot to fasten the cage door, and Peter walked out. But he did not go far, and went back to his cage of his own accord. The door was never fastened again, and all day long Peter would play about the veranda or nibble grass in front of the house. He always returned to his wire house for the night. By this time he had learned to answer to his name. He would run to Dorothy whenever she called him.

One day Dorothy's grandmother was baking cookies, and she gave one to Peter. It was funny to see the little woodchuck taste it, then taste again, as if he were not quite able to make up his mind whether he liked it or not. Finally he decided he did like it and he ate it all. From this time cookies were his favorite food. As soon as Dorothy's grandmother began to bake he would run to the kitchen, and sit on his haunches in the doorway, and wait patiently until his cookie was given him; then he would scamper off to one of his grassy nooks and eat it at his leisure. He would hold it in his forepaws and nibble here and there in the very cunningest way until it was all gone.

Several times during the summer Peter wandered off to the woods and spent the day. At last one cool October day Peter went off and did not return.

Dorothy was afraid some one had killed him. All winter long she mourned for Peter.

One fine morning in April as Dorothy was walking down the road with her grandfather they espied a big red woodchuck sitting on a stump in a field.

"Oh, grandpa!" cried Dorothy, "and

that woodchuck! Doesn't he look just like my dear old Peter?"

"Perhaps it is Peter," said her grandfather. "Call him and see."

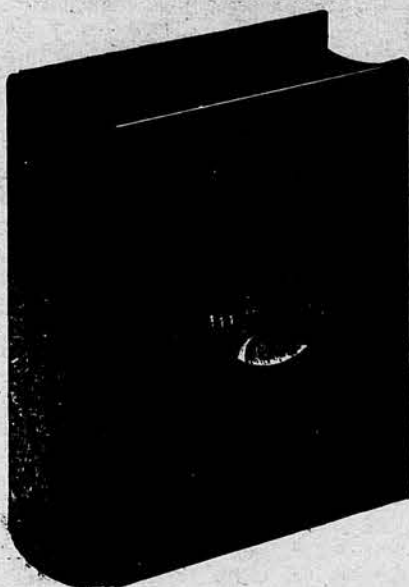
Stepping to the side of the road, Dorothy waved her hand and called, "Peter, Peter! Come here, Peter!"

And what do you think happened? Why, the big red woodchuck first looked at Dorothy for a minute, with his head on one side, and then came running across the field—and it was her dear old Peter safe and sound, coming back to her after his long winter sleep.

Dorothy took the great red fellow in her arms and hugged and kissed him. Peter seemed to share her delight. He rubbed his nose against her cheek and grumbled down his throat as woodchucks do when they are pleased.

Of course Dorothy carried Peter home and fed and petted him, to make up for the time he had been away. That afternoon Dorothy's grandma got out her baking tins and rolling pin. And the moment Peter heard the sound, he started up and ran for the kitchen door, and took his old place again, to wait for his cookie. So you see that during his long winter sleep he had not forgotten about the cookies.—A. Hyatt Verrill, in Little Folks.

Our Cook Book Offer.



The White House Cook Book, 590 pages, comprehensive treatise on carving. All kinds of cooking and baking. Everything from soup to nuts. Cooking for the sick. Health suggestions. Kitchen utensils. Family recipes. Toilet items. Dyeing and coloring. Measures and weights, etc. Prepared by the former chef of the Hotel Splendide, Paris. Regular price, \$2. Our price with the Kansas Farmer for one year, \$2. The two for the price of one, delivered to you.

Address, Kansas Farmer Company, Topeka, Kans.

World's Fair Station.

In view of the fact that many thousands of people will travel to St. Louis over the Wabash Railroad, it is interesting to remark the facilities provided by this road. The Wabash has definitely determined upon the plans for a large station and terminal at the approach of the exposition. The Wabash road will build a station with 300 feet of frontage on a grand entrance plaza, 400 by 700 feet, which the exposition will maintain at the main gateway at Lindell and De Baliviere Avenues. The plaza will be cut off the end of the Catlin tract, on which The Pike is to be located. A subway 200 feet wide will carry street-car passengers under the main tracks of the Wabash where they cross De Baliviere Avenue at Forsyth Junction. The tracks will be elevated at this point. At no point near the main gateway of the World's Fair will different kinds of traffic cross on the same level. Fifteen spur tracks will leave the Wabash main line 1,500 feet east of De Baliviere Avenue, and, entering the eastern portion of the Catlin tract at that point, will run directly into the station by the interlocking system. Provision has been made in the trackage plans to assure the unloading or loading of at least 50,000 passengers every day. Excursion trains will enter and leave the terminal spurs on the same track. The Wabash main line will carry four tracks for the entire distance along the north front of the exposition. Through trains will stop at platforms along the main tracks on the north side of the leased tract, and in the immediate proximity to the World's Fair station.—Buffalo Courier, July 27, 1903.

Special Land Buyers' Excursions

Will run to the new lands of Greer County, Oklahoma, and other sections of the great Southwest in November and December, via the Frisco System.

Are you looking for rich and fertile farming lands in the Southwest which you can buy for from one-fourth to one-tenth the cost of lands of the East and North? They produce as much acre for acre. Here is a chance to better your condition and add a liberal amount to your pocketbook.

For full particulars and special railroad rates apply at once to R. S. Lemon, Secretary Frisco System Immigration Bureau, St. Louis, Mo.

A LATE DISCOVERY.

Dr. MacFarland's Germicide

Machine Patented June 30, 1903

The only Scientific Method for the Treating and Curing of

CATARRH, HAY FEVER, ASHTMA

It is the Wonder of the Twentieth Century.

This machine, and chemicals used in operating it, is the discovery of Dr. F. MacFarland. Dr. MacFarland has been in the active practice of medicine for the past 35 years, and for a number of years owned and operated a large Sanitarium in Kansas. We do not ask you to buy, only write us and investigate our methods and principle of curing these dreaded diseases. After so doing you will then see why this great and new discovery is receiving so many press notices in the leading papers of the country, and you will be readily convinced of its remarkable curative properties, and if you are a sufferer and your family physician has not been able to cure you, we know you will purchase one of our machines and be cured, the same as hundreds have been in and around Topeka.

Over 100 of these machines are in use in Topeka alone, and the results have been most wonderful. Mr. H. A. Heath, editor of this paper, has used this Germicide in his family and pronounces it the most successful treatment he has ever used. We have the endorsements, and all we ask, if you are troubled with any of the above diseases, is for you to write us at once for circulars.

To introduce this treatment, we are selling our \$10.00 machine and chemicals for \$5.00, express prepaid, for a short time only.

The MacFarland Chemical Co.,

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We are interested in building up the country traversed by the Santa Fe. It will be to our mutual advantage if you locate on our line. Can we not assist you? We have illustrated descriptive literature which will gladly be sent. We have also a list of reliable land agents to whom we can refer you, if you wish.

If you think of making an investment in a ranch or farm, write to Address No. 1. If you wish to establish a manufacturing plant, or engage in any industry, write to Address No. 2.

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No. 2.

WESLEY MERRITT,
Ind. Comr., A. T. & S. F. Ry.
Chicago.

The Home Circle.

CONDUCTED BY RUTH COWGILL.

UNCLE HIRAM ON CITY LIFE.

Yes, it's lively in the city, where they've got their 'lectric lights, And the people soon have wrinkles from their stayin' out o' nights; They've got shows and things to keep 'em from a-gittin' lonesome there, And they look all-fired stylish in the costly clo's they wear, But I guess they have their troubles just the same as me and you, And I reckon that they're often rather worse'n ours, too.

We've got wood piled in the woodshed that'll last a year or so, And there's more out where that come from and more saplin's still to grow; We ain't worried over coal strikes, let the cold winds blow away; We can carry in the billets and not have a cent to pay; While they're shiverin' up yonder where they've got so much to see We can heat up fer the babies that the Lord sent you and me.

There is always somethin' doin' to make city people sad; If it ain't a sausage famine, why you'll hear the water's bad; When the strikers stop the street cars then the dickens is to pay And the people have to foot it, gittin' clubbed along the way, And the fever epidemics and the small-pox every year Keep the city people stewin', and I'm glad to live out here.

Oh, it's quiet in the country and there's few uncommon sights, And God's moon and stars up yonder have to do fer 'lectric lights, But with 'taters in the cellar and with wood piled in the shed, When there's hay stacked in the hay-mows for the stock that must be fed, They can have their noisy city, with the sights up there to see, And the kind old quiet country will be good enough for me.

—S. E. Kiser, in Chicago Record-Herald.

For the Thanksgiving Dinner.

Pumpkin Fanchonettes.—Mix $1\frac{1}{2}$ cups of stewed pumpkin very dry, with 2 cups of milk, 1 beaten egg, a large half-cup of brown sugar, 1 teaspoon of cinnamon, $\frac{1}{2}$ teaspoon each of salt and ginger. Line individual tins with pastry and bake in a slow oven until brown on top.

Cranberry Sauce.—Stew 1 quart of cranberries in 1 pint of water until the skins burst, then add 1 pint of granulated sugar, and simmer for twenty minutes longer. This may be molded like jelly. The addition of another small cup of water will make a delicious sauce for luncheon or tea.

A rich jellied cranberry sauce makes a handsome and delicious receptacle for chicken and celery salad. Mold in a plain border mold, or by setting a

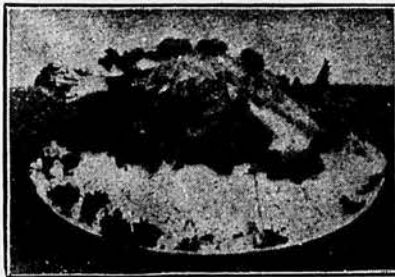
smaller bowl inside of a plain mold of the size desired. Nearly fill the smaller mold or bowl with cold water, and pour the cranberry cauce between the two. Turn out carefully just before it is to be served, and fill the center with chicken salad.

Cranberry Frappe.—Boil 1 quart of cranberries in 1 pint of water for five or six minutes. Strain through a course cheesecloth, add 1 pint of sugar, and stir and boil until the sugar is dissolved. When cold, add the strained juice of 2 lemons. Freeze to a mush, using equal parts of ice and salt. Serve in glass cups either with or just after roast turkey. Place the cups upon a fancy plate covered with a dolly.

Cranberry Olives.—Spread slices of roast turkey, chicken, or veal with rich cranberry sauce, sprinkle with grated bread crumbs, a little minced celery, and some little bits of butter, season delicately, roll up, and fasten with tiny skewers, or tie. Dip in melted butter, roll in seasoned crumbs, and brown lightly in a quick oven.

Turkey Dressing with Sausage.—Cut the crust from a loaf of bread, dip lightly in cold water and crumble with the hands. Stir in 2 tablespoons of melted butter, half a pound of sausage meat, 3 sour apples, pared and cut in dice, salt and pepper to taste (these two ingredients must be added very carefully, as the sausage has already been seasoned), and a tablespoon of finely chopped parsley. A pinch of sage must be added, if the sausage meat lacks it.

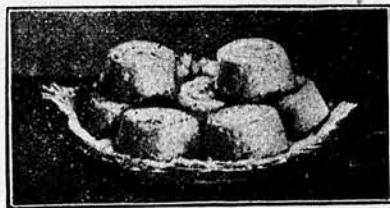
Roast Turkey With Riced Potatoes.—Stuff the bird with dressing made of 1 quart stale bread crumbs, 1 small onion minced, half cup minced celery, 6 crushed crackers, half pound melted butter, 1 tablespoonful each of salt



and minced parsley, 1 teaspoonful pepper, 12 chopped oysters, $\frac{1}{2}$ cup boiling water; mix well; wreathed with mashed and seasoned potatoes pressed through a colander; set into oven a second so as to reneat the riced potatoes.

Raised Doughnuts.—Mix together thoroughly 3 cupfuls of bread dough ready for shaping into loaves, a quarter of a cupful of butter, 2 eggs, 1 cupful of sugar, and cinnamon or nutmeg as desired. Let rise until doubled in bulk, then roll into a thin sheet and cut into rings. Let stand until doubled in bulk, then fry in deep fat.

Chocolate Cakes, Marshmallow Frosting.—Cream half a cupful of butter; add a quarter of a cupful of cocoa, the beaten yolks of 3 eggs, 1 cupful of sugar, 1 teaspoonful of cinnamon,



and half a cupful of water, then the beaten whites of 3 eggs and a cupful and a quarter of flour, with 3 teaspoonfuls of baking powder. Decorate with boiled frosting, to which dissolved marshmallows are added.

Mincemeat.—(Repeated from Good Housekeeping, November, 1902.) Ingredients—Three pounds lean beef (from prime round, steamed till tender), $1\frac{1}{2}$ pounds of suet, 6 pounds of greening apples, 2 lemons and 2 oranges (grated peel and juice), $1\frac{1}{2}$ pounds of brown sugar, 2 pints New Orleans molasses, 2 pints hard cider (boiled), 3 nutmegs (grated), 2 table-spoons of salt, 1 teaspoon of mace, 2 teaspoons each of ginger, allspice, cloves, cinnamon, 1 pound citron, 2 pounds seedless raisins, 2 pounds

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Women who insist on doing housework in the old, old way are wasting their energy. To such women

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is a boon. It does all the household cleaning, washing and brightening quicker and more economically than any other way yet devised. Try it and you'll not deny it.

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Scrubbing floors, washing clothes and dishes, cleaning wood-work, oilcloth, silverware and tinware, polishing brass work, cleansing bath room, pipes, etc., and making the finest soft soap.

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GOLD DUST makes hard water soft

large raisins, seeded, 2 pounds currants, a glass of grape jelly. Chop the meat into pieces the size of French peas and chop the suet as fine as possible. The apples should be chopped into pieces as large as navy beans, the raisins left whole and the citron in thin slices as large as half a silver quarter. Use real New Orleans molasses, and finally, if the mincemeat is too thick, thin with cider.

Filling for Pumpkin Pie.—Mix 1 cupful each of milk and dry, steamed and sifted pumpkin, half a cupful of sugar, 2 tablespoonfuls each of molasses and melted butter, 1 tablespoonful of ginger, 2 eggs slightly beaten, 1 teaspoonful of cinnamon, and half a teaspoonful of salt. Pour into a pastry-lined plate and bake in a moderate oven for forty-five minutes. When cold, slip from this plate to a decorated one.

Thanksgiving Pudding.—One and one-half cupfuls finely powdered cracker crumbs, $2\frac{1}{2}$ pints of fresh new milk, 1 heaping cupful of sugar, $\frac{1}{2}$ cupful of molasses, 1 teaspoonful of mixed spices, 1 tablespoonful of butter, $\frac{1}{2}$ teaspoonful of salt, 1 pound of best raisins and a half dozen of eggs. Stone the raisins, heat the milk to the boiling point, and pour it on the powdered crackers. Butter-crackers are better than any other kind and should be used in preference to all others. Add the butter to the crackers and milk and set the mixture to cool. When it is cool, add the eggs well beaten, and the other ingredients; butter a deep pudding-dish, pour in the mixture and bake in a moderate oven for about four hours, stirring several times during the first hours to keep the raisins from settling to the bottom of the pudding, and to distribute them evenly through. The oven must be of a moderate heat.

Sause.—One-half cup of butter, $\frac{1}{2}$ cupful powdered sugar, 2 tablespoonfuls of cream and 2 of wine.

"Let's Play."

An article of great importance, and one which already has called forth no small amount of comment and discussion, both here and abroad, is Dr. Woods Hutchinson's monograph reprinted in Current Literature from the Contemporary Review. Dr. Hutchinson holds that play, so far from being a mere reaction, is really an educational factor in child life.

"It is educational in the highest sense of the word," says Dr. Hutchin-

son. "The joy of the child's heart is to mimic the pursuits of its parents and ancestors. Formal education is but a feeble imitation, often a counterfeit, of Nature's great School of Play. When the child plays it is not merely relaxing itself, getting an appetite, getting health, it is literally building and organizing its body, nay its brain and mind. A quaint old story used to run that bear cubs were born shapeless lumps, and licked into shape by the mother bear. Children are born little amorphous bundles of possibilities and played into shape. The reason why we educators—even Froebel—have never recognized play at its full value is that the child's imitations begin with pursuits of its ancestors. The child of to-day is not born in the twentieth century, but in the Glacial Epoch, on the edge of the receding ice sheet. It is born not an Anglo-Saxon, but a Cave-dweller. Its mind is contemporary with the mammoth. Hence, its earliest play impulses have no apparent practical bearing whatever. The child's mind begins where that of the race did, and passes through absolutely parallel stages in its development."

"Dear, tired mother and housekeeper," says Dr. Mary Wood-Allen, "let us become as little children for a while, putting aside the worries and cares of life and living in a world of self-created beauty. Let us 'play' at living. It will not be wrong to make around us a world of lovely imaginings wherein enters no discord, no strife. Let us 'play' that we are beautiful, and refuse to see the wrinkles or hard, anxious lines; let us 'play' that we are gentlefolks, born to a noble heritage and so try to demean ourselves in accordance with our rank and station. Let us look beyond the dull walls that surround us, and touching our meager belongings with the magic wand of imagination, see ourselves in palaces or castle halls. Let us play that our children are good and obedient and refuse to believe that they can be otherwise, and so bring them with us into this beautiful world our thought has made."

Take time to be merry, to "have a good time," and you will double your possibilities of health, wealth, and happiness. Anglo-Saxons are made fun of because they taken even their fun of because they take even their with characteristic energy, make

All Kalamazoo ranges and cook stoves are equipped with patent even thermometer. Makes baking sure and easy.

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A better stove or range than you can get from any other source. A saving of from 25% to 40% in price. Prompt shipment from factory to user. Factory prices—no dealers' profits. Freight prepaid by us. 360 days approval test. Guarantee backed by \$20,000 bank bond.

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THE KALAMAZOO STOVE CO.,
Manufacturers,
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a business of it. Ian MacLaren's story of the American who was "doing" the United Kingdom is a good illustration of Jonathan's method of pleasuring. A visitor's card was brought to Dr. Watson (Ian MacLaren), in his study, but, before he had time to read it, his visitor stood before him, and announced himself: "My name is Elijah K. Higgins," he said, breathlessly, and I am a busy man; you are also busy and have no time to fool away. Four days are all I can give to the United Kingdom, and I wished to shake hands with you. Good-by, I am off to Drumtochty!"—Success.

"Oh! the blessed and wise little children,
What sensible things they say!
When they can't have the things they
wish for,
They take others, and cry, 'Let's play!'
"Let's play that the chairs are big
coaches,
And the sofa a railroad car,
And that we are all taking journeys,
And traveling ever so far.
"Let's play that this broken old china
Is a dinner set, rare and fine,
And our tin-cups filled with water
Are goblets of milk and wine.
"Let's play every one of our dollies
Is alive and can go to walk,
And keep up long conversations
With us, if we want to talk.
"Let's play that we live in a palace,
And that we are queens and kings;
Let's play we are birds in a tree-top,
And can fly about on wings.
"Let's play that we are school-keepers,
And grown people come to our school,
And punish them all most soundly
If they break but a single rule.
"Oh! the blessed and wise little children,
What sensible things they say!
And we might be as happy as they are,
If we would be happy their way.
"What odds 'twixt not having and hav-
ing,
When we have lived out our day!
Let us borrow the children's watch-
word—
The magical watchword, 'Let's play.'"
—Anon.

Club Department

OFFICERS OF STATE FEDERATION OF WOMEN'S CLUBS.

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Vice-Pres.....Mrs. Kate E. Atlington, Council Grove
Recording Sec'y.....Mrs. Eustice H. Brown, Olathe
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Our Club Roll.

Mutual Improvement Club, Carbondale, Osage County (1895).
Give and Get Good Club, Berryton, Shawnee County (1902).
Woman's Literary Club, Osborne, Os-
borne County (1902).
Ladies' Reading Club, Darlington Township, Harvey 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, Minne-
apolis, Ottawa County (1888).
Ladies' Social Society, No. 2, Minne-
apolis, Ottawa County (1889).
Ladies' Social Society, No. 3, Minne-
apolis, Ottawa County (1891).
Ladies' Social Society, No. 4, Minne-
apolis, Ottawa County (1897).
Challitso Club, Highland Park, Shaw-
nee County (1902).
Cultus Club, Phillipsburg, Phillips County (1902).
Literature Club, Ford, Ford County (1903).
Sabeau Club, Topeka, Shawnee County, R. R. No. 2 (1903).
Star Valley Woman's Club, Iola, Allen County (1902).
West Side Forestry Club, Topeka, Shawnee County, R. R. No. — (1903).
Fortnight Club, Grant Township, Reno County (1903).
Progressive Society, Rosalia, Butler County.
Pleasant Home Club, Wakarusa Town-
ship, Douglass County.

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

Suggestions for Programs.

One of the difficulties, especially for newly started clubs, is to make suitable programs which will be interesting to all the members. Mrs. Lewis, president of the State Federation, realizing this, makes the following suggestions, which are excellent, I think. They need not all be used nor in the order in which they are given. Some of them are appropriate only for special days:

1. Kansas Day—Roll-call, Sayings of Ingalls. Reading, "The Kansas Emigrants," Whittier. History of Kansas to 1900. Early heroes.
2. Roll-call, Sayings of Lincoln. How to simplify housekeeping. Children's evenings on the farm. Manual training.
3. Reciprocity Day—Roll-call, My favorite flower and why. Reciprocity bureau, general discussion. It is suggested that a paper on manual training be used. Send to Mrs. Kate A. Aplington, Council Grove, Kans.
4. Kansas Day—Roll-call, How and why



you paid to get them, and will also refund to you the amount of money you paid to us. All of our dealings are done according to the Golden Rule of doing unto others as we would expect they would do unto us. Therefore, you can be assured that you will get a square deal on everything you ask it. Below is a list of the special catalogues we issue.

PAINTS
GROCERIES
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Kline-Drummond Mercantile Co.
Nineteenth and Pine Streets,
2 BLOCKS NORTH OF UNION STATION. St. Louis, Mo.

SEND FOR OUR GENERAL CATALOGUE AND BUYER'S GUIDE.

Why Not Save Money on the Things You Eat and Wear and Use?

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OUR GENERAL CATALOGUE LISTS THE GOODS AND GIVES THE PRICES.

It is the handsomest book of its kind ever published—it costs a dollar to print and send it out, and if you have not one in your family, and will SEND US 15 CTS. to partially pay postage, we will present you with a copy and pay all the postage ourselves, and will refund the 15 cents upon receipt of your first order.

COME AND SEE US WHEN YOU ARE IN ST. LOUIS.

We are now located in our new quarters at 19th and Pine Streets, St. Louis, just two blocks north from Union Station. It is the easiest place to find in the city, and we invite you to visit us when you come to St. Louis. We want to get acquainted with you; we want you to see the immense stock of goods we have; we want you to compare our prices with the prices you've been used to paying at home. We want you when you come to St. Louis, to make your headquarters with us; to meet your friends at our store; to write your letters there and have your mail come in our care. You will not be asked to buy goods, but will be treated in every sense as our guest.

We will send any of the following SPECIAL CATALOGUES FREE Upon Request.

We issue a great many Special Catalogues. We list them below. Don't forget our established way of doing business—that is, we make wholesale prices to you, we guarantee goods to reach you safely, we guarantee that you will be satisfied with what you get and that you will feel that you have had your money's worth. If you do not feel so, then the goods can be returned at our expense, and we will refund the amount of freight or expressage you paid to get them, and will also refund to you the amount of money you paid to us. All of our dealings are done according to the Golden Rule of doing unto others as we would expect they would do unto us. Therefore, you can be assured that you will get a square deal on everything you ask it. Below is a list of the special catalogues we issue.

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I came to Kansas. Sketches or readings from present-day Kansans; Kansas women writers; Kansas daily newspapers. 5. St. Louis Exposition—Roll-call. Why I would like to go to the Universal Exposition in 1904. History of exposition. Building of exposition. Management of exposition. Kansas and Kansans at the exposition.

6. Thanksgiving Program—Roll-call, What I am thankful for. A Thanksgiving story. Thanksgiving poems.

7. School Day—Roll-call, Bible verse of promise. This day is set apart to visit the school.

8. Christmas Program—Roll-call, Christmas quotations. A Christmas story. Christmas customs. Christmas poems. As this is the Christmas season, what effort can our club give to improve the school and neighborhood?

9. St. Louis Exposition—Roll-call, Foreign countries that will be represented at the exposition. American artists at the exposition. Landscape gardening. Art building. Arrangement of cascades. Architecture—architects—style of buildings. Exhibits in Government building. Lewis and Clark.

10. Patriotic Day—January 29—Roll-call, Sayings of Washington. Paper, Why We Love Our Country. Informal talks. Why we are proud of Kansas. Landmarks in the neighborhood.

11. Kansas Day—Roll-call, Verse of some Kansas poetess. State educational institutions. State penal institutions. State charitable institutions. The woman's share of the income.

12. Roll-call, A tribe of Indians. Magazine article. Kansas Indians and their history. Indian work.

13. Ministers' Day—Roll-call, Proverbs. Sacred songs. Address by minister, or short talks by all neighboring ministers. Early missionaries of Kansas.

14. Art Day—Roll-call, An American artist. Famous madonnas. Bring a picture or collection of pictures and have a social chat about them.

15. Home Day—Roll-call, Funny sayings of children. Paper, The Children's Spending Money. General discussion. Debate by two or four ladies: Resolved, That a little agriculture in our public schools will help to keep our boys on the farm. Election of officers.

16. Kansas Day—Roll-call, Why is the Agricultural College at Manhattan of more importance to the State than any other school? Industries of Kansas—agriculture, salt, lead, coal, zinc, oil, horticulture, etc. Informal talks. Advantages of farm life.

17. American Literature—Roll-call, Quotations from Longfellow's "Hiawatha." Biography (three minutes). Reading, "The Children's Hour;" "Psalm of Life;" "The Bell of Atri;" short story of "Evangeline."

18. American Literature—Roll-call, Quotations from Lowell. Reading of short selections from Whittier, "My Psalm;" Whittier, "Barefoot Boy;" Hawthorne, "Great Stone Face;" Poe, "Annabel Lee;" Holmes, "Chambered Nautilus;" Bryant, "Thanatopsis."

19. American Literature—Roll-call, Quotations from Lucy Larcom, Celia Thaxter, and the Carey Sisters. Readings from Bret Harte, Sydney Lanier, Joaquin Miller, Mark Twain, and John Burroughs.

20. Annual Picnic—Roll-call, Club and visitors. Quotations from Ironquill. Paper, Social Responsibilities. Informal discussion. Song, "America." Dinner. Debate, Resolved, That too much food on the table is not refined. Affirmative, club women, negative, club husbands and brothers. Address by county superintendent or some neighboring educator. The way to have a school library in Kansas. General discussion. Adjournment to day and hour of annual school meeting, which all good citizens should attend. References.

Prentiss' History will furnish much material for Kansas Days.

A traveling library of fifty volumes may be obtained from the State for six months for \$2, renewed six months for \$1. Send list of books desired to Miss Nellie Armentrout, Secretary Traveling Library Commission, Topeka, Kans.

Write to Bureau of Publicity of University Exposition, St. Louis, Mo., for maps and pictures for study of exposition.

New way to smoke meat in a few hours with **KRAUSER'S LIQUID EXTRACT OF SMOKE.** Made from hickory wood. Delicious flavor. Cleaner, cheaper. No smoke house needed. Send for circular. E. KRAUSER & BRO., Milton, Pa.

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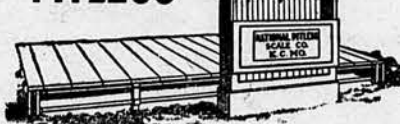
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Made of best hardwood slats 4x1 1/2 inches, 4 ft. high, No. 13 galvanized wire, space 2 inches between slats. 500 bushel capacity, four cables \$4.25, 6 cables, \$4.45; 700 bushel Crib \$5.00; 800 bushel Crib \$5.50; 1000 bushel Crib \$6.15; 1200 bushel Crib, \$6.70; 1250 bushel Crib, \$6.75.

HIGH GRADE STANDARD WAGONS—3 inch, \$45.00; 3 1/2 inch, \$46.00; wagon boxes, full size, 56 inches deep, complete, \$10.00; Tip Top Boxes, \$2.00; scoop boards, soft fastening, fits any wagon box, \$1.40. Send 10 cents for 200 page catalog of goods at wholesale prices to consumers direct.

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For selling our Swan Baking Powder and Salvona Brands of Teas, Coffees, Spices etc. To introduce our household specialties we give free to every purchaser a beautiful American Prescut Glass Sugar Bowl and Cream Pitcher. This is a magnificent set, as the illustrations show, and is the very latest design. To the agent who will sell a small quantity of our household supplies we will give free a beautiful Black Cooney Fur Scarf. It has two large Martin Tabs is 58 inches long and is the very latest style; or if the agent prefers we will give our 50-piece Dinner Set. This set is full size, one of this season's newest designs, with filled-in flowers and gold traced and looks exactly like hand-painted ware; or we will give our 10-piece set of granite-ware. This is a complete kitchen outfit, all steel enameled. We also give Curtains, Couches, Rockers, Parlor Tables, Sewing Machines, Parlor Lamps,



Musical Instruments of all kinds and many other premiums for selling our household specialties. Easy to sell as every family uses them every day. We allow you 15 days to deliver the goods and collect for them. We give cash commission if desired. No money required. We pay all freight charges. Write to-day for full set of plans. You will find many useful premiums, and we guarantee satisfaction. **SALVONA SUPPLIES COMPANY, 503 Publicity Building, ST. LOUIS, MO.** We can assure our readers that Salvona Supplies Co. is thoroughly reliable and trustworthy.—Editor.

GRANGERS' BANQUET.

(Continued from page 1181.)

choosing so old a subject, told a good telephone story, and related some of the methods by which young men of his community had acquired their wives, and closed with a tribute to the sympathy and self-sacrifice of the good wife.

Indian Creek Grange called Mrs. J. F. Cecil to open its topic, "How to Secure Better Attendance." She showed that many join the Grange attracted by the great advantages for insurance enjoyed by members of the order. These are apt to attend occasionally, keep their dues paid regularly, but often fail to get into the true spirit of the Grange and therefore miss many of its advantages and fail to contribute their share to the general benefit. Some men attend regularly and thus prevent the meetings from drifting into a woman's club. True, ice-cream and cake in summer, or coffee and a spread in winter will bring out a full attendance of men. In Mrs. Cecil's opinion, too much time is taken up with initiations. More attention should be given to the literary and musical features of the Grange. These will attract more young people. Touching on the question of afternoon or night meetings, Mrs. Cecil said that as the men had grown older a marvelous fear of driving after dark had come over them. She would like to see some provision made for the children. In many cases they can not be left at home.

Mrs. J. B. Sims thought the children of grangers ought to all be grangers by birthright. She favored afternoon meetings and a nursery for the children. After a while the men will find that they are gainers by an occasional half-day off. The literary hour should never be crowded out. The presentation of current events had proven popular at Oak Grange.

Mrs. Tevis thought a good way to get the men to the grange was for the women to go and take the dinner; the men were sure to follow. Mrs. Shields would cut out about half of the ritual. Dr. Taylor would expand the literary features. It is good for neighbors to come together. Older people should spend less time sparring over trivial matters. Mrs. McCracken thought the dignity of the initiatory ceremony should not be overlooked. She favored literary rather than social features. Mr. Hixon inquired how the lecturers get their members to take part. Miss Buckman, lecturer of Oak Grange, had found the current-events plan most efficient in bringing members to their feet.

Oak Grange had for its topic "Insurance." Mr. Hibner, manager of the Grange Insurance work, was expected but did not arrive. Mr. Wallace stated that the insurance feature was found to have other advantages than the mere certainty of remuneration in case of loss by fire or storm. The feeling of mutual helpfulness is promoted. The insurance feature is also valuable in bringing people into the Grange and thus within the reach of the many beneficent influences of the order. President Sims stated that when insurance was instituted in the Grange the fraternal feature was prominent. He deemed it fortunate that this feature still prevails. It enables each to help a brother in misfortune in an orderly and a legal way at small expense. The fraternal feature of Grange insurance should be kept prominent in the minds of all.

Recitations were given by Mrs. J. B. Sims, Mrs. W. H. Coffman, Miss Anna Reece, and a fine instrumental piece was rendered by Miss Ella Sims. A paper by Miss Lucy Popenoe, of Berryton Grange, was read by Miss Dunlap, Miss Popenoe being detained at home by sickness in her family.

The lecturers of the several granges were made a committee to arrange for future union meetings of the granges of Shawnee County.

Mrs. Otis, on request, reviewed the great work of the order and the influences it has exerted. She found many persons who are prominent in their communities and in the State received their impetus in the Grange in years past.



The Youth's Companion.

THE OFFER MADE EVERY FALL TO NEW SUBSCRIBERS INCLUDES AS A GIFT ALL THE REMAINING ISSUES OF THE YEAR FROM THE TIME OF SUBSCRIPTION. THESE FREE ISSUES, WITH THE FIFTY-TWO NUMBERS OF THE NEW VOLUME, GIVE THE NEW SUBSCRIBER SEVEN HUNDRED LARGE PAGES OF THE BEST READING—INSTRUCTIVE, AMUSING, HELPFUL IN THE FORMING OF CHARACTER.

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The New Subscriber who cuts out and sends this slip or the name of this Paper at once with \$1.75 will receive:

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Full Announcement and Sample Copies of the Paper Free.

THE YOUTH'S COMPANION, 201 COLUMBUS AVENUE, BOSTON, MASS.

Major Sims responded to calls by saying that the Grange is profitable in every community where it succeeds; and it succeeds wherever organized if the purposes and principles of the order prevail.

A more enjoyable fraternal meeting has rarely taken place than that of the Patrons of Husbandry of Shawnee County. Old and young were benefited by a day off, a day of pleasure, play, and feasting. Americans, especially American farmers, are apt to take life too seriously. The strongest need to turn away occasionally from the exacting duties of life and re-create their energies and re-establish their powers by a season of relaxation. The purpose to make festive occasions of fraternal greetings a feature of their lives is one of the wisest ever taken by the granges of Shawnee County.

Miscellany.

Plant Timber on Overflowed Lands.

George L. Clothier, in charge of field work for the United States Bureau of Forestry, is in Kansas for the purpose of devoting a month at least, and more time if necessary, to an investigation of the conditions in the Kaw River valley. After he has completed these investigations he will prepare a report which will be sent free to any one living in the Kaw valley who desires it. In his investigation Mr. Clothier will examine the valley from Kansas City to Salina.

This is a matter which will be of special interest to the farmers whose land was injured for farming purposes by the high water in June. Along the Kaw valley there are thousands of acres of land which have been rendered temporarily useless for the cultivation of crops. Mr. Clothier proposes to plant this land to forest-trees, for the double purpose of making it a source of income to the owners and at the same time eradicating and weeding out the objectionable species of trees which will speedily spring up. The two trees which come under the head of "objectionable," which are

most common in this portion of the country, are the cottonwood and the willow.

Mr. Clothier makes an examination of the land of every man who wants to plant trees. The kinds of trees to be planted vary with the kind of soil and the purposes for which they are desired. After this examination and the farmer procures his trees, he is furnished with literature. This shows him just how to plant each species of tree and the care to give it.

Mr. Clothier desires to interest the farmers of the Kaw valley in this matter. He wishes to work up a series of public meetings which he will address, and in this manner he can explain fully just what this kind of work will accomplish and what the farmers can expect from it.

For this part of the country Mr. Clothier designates the hardy catalpa, the black locust, and the osage orange, as the best trees to raise for commercial purposes where comparatively speedy returns are desired. The catalpa and the locust will reach a point in eight or ten years where they are available for cutting into fence-posts, and furnish the best material to be had for this purpose. The osage orange comes in the same class, but it takes longer to mature.

It is never advised to plant of one kind of tree exclusively. They do not do so well planted in that way as where they are mixed. A more rapid growth and a better development is obtained where at least two species are planted in alternating rows. A combination that is hard to beat for this part of the country is the hardy catalpa and the osage orange. The black walnut is a splendid tree for commercial purposes, but it is practically impossible to make a success of it on the high prairies of western Kansas. This is true to a certain extent also of the catalpa. Both of these trees are exceedingly deep-rooted and need a moist subsoil. The catalpa will grow successfully, however, as far west as Larned in this State. The walnut is only successful along the low lands and creek- and river-bottoms.

The osage orange and locust are shallow-rooted and flourish in places where the subsoil is almost as hard as a rock. They make a rapid growth in wet weather, but will live during long periods of drouth, although they may make no special advancement during that time.

Mr. Clothier is specially interested in this work in Kansas, since he is a Kansas man, having lived for many years in Wabaunsee County. His headquarters at present are in Washington, D. C., and any one who wishes to write him on this subject can reach him through the Forestry Department. Letters arranging for the holding of public meetings during the coming months along the lines of Mr. Clothier's work can also be addressed to him, care George W. Tinscher, Topeka.

Some Effects of the Floods.

EDITOR KANSAS FARMER:—The great floods of last summer are now a matter of interesting history. They are a memory which those who suffered and lost from them do not willingly cherish. But the changing of the river-courses and the washouts or deposits on the over-flooded valleys are effects of the floods that will probably remain for years and even centuries. While the flooded farmers suffered great losses, yet many received gains by the rich deposits on their fields; some actually received an increase in the acreage of their farms. Considering the general ruin and almost incalculable damages, it is comforting to know that there was some compensation.

I will briefly narrate something of what took place on this farm; and, no doubt, similar things occurred on many others. My farm lies in a horse-shoe bend, being at the southern extremity on the north side of the Big Blue River. Adjoining the river is a good-sized strip of timber and above this the low-land fields. A little distance below the commencement of the horse-shoe curve a current of water flowed across the bottoms. A channel of several rods length was cut, so deep that waters flows into it whenever the river rises a little. Some distance below

this channel there is a big sink-hole fifteen feet deep. This is nearly a mile above my place. My land being lower than the land above and the timber acting as a stoppage, it received immense deposits. The immensity may be better realized when I say that whole fences were covered up in some places, the soil being lodged like big snow-drifts. It is marvelous to see how the land has been leveled up. Some low draws have been raised from one to over two feet; and this addition is not barren sand but rich black soil, full of humus. The soil was rich enough before (too rich for many kinds of crops), so I do not consider this a big benefit, but the increased elevation of the land, the filling up of the low places, and making it more generally level, this I put down as one advantage or "redeeming feature" of the terrible floods.

On the other side, the river cut a new channel through a sand-bar. During the flood a year ago last July, this new river course was begun and the work was finished at the flood-tide of last August. Now there is a respectable looking island in the river. About two acres were added to this side as an obtuse cape, leaving a ten-foot strait between it and the island. You will then understand that there is formed a little gulf; eventually this gulf will be filled up with sediment and, with the island, become an addition to this farm.

When I look at the great change wrought, so complete and picturesque, I am filled with awe and wonder, contemplating the power in nature's element, water. W. O. PETERSON.
Riley County.

Wants Plan for Farm House.

EDITOR KANSAS FARMER:—Will some one give us a plan of a good, convenient seven-room farm house built economically? A SUBSCRIBER.
Dickinson County.

Send drawings to this office. The KANSAS FARMER will take pleasure in engraving and printing meritorious plans.

KANSAS FARMER'S NEW WALL ATLAS.

The KANSAS FARMER has arranged with the leading publishers of maps and atlases to prepare especially for us a New Wall Atlas, showing colored reference maps of Kansas, Oklahoma, Indian Territory, the United States, and the world, with the census of 1900. The size of the New Wall Atlas is 22 by 28 inches, and it is decorated on the outer cover with a handsome design composed of the flags of all nations.

Tables showing products of the United States and the world, with their values, the growth of our country for the last three decades and a complete map of the greater United States are given. This is an excellent educational work and should be in every home. The retail price of this New Wall Atlas is \$1.

Every one of our old subscribers who will send us \$1 for two new trial subscriptions for one year will receive as a present a copy of this splendid Wall Atlas postpaid, free.

Any one not now a subscriber who will send us 50 cents at once will receive the KANSAS FARMER for five months and will be given a copy of our New Wall Atlas free and postpaid.

Topeka Flood Views, 10 Cents.

This is to inform you that the Kansas Farmer Company have purchased the balance of the flood views, which was so very popular and had such an extensive sale this summer. The book is neatly gotten up, printed on excellent quality of paper and contains thirty-five views of the Topeka Flood, with statistics in regard to the flood. This book has sold all the time at 25 cents, but in order to close out the balance we have on hand, we will send them out, as long as they last, at 10 cents each, postage paid. This notice will probably not appear again. Address, Kansas Farmer Company, Topeka, Kans.

One Dollar and Twenty-five Cents.

Kansas Farmer and Topeka Semi-weekly Capital for one year only \$1.25.

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 post office, should be signed with his full name, and should be addressed to the Veterinary Department, Kansas Farmer, Topeka, Kans., or Dr. N. S. Mayo, Manhattan, Kans.

Periodic Ophthalmia.—I have two mares that are subject to blind spells; I think it is moon-blindness.
Lincoln County. SUBSCRIBER.

Answer.—If your mares have periodic ophthalmia or moon-blindness it is only a question of time when they will be totally and permanently blind. The only treatment is to lessen the temporary effects. Bathe the eyes with hot water, and internally give one dram of quinine twice daily during the attack. Keep the animals in darkened stalls to protect from the light.

Indigestion or Hog-cholera.—I have some pigs 8 or 10 weeks old that have diarrhea; some seem to be improving; they have corn, grass and slop with a good range on grass. FARMER.
Franklin County.

Answer.—I should think your pigs had indigestion. Cut down their feed to a small quantity of slop made of milk or swill and a little shorts. Some of the Government hog-cholera remedy in this would be excellent. I think by careful dieting your pigs ought to get along all right, provided it is only indigestion, as your letter would indicate.

Deadly Cattle Disease.

Of all bovine diseases, blackleg is undoubtedly the most virulent. Indeed, as thousands of cattlemen know to their cost, it is a malady for which no remedy is known to exist. Notwithstanding the deadliness of its attack and the fact that it is yearly becoming more and more prevalent in various parts of the country, this disease is not so well understood even by stockmen as it should be. How to diagnose it, whence it arises, how to prevent it, are questions of immeasurable moment to every cattle-raiser. Messrs. Parke, Davis & Co., manufacturing chemists and biologists, with general offices and laboratories at Detroit, Mich., have recently issued a little pamphlet ("About Blackleg") admirably covering these points. We reprint here a few paragraphs which serve to show the extreme malignancy of blackleg and explain with what startling rapidity the germs of the disease multiply:

"Blackleg affects a few other animals besides cattle, but to so small an extent that they may be left out of the account, while among cattle its ravages are simply appalling. It is the very opposite of tuberculosis, that other scourge of the bovine race; for whereas tuber-

culosis undermines the health of the animal slowly and insidiously, blackleg strikes like lightning and almost as quickly kills. The title of the disease is descriptive. The disease blackens the parts it affects, which are chiefly the thighs, the shoulders and the neck. This blackening, however, is internal, of the muscles and blood; externally there is a swelling, or tumor, at the affected spot, which may extend to the whole body either before or after death. If this tumor be 'kneaded' or pressed under the knuckles, it emits a crackling sound; and if cut into, it exhibits the blackened tissues and fluid, accompanied by a peculiar odor which can not be described but which assists the experienced veterinarian in making a correct diagnosis. Naturally, the affected animal loses appetite and spirits, and becomes stiff and lame. There is no known remedy. Blackleg is its victim's death-warrant.

"The cause of all this disturbance is a minute organism. It can not, of course, be seen with the unaided eye; but he who treats it as if it did not exist will soon be brought to his senses by the effects of its astounding vitality in favorable surroundings, such as it finds in bovine tissues. It multiplies by fission, or 'sporulation,' and in twenty-four hours a comfortable little family group has become a million or more, with undiminished powers of geometrical increase. The germs enter the animal's body through scratches or wounds in the skin, or along with its food or drink."

Fortunately for the stock-raising interests of the country, science has devised a reasonably certain preventive against this king of cattle diseases. By vaccination with a reliable blackleg vaccine the animal is successfully fortified against it, just as the individual is rendered immune to smallpox by inoculation with the virus of cowpox. This is all explained in the pamphlet referred to, which, in addition contains interesting supplementary chapters on "How Blackleg Vaccine is Made" and "Vaccination Made Easy." Cattlemen are advised to write to Parke, Davis & Co. for this booklet, which we understand is mailed free upon receipt of request. This firm, whose laboratories at Detroit are said to be the most extensive of their kind in the world, were among the first of American investigators to make a scientific study of the blackleg malady.

Portable Slat Corn Crib.

Portable Slat Corn Crib are now used by a great many farmers throughout the country. It has been proven beyond a doubt that they are the cheapest and best temporary crib.

Many farmers use the Portable Slat Corn Crib in the fall, and after hauling their corn, saw them in two, using them for hog fences. The cribs are well worth the first cost for fencing alone; so that the farmer virtually gets the use of the crib for nothing.

We take pleasure in calling the attention of our readers to the advertisement of the Inter-State Mercantile Co., of Kansas City, Mo., in this issue on their line of Portable Slat Corn Crib.

Worms Kill More Hogs than Cholera.

I am convinced that it will pay any feeder to use Prussian Stock Food at all times. The extra pounds of pork the food makes more than pays for the remedy fed. It keeps hogs in a healthy condition. It will prevent and expel worms. Worms kill more hogs than cholera. In fitting hogs for the show ring I have never used anything that will put an animal in "show shape" in as short a time as the Prussian Stock Food. The Prussian Lice Killer also does the work.
Ridott, Ill. F. M. ASKEY.



The New Way of Curing Meat, Invented by E. H. Wright & Co., Kansas City, Mo.

We present herewith an illustration showing the new process of curing meat, with a liquid smoke invented several years ago by E. H. Wright & Co., of Kansas City, Mo. This liquid is made from hickory wood and contains valuable meat preservatives as well as doing away with the necessity of the old worry gathering material necessary for smoking the family meat in the old way. This liquid smoke put on the market by Messrs. Wright & Co., has given universal satisfaction wherever used, and the best recommendations to-day of Wright's Condensed Smoke are received from those who have given it a thorough trial. An interesting booklet giving full information of this wonderful invention is published

by Messrs. Wright & Co., and will be mailed free to any of our readers who are interested in the best way of curing their family meat. Wright's Condensed Smoke is for sale by all the leading druggists throughout the country and should you be unable to secure a supply from your local dealer, write direct to the factory in Kansas City and your wants will receive prompt attention. If you ever try Wright's Condensed Smoke for curing your meat you will never try any other process because it is cheaper, better, and much less trouble than the old way. Write for printed matter telling all about it as well as containing many endorsements from satisfied patrons. See advertisement elsewhere in this issue and in writing please mention this paper.

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To send us a trial order and test our ability to satisfy you in every particular. We have special catalogues on almost every line you can think of. Tell us what kind of goods you are interested in, and we will send you, absolutely free, any of the following illustrated catalogues quoting wholesale prices. Be sure to mention the one you want, and we will send it Free of Charge.

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Men's and Boys' Suits (both Ready-Made and Made-to-Order) including Samples.

If you desire our complete catalogue, a book of over 1100 pages, and weighing 3½ pounds, send for Catalogue No. 72, and enclose 15 cents in either stamps or coin. The small catalogues are free. Buy your goods at wholesale prices.

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EMPIRE Cream Separator

Guaranteed to turn more easily, to last longer, to be more easily cleaned, to give less trouble and to be more satisfactory in every way than any other separator. Simplest in construction. Investigate our claims—ask any Empire user.

Handsome Catalogue Free.
EMPIRE CREAM SEPARATOR COMPANY,
Bloomfield, N. J. Chicago, Ill.

WE ARE THE OLDEST SCALE MANUFACTORIES IN THE WEST!

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We have REDUCED PRICES 50 Per Cent and maintained the Quality. We do Repairing, and do what we say. We ship on approval. We pay the freight.

WE SAVE YOU MONEY
On Steel or Wood Frame Scales, Feed Cookers, Grinders, Gasoline Engines, Windmills, Pumps, Tanks, Wagons, Carriages, Sleighs, Harness, and Patent Specialties. Investigate.

THE UNION SCALE CO.,
Dept. J, Des Moines, Iowa.

HEAT YOUR HOUSE WITH A Compound Radiator Furnace.

It will save one-third of the fuel, keep all of dust and ashes in the cellar, keep the floor warm and all of the rooms an even heat, the same as summer. Will burn four-foot wood, coke or any kind of coal. Any handy man can set it up and connect the pipes in two days in an ordinary house. Price with galvanized casing, all complete, less than a good stove. Send for catalogue Address—
The Iowa Grinder & Steamer Works, Waterloo, Iowa.

Gold Watches Beautifully engraved. Have the appearance of solid gold watches. They look equal to a \$50 watch. Price \$2; rebate of 50c to agents. Just the watch for a Christmas present.
New Process Mfg. Co., Dept. D 5, Lincoln, Kans.

Wanted--Oil Agents

In every county—reliable, energetic man to sell on commission, especially to the Farmers and Threshers our line of High Grade Lubricating Oils, Greases, also Roof, Barn, and House Paints. Apply at once. Address The Woodland Oil & Grease Co., Cleveland, O.

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SHARPLES TUBULAR CREAM SEPARATORS

A dozen bucket bowls but only one **Tubular.**

We alone make the **Tubular**, all competitors make the old style bucket bowls. They cannot make tubular bowls because of our patents. The **Tubular** is worth fifty per cent more than any of the old style bucket bowl separators, as thousands of dairymen will testify. Write for Catalogue No. 165

THE SHARPLES CO., Chicago, Illinois.
P. M. SHARPLES, West Chester, Pa.



In the Dairy.

Conducted by George C. Wheeler, Kansas Experiment Station, Manhattan, Kans., to whom all correspondence with this department should be addressed.

Dairy Bulls.

Doubtless numbers of our Kansas dairymen are seriously considering the purchase of a dairy bull as a herd-header. A most excellent paper by Mr. Chas. L. Hill, of Rosendale, Wis., was read at the Wisconsin Dairymen's Association meeting and published in full in *Hoard's Dairyman*. The kind of a bull to use in improving our dairy herds is a most important one, and advice coming from a dairyman of Mr. Hill's experience is exceedingly valuable.

We quote from the paper as follows: "How can I be reasonably sure that any bull that you, or any other breeder, may send me, will improve the quality of my herd?"

"This question I copy from a letter, received in my mail two weeks ago. This is with all of us the leading question, and I wish I were able to answer it with any degree of certainty. In our few minutes' talk together we may be able to exchange some ideas that will be mutually helpful.

"In the discussion of this question, the first thing to do is to answer the question, 'Who needs a dairy bull?' And I would answer it by saying that any man who intends to make dairying the chief aim of his live-stock farming, needs a pure-bred dairy bull.

"What breed?" you ask. I would answer, just the breed you take a fancy to, for with this one you will have the best success, for you will give it the best care. The bull the dairyman will need will possibly not be the one that the pure breeder will need, for the latter, besides utility, is seeking for looks and many fancy points. In his search for a bull by correspondence, the dairyman must rely largely on pedigree, and the reliability of the breeder he deals with. If possible, I would go and see the dam of the bull I was to use in my herd.

"How good a cow shall she be?" I would say that with the improved methods of care, given by the breeders of to-day, to their herds, no bull should be given a place in a good dairyman's herd whose dam did not make at least 400 pounds of butter in a year, or its equivalent, 343 pounds of fat. The greater her record, the more valuable her son, other things being equal. An excellent plan is to buy an old bull, if still vigorous, and only in this way can you know just what kind of a sire you may have. Many of the best sires of all the breeds have gone to the shambles long before their usefulness was known.

"In the selection of a bull for his individuality, the first thing I would want would be masculinity. This is not shown by his being coarse, or by his having a big head, but by his resolute, sturdy, commanding appearance. This has nothing to do with his being cross, for this is largely education, or rather the lack of it. He wants to show that he has energy to spare. Then I want him to have a good muzzle, showing a good appetite; and then a large barrel, showing good digestive capacity. For use in a grade herd, never mind if his great barrel has caused his back to sag a little.

"Nearly the same words will apply to the selection of a young bull. Let him be active, robust, intelligent looking and showing large capacity. If you wish his daughters to have good shaped udders and good-sized teats, see that his dam has such an udder and that the bull himself has good sized, squarely placed, rudimentary teats. Let him be thin in the thighs and show no tendency to beefiness at any place. In fact let him be all that is different from a beef sire. As emphasizing the thought that our bull should have a good mother, a few moments' study of some of the great dairy sires, of the different breeds will be pertinent."

Mr. Hill here takes up the study of the greatest sires of the Holstein-Friesian, Jersey, and the Guernsey breeds and in each case the truth of his theory appears in the fact that the maternal ancestors both immediate and more remote of these famous bulls were exceptionally good cows. Their fame rests upon the fact that they have produced such a large number of high-producing daughters. It is evident that a careful study of a bull's maternal ancestry is an important point in determining his prepotency in begetting good-producing cows.

As regards the feeding, exercising, and general care of a bull, Mr. Hill goes on to say: "I think one of the serious mistakes often made is to make a bull live entirely on roughage when in heavy service. Let them have all the good hay or corn-fodder they want, but feed lightly of corn silage. Feed a ration of bran, or bran and ground oats from six to eight pounds per day.

"If a bull is quiet, and a paddock is handy, he will be much improved by being on pasture in summer until the flies get bad, but in nearly all cases it is better to keep him in the barn. Above all things that a bull needs, and not nearly enough of them get, is plenty of exercise daily.

"On many farms where the item of expense is not counted, a man will walk and lead a bull for an hour or more daily, and while it is doubtless efficient, few of us wish to spend our time in this way. By far the cheapest and best way to exercise a bull is a tread power, and we have so exercised our bulls for ten years. Nearly all of them learn it readily, even if old, and it will do no harm to work them there an hour each day.

"More than that, they can easily earn their board running the separator or other light machinery. It will not do to have the power very steep or they will slip. Another way to exercise a bull is to work him in a harness, and I have photos showing bulls working single and double. There are many other ways to exercise a bull; one is to tie him by a rope around his horns to an overhead wire or rope, 50 to 100 feet long."

Pure Milk and Fresh Butter.

W. C. MCARTY.

Perfection in butter-production will be obtained in the creamery that will be a leading feature of the dairy section at the World's Fair. The creamery will be 180 feet long and 20 feet wide, and the walls will be of glass. Visitors may see every process to which the milk is treated from the time of its receipt until it is transformed into butter or cheese.

The dairy section at the World's Fair will occupy 30,000 square feet in the Palace of Agriculture. The model creamery, which will daily use 5,000 pounds of milk, will be against the west wall, near the southern end of the building. It will be equipped with the latest butter- and cheese-making apparatus and will be in operation every day of the exposition. The glass walls will permit visitors to see every process, but all entrances are guarded and the section so screened that flies will find it as difficult to effect an entrance as visitors will. All of the machinery used in the model creamery will be operated by either electricity or compressed air, and only the latest and best approved methods will be employed.

Connected with the model creamery will be a model dairy lunch room. Here the visitor may test the efficiency of the creamery for himself. Milk and cream, absolutely pure, and butter and cheese, sweet and fresh, may be bought. Nothing will be sold in this luncheon save the output of the model creamery with the exception of bread. The visitor may get a bowl of milk and bread. Or he may order "half and half" or full cream if he desires. Buttermilk will also be on the menu card as will "schmier kase" and cream cheese and all other products of the creamery. Cleanliness will be the watchword. The milk and cream will be sold in bottles, and when poured into glass or bowl there will be found no sediment.

In connection with the model creamery there will be shown a sanitary milk plant. This also will be in daily operation, and it will be practically demonstrated that pure milk may be furnished in large cities as well as it can on the farm. Here will be shown by practical test the best methods of shipping the milk, the best cans, the proper way to receive and to handle it. In the event that the milk should be soured, or nearly so, when it is received, the value of the milk, as milk, is gone, but the butter-fat is as valuable as ever, and this milk will be used for butter-making.

The pasteurizing of milk will be shown in this exhibit. The milk is run through a series of machines and is subjected to a heat of 160°, and immediately is run through a cooler and restored to a proper temperature. This heat destroys any germs that may be in the milk, but in no way impairs its nutrition. It imparts to the milk a nutty taste that is soon relished. The heat of 160° does not boil the milk. It would require a heat of 10° stronger to do that. After the milk is pasteurized it will remain sweet for twenty-four hours longer than without this treatment.

In the dairy section, the latest dairy and creamery appliances and machinery will be exhibited by the leading manufacturers of the world. Indeed, all of the machinery in the model creamery and sanitary milk plant are exhibits.

A number of immense refrigerated show-cases will be provided for the States and foreign countries that participate in the dairy exhibits. These show-cases are 91 feet long and 35 feet wide. The sides are plate-glass and the sections are eight feet square. In the show-cases the products of the dairy and creamery will be displayed more attractively than was ever attempted at any other exposition.

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Cream Separators

Send free upon request. It will tell you why the Davis Separators are money makers for their owners.

THEY ARE GUARANTEED to separate THOROUGHLY and QUICKLY. Dairymen and farmers find the "Davis" the most economical piece of machinery on the farm. Let us send you full particulars about it. **DAVIS CREAM SEPARATOR CO.** 54 to 64 N. Clinton St., Chicago.



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ANNOUNCEMENT



The

John Deere Plow Co.



Kansas City, Mo., and Denver, Colo., take pleasure in announcing to the Farmers, Dairymen and General Dealers that they now have the general agency for the

Sharple's "Tubular"

Cream Separators. We have created a special "CREAM SEPARATOR DEPARTMENT" for the aggressive handling of this business. Your correspondence and patronage is cordially solicited. Yours very truly,



JOHN DEERE PLOW CO.

Kansas City, Mo.

Denver, Colo.



Iowa, for example, will show in her section, a life-sized statue of John Stewart, who founded the first creamery in that State. The statue is carved from pure, firm, golden butter. There will be other butter-sculpture, and fruits and flowers artistically fashioned in butter.

A separate refrigerating plant will be maintained for these cases, the interiors of which are immense store-rooms where supplies may be kept indefinitely. Any desired temperature necessary for the preservation of butter and cheese may be maintained. A zero temperature can be maintained if desired, in any of the cases for any length of time.

The operations of the dairy and creamery will at all times be under the personal supervision of Mr. E. S. Sendorff, superintendent of the dairy exhibits for the exposition.

At the Louisiana Purchase Exposition the importance of the dairy industry will be shown in the excellence of the exhibits. The vast importance of the industry has been, in a measure, overlooked. It is not generally known that the products of the dairy for one year in the United States are of greater value than the output of all the anthracite and bituminous coal mines combined. But the census report establishes this fact. Indeed, the value of the dairy is greater than all of the minerals mined in the United States if iron be excepted. The dairy products for a year easily outrank in value wheat or cotton. The last census report shows that the year's dairy products were valued at \$472,276,783, while the wheat crop brought \$369,945,320, and the value of the cotton manufactures were \$323,582,171.

September and October Report of H. N. Holdeman's Herd.

SEPTEMBER.	
Number of cows in milk.....	15
Pounds of milk produced.....	11,793.90
Average pounds of milk per cow.....	786.26
Average daily yield per cow, pounds.....	26.22
Average test not reported for this month.....	
Average period of lactation, 4 months and 10 days.....	

OCTOBER.	
Number of cows in milk.....	16
Pounds of milk produced.....	9,821.95
Average pounds of milk per cow.....	613.87
Average daily yield per cow, pounds.....	20.45
Average test, per cent.....	3.8
Average period of lactation, 4 months and 23 days.....	
One cow of this herd has produced 10,115.15 pounds of milk in eight months.....	

World's Butter Record.

WM. H. CALDWELL, PETERSBORO, N. H. Charmante of the Gron 14442, a Guernsey cow, was imported by H. McK. Twombly from England in 1902 and has just broken the world's butter-record for a year. She was dropped July 7, 1896, and was bred by Mr. J. Bourgalze, Gron, St. Saviour's, Guernsey. Charmante of the Gron is a very well marked cow, of good dairy conformation, with excellent udder, and a great credit to the breed and to Mr. Twombly's choice herd. She dropped a bull calf October 6, 1902.

Her year's record began October 11, 1902, and the requirements for her admission to The Advanced Register were 10,000 pounds milk; 360 pounds butter-fat. The results of her year's work are as follows:

	Milk.	Percent butter-fat.	Lbs. butter-fat.
October 11-31.....	693.56	4.9	33.98
November.....	1,194.94	5.3	63.33
December.....	1,142.25	5.4	61.68
January.....	1,121.06	6.1	68.38
February.....	1,019.25	5.7	58.10
March.....	1,108.50	5.6	62.08
April.....	997.40	6.0	59.84
May.....	1,078.20	6.2	66.85
June.....	1,013.00	5.6	56.72
July.....	864.85	5.7	49.30
August.....	769.45	5.7	43.86
September.....	710.25	6.0	42.62
October 1-10.....	162.05	6.0	9.72
Total.....	11,874.76	5.7	676.46

This record was supervised in connection with the New Jersey Agricultural Experiment Station. Not only does the work of the year greatly exceed the requirements of the Register, but it is the best year's record of a cow of any breed in the world, where public supervision has been given same. It is equivalent to 789.2 pounds of butter, or an average of 2.16 pounds butter a day.

Mr. Jos. L. Hope, the able superin-

tendent of Mr. Twombly's Florham farms gives the following data as to the feed consumed by the cow during the year:

	Pounds
Bran.....	1,726
Gluten.....	883
Cottonseed meal.....	160
Linseed meal.....	134
Corn meal.....	58
Midlings.....	58
Total.....	2,969
Per day, 8 pounds.....	

For roughness she had corn ensilage, beets, or mangels and mixed hay in winter. In summer in addition to pasturage she had in season, oats and peas, green clover, alfalfa, and corn fodder.

This record is certainly a credit to the cow and her owner, and to the careful management which Mr. Hope has given her.

Cows that Are Thieves.

"If the 'man behind the cow' in Kansas would do his part, no unprofitable animal would masquerade under the fictitious appellation of 'milk-cow,' and she would either go to the butcher's block or be made to return a profit by more intelligent care and management," says Secretary Coburn in the last Quarterly Report of the Kansas Board of Agriculture. "It passeth understanding why theft by a cow should be tolerated more than theft by a human. In effect, the result to the loser in either case is the same. Our Government has found it wisdom to study and establish far-reaching methods for the detection and the repression of the latter; and by the same token why should our farmers and dairymen be less vigilant in regard to this possible proclivity in their cows—beasts described as dumb, yet outwitting their owners? So long as cows of this class are permitted in the dairy herd, so long will there be dissatisfaction and failure. Improvement is the route to success, whether by breeding, better management, or other way, and intelligence in our cowmen is the power that will force advancement in the right direction.

"Dairying has come to be one of the most important factors in Kansas agriculture, and, rightly conducted, is one of the surest money-makers of our varied industries. It is incomparably more rational than any one-crop system, or even general farming, as its practice tends to rotation of crops, maintains or increases the fertility of land, and affords steady employment with returns remunerative according to the brains mixed with the business."

When forage is used to supplement the pasture it is of great advantage to have the field in which the crop is grown near the barn so that little time will be lost in hauling. It requires but very few acres to take the place of a large pasture when sown to some good forage crop. Plan on having a good patch near the barn or pasture for this purpose next year. We speak of this now as the fields for next year's crop are generally prepared in the fall. —A. J. M., in Kimball's Dairy Farmer.

Vansant's Seed-corn.

W. W. Vansant & Son, Farragut, Iowa, own about 1,500 acres of Iowa's richest corn lands, the uplands of the far-famed Nishnabotna valley country. This year they have quite outdone themselves in the production of an immense yield of fine corn, well-matured, and of the standard varieties that have made the name of Vansant popular everywhere among Western corn-growers. The writer went into these fields last week to see for himself. Seeing is believing. From these fields the boys are taking from 70 to 80 bushels to the acre, and the corn runs the most evenly to large, shapely ears of anything they have ever yet grown. Vansant's Early Yellow Reed is one of the finest varieties in the whole catalogue of field varieties. It is making 70 bushels straight. The Leaming is another yellow variety that takes the public by storm. In the Vansant fields it is a splendid stand and is cribbing 80 bushels strong to the acre, and it shells now like old corn. The Farmer's Interest is a beautiful variety of white corn, rows straight as a die, on a long, beautiful, shapely ear, and an immense yielder. The Vansant seed-corn announcement will be out in early December when we shall review the situation more in detail. You can write for samples, etc., of these and other varieties at any time. Mention Kansas Farmer.

A St. Louis World's Fair Information Bureau has been established at 903 Main Street, Kansas City, in charge of Mr. L. S. McLellan, where information will be cheerfully furnished.

Have You Any Milk Cows?

If so, all that is necessary to make you a participant in Separator Contest, is to answer the following questions:

- Your name and post-office address?
 - How many cows do you milk?
 - Have you a cream separator?
 - If so, what make?
 - Do you sell cream?
- REMEMBER the time is not far distant when it will be decided who gets the

ONE HUNDRED DOLLAR CREAM SEPARATOR FREE

Each letter is numbered and you will be notified of the number as well as received a handsome souvenir. In addition to this we want to again remind you that we are still in the lead on high prices. We are paying at present

21¢ A POUND FOR BUTTER-FAT

We are placing hundreds of the RENOWN, EASY-RUNNING, SIMPLE, DURABLE AND EASY TO CLEAN EMPIRE SEPARATORS, which make dairying pay.

Write us for any information desired.

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"PIONEER OF HIGH PRICES FOR BUTTER-FAT."



Buy the U. S. Separator and find it an anchor that will keep you from drifting onto the rocks of discouragement and loss. Nothing like it to make Money and save Labor.

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Highest Market Price Paid and Check Sent Promptly for each Shipment.

Please give us a trial. We will please you. Correspondence Solicited.

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References: Kansas National Bank, National Bank of Commerce.

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Registered cattle, all beef breeds, Shorthorns, Herefords, Angus, and Galloway bulls and heifers, singly or in car-loads, at right prices, always sold strictly on their merits and strictly on commission.

Mr. Buyer: These cattle, from 100 to 300, can always be found in our barns in South Omaha. They are consigned to us by the best breeders in America, and you can get a choice of thirty different men's breeding. We always have some choice herd-headers of the very best breeding; have your commission man select one for you if you can not come.

Mr. Breeder: Adopt new methods and consign your registered bulls to us. We will sell them for what they are worth and entirely to your satisfaction. We sold in the last three months over 1000 registered bulls and heifers. Ship us no cattle without first writing us. Our charges are \$10 per head and 30 cents per day for feed and care. We have stall room for 250 head.

On September 1st we received a large consignment from the noted herd of W. D. Platt, of Hamilton, Ontario, both bulls and heifers. This is a chance to get some good ones.

Address all communications to us at Lincoln, Nebraska. WATSON, WOODS BROS. & KELLY CO.

The Poultry Yard.

CONDUCTED BY THOMAS OWEN.

Coming Poultry Shows.

November 26-28, Glasco, John Chase, secretary; C. H. Rhodes, judge.
 November 30-Dec. 2, Clay Center, M. B. Caldwell, secretary; C. H. Rhodes, judge.
 December 3-5, Cottonwood Falls, Jennie C. Warren, secretary; C. H. Rhodes, judge.
 December 9-12, Leavenworth, N. R. Nye, secretary; C. H. Rhodes, judge.
 December 14-16, Fort Scott, Jas. Burton, secretary; C. H. Rhodes, judge.
 December 17-19, Lawrence, John Manwarring, secretary; C. H. Rhodes, judge.
 December 21-24, Wellington, Ellen R. Clayton, secretary; Thos. W. Southard, judge.
 December 28-30, Nortonville, C. D. Stillman, secretary; C. H. Rhodes, judge.
 January 4-9, Wichita, H. P. Schoff, secretary; I. K. Felch, judge.
 January 11-16, State show, Topeka, J. W. F. Hughes, secretary; C. H. Rhodes, W. S. Russell, H. B. Savage and J. J. Atherton, judges.
 January 25-27, Atchison, W. G. H. Frasier, secretary; C. H. Rhodes, judge.
 February 1-3, Manhattan, Geo. C. Wheeler, secretary; C. H. Rhodes, judge.
 February 4-10, Manhattan, Kansas State Agricultural College Poultry Institute, Prof. Geo. C. Wheeler, superintendent; C. H. Rhodes, instructor.
 December 7-12, Newton, R. R. Hobbie, secretary; F. W. Hitchcock, judge.

Utility Fowls.

Many farmers, market poultrymen, and others who jump at conclusions, assert that for practical producers fancy poultry-breeders give egg-production and utility qualities no consideration, seeking only to develop the show points to the highest degree. This is a statement without much foundation.

The American, Asiatic, and Mediterranean breeds are all utility breeds and one of the strong points with true fanciers is to select those with robust constitutions upon which to rely in producing valuable progeny. In the two first-named, certain weights are fixed at which they must arrive to save a discount, and to gain that weight it is necessary that they be strong in constitution and good feeders. In the Mediterranean class size becomes an important factor, those undersized being discounted.

There are very few farmers and market poultrymen who have stock which is capable of reaching the highest development of carcass, unless they

cross two distinct standard breeds, and in no instance have they succeeded in reaching the general average of the fancy breeds. Are Plymouth Rocks of a size to be desired? If so, by what cross can you better them? Breed Light Brahma males on common stock, and while the cross will increase the size, still it will not approach the Plymouth Rock or Wyandotte. The hue and cry is raised because fancy poultry fanciers select their best specimens and fit them for the show-room and in the effort frequently pamper them to an extent which works to their injury as breeders; but if handled and reared judiciously, they are equally as hardy as the common stock of the country. It is a fact that the market poulterer uses crosses from the fancy breeds and by so doing makes the business profitable; and every time he makes a new cross by breeding to the same breed, just so often does he increase the value of his flock. It is not fair to say that a fancy poultry-breeder sacrifices egg-production and weight in flesh to a certain color of feather or a certain type of comb. The aim of all true fanciers is more eggs and more flesh, and a hen of all one color or of two colors blended in proper proportion, will not lay any less eggs on that account than a hen that has all the colors of the rainbow. Neither will a hen that is symmetrical in shape and beautiful to look upon, lay less eggs simply because she is comely.

Poultry-fanciers, when circumscribed for range, do sometimes overcrowd their flocks and by so doing injure and weaken the constitution by unnatural conditions; but give them the range and room they require, and they will be just as hardy, if those with the solid black tails or straight and regular combs are selected for breeders, as they would be if fowls defective in such particulars were chosen. It is safe to say that it takes standard and thoroughbred stock to produce good and marketable fowls, and when it comes to great egg-production, standard-bred fowls must be resorted to. The poultry business throughout the West has developed wonderfully in the last fifteen years, and its start and development is due to the introduction of thoroughbred fowls and the best methods for rearing them. The poultry-fancier has been of great benefit to the egg and fowl industry for he has materially helped in increasing the number of eggs and the weight of the fowls.

Some Good Remedies.

For swelled eye and incipient roup: Sulfate of zinc, $\frac{1}{2}$ grain; sulfate of morphine, $\frac{1}{2}$ grain; rose water, 1 ounce. Put a few drops of this mixture into the eye and rub it on the face two or three times a day till relieved.

For lice: To 1 pound sulfur add 1 dram of carbolic acid. Mix it with a stick and sprinkle it on the back, neck, and fluff of every fowl on the premises. Repeat it every month through the winter, and every two weeks during the summer. Such treatment will banish the lice.

For red mites: They can be destroyed by carefully saturating the perches, boards, and cracks with the following mixture: One gallon coal-oil and two ounces crude carbolic acid. This will kill the mites.

For snuffles: Snuffles or running at the nose is found in all flocks, especially this time of year, and is only the effects of a bad cold, but if not attended to may develop into roup. The nostrils will be encrusted with it, causing the snuffling sound. If caused by exposure, remove the cause by keeping the fowls warm and wash the nostrils with castile soap and water. Pour up the nostrils a few drops of sweet oil. Feed soft food and usually they will come out all right.

For indigestion: Indigestion is common to growing chicks and fowls of the larger varieties, and is indicated by sitting on the ground or standing knock-kneed or by walking or running unevenly or lame, their knee-joints failing to hold them up. Bone-meal in their food will assist in strengthening them; also tincture of iron in their drinking water, enough to color the same to a pale yellow.

For frost bites: If the fowl is discovered before the comb, wattles or toes have thawed out, hold them entirely covered with snow; or if there is no snow, in ice-cold water, until the frost is entirely gone. Then keep them thoroughly oiled with glycerine. Do not allow them to become hard and dry, but keep them soft, and they will lose but a small part of the frozen members, and in many cases the toes and combs can be saved entire. But if the frost has disappeared before remedy is applied, all that can be done will be to keep the frozen parts from drying up with frequent applications of glycerine. Of course it is best to keep the fowls in a good warm house where they are not liable to freeze; but accidents happen sometimes by a door being closed and the fowl shut out for the night. Then use the best remedy for frost bites there is, and that is glycerine.

Poultry Notes.

N. J. SHEPHERD, ELDON, MO.

Chickens should never be allowed to go on the roosts until 10 or 12 weeks old. If allowed to roost too early, their breasts often get crooked and their growth and appearance spoiled.

In breeding fowls, as well as in the production of other animals, it is of great importance that the male used for breeding should be especially choice and as fine a specimen as can be obtained.

Leg weakness in young birds comes from high feeding and forced growth. Giving a supply of bone-meal and ground oyster-shells where they can help themselves will aid materially in preventing such weakness.

There is no breed of fowls, the chicks of which, if well fed all their lives, will not be tender, juicy, and toothsome if killed before they are too old. And there is no breed that will be plump, tender, and fit for the table unless well fed.

The capon has ever been esteemed one of the greatest delicacies, preserving the flavor and tenderness of the chicken with the juicy maturity of age, the flesh yielding a rich and good chyle and without any tendency to inflammation.

The Pekin ducks breed very true and they are of the largest size. Their plumage is a creamy white of a very brilliant and rich tint. They are extraordinary layers, and the young ducklings grow very rapidly, while their feathers rank next to geese feathers in market.

Young birds especially need bone in some form; and when confined to yards they can not obtain it for themselves and it must be supplied to them. They need it to develop good blood, bone, flesh, and feathers. A good plan is to keep a supply where they can help themselves.

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

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

FRANK J. CHENEY.
 Sworn to before me and subscribed in my presence, this 6th day of December, A. D. 1886.
 (SEAL.)

A. W. GLEASON,
 Notary Public.
 Hall's Catarrh Cure is taken internally and acts directly on the blood and mucous surfaces of the system. Send for testimonials, free.
 F. J. CHENEY & Co.,
 Toledo, Ohio.
 Sold by Druggists, 75 cents.
 Hall's Family Pills are the best.



POULTRY BREEDERS' DIRECTORY.

B. C. B. Leghorn Cockerels \$1 each; 6 for \$5; 12 for \$9. H. M. Johnson, Formoso, Jewell County, Kans.

LANGSHAN PULLETS and cockerels for sale; good ones; \$1 each. Mrs. Mary McLaughlin, Elk City, Kans.

THOROUGHbred Rose Comb White and Brown Leghorns, Cornish Indian Game cockerels and pullets, \$1.00 each. Mrs. John Holmhey, Bendena, Doniphan Co., Kans.

FOR SALE—40 rich-colored heavy-feathered Buff Cochins cockerels, pullets and hens at half price, \$1.00 each. H. A. Thomas, Scranton, Kans.

BARRED PLYMOUTH ROCK cockerels from \$1.50 down. Good birds. Write your wants. My birds will please you. Eggs in season. Adam A. Weil, R. F. D. 2, Clay Center, Neb.

S. C. B. LEIGHORNS—Choice cockerels for sale. Eggs in season; \$1 per 15; \$4 per 100. J. A. Kaufman, Acme, Kans.

BARRED PLYMOUTH ROCK roosters, \$1 each. Satisfaction guaranteed. Ethel J. Williams, R. F. D. 2, Williamsburg, Kans.

BLACK LANGSHAN EGGS for sale, 5 cents a piece. Minnie M. Steel, Ridley, Kans.

BARRED ROCKS ONLY—Heavy boned, vigorous stock, unlimited range. Eggs carefully and securely packed. 100, \$4; 15, \$1. Adam A. Weil, Clay Center, Neb.

FOR SALE CHEAP—Pedigreed Scotch Collie pups. W. H. Richards, V. S., Emporia, Kans.

GEM POULTRY FARM has for sale 400 Buff Plymouth Rock chicks, also 100 last year's breeding stock. Prices reasonable. C. W. Peckham, Haven, Kans.

COLLIE PUPS AND B. P. ROCK EGGS—I have combined some of the best Collie blood in America; pups sired by Scotland Bay and such dams as Handome Nellie and Francis W. and others just as good. B. P. Rock eggs from exhibition stock; none better; 15 years' experience with this breed. Eggs \$1.50 per 15. Write your wants. W. B. Williams, Stella, Neb.

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A. H. DUFF, Larned, Kans.

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are truthfully pictured and their actual working told in about 30 of the 80 pages of our new catalogue. The rest of the book gives information about the chicken business. We begin the story in the egg and end it with the marketing of the fowls. There's knowledge which will benefit anyone and may mean dollars to you. Our incubators are driving hens out of business. They work regardless of weather or of seasons. You can count on hatching every fertile egg. Money back if not all we claim. We pay freight. The book is free. Just say "Send Victor Book" and we'll do it. GEO. ERTLE CO., Quincy, Ill.

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The Greatest Pumping Wheel On Earth.
Specially designed for Irrigators and Ranchmen.
Hardened self oiling, ball and roller bearings; gov-
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Patented long-pump stroke.
Also installers of a compressed air water system
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of ear or shelled corn with the
CORN KING
Triple Geared Mill.
Fastest 2 horse sweep made.
Easy running, never chokes.
Burr self sharpening. Fine
burr for flouring wheat if
wanted. Write for circular.
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Machine, equipped with
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"For the good of our order, our country, and
mankind."

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dressed. Papers from Kansas Granges are especial-
ly solicited.

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EXECUTIVE COMMITTEE.

Henry Rhoades..... Gardner
J. T. Lincoln..... Olpe
A. P. Beardon..... McLouth

History of New Lancaster Grange.

H. R. SMITH.

New Lancaster Grange No. 223, was
granted a charter on June 16, 1873.
After holding its regular sessions for a
few years, the grange was disbanded
and its charter was surrendered to the
State secretary. No attempt at reor-
ganization was made until October 9,
1897, when Bro. Tiernan, National or-
ganizer, proceeded to reorganize the
old grange with twenty-five charter
members.

Several meetings were spent in
studying and discussing the objects
and purposes of the Grange, and be-
fore the year closed, twelve others had
enrolled their names as members.

Eight persons were initiated during
the year 1898. During the next year,
the grange struggled very hard for its
existence. Many times the members
met with barely a quorum present, and
the few faithful ones struggled very
hard to keep from disbanding. After
battling against the many obstacles
placed in the way, the members final-
ly succeeded in carrying it through.
A great deal of interest was then
shown, and many names were added to
the list of members.

During the year 1901, this grange
had the honor of having gained a
larger number than any other grange
in the State, having initiated and re-
instated fifty-eight persons during the
year, but this record has been beaten
in 1903, as there have been eighty-nine
names added to the roll of members,
making a total of 182 members at the
present time.

The first sessions of the grange were
held in the hall above the store owned
by W. J. Montgomery, but in order to
have more room it was decided to hold
the meetings in the schoolhouse at
New Lancaster; and on November 18,
1898, the grange met there for the first
time. The grange continued to meet
in the schoolhouse until 1901. On
May 25 of that year, a committee was
appointed to devise ways and means
of procuring a hall for the use of the
grange. After discussing several dif-
ferent plans, it was decided to pur-
chase the Baptist Church at New Lan-
caster. This building is still owned
by the grange and the meetings are
held there at the present time.

During the latter part of the year
1902, a suggestion was made that the
grange should establish a cooperative
store at this place, as the old store
had been burned. This question was
thoroughly discussed, and finally it
was decided that this should be done.
A board of directors was chosen and
they proceeded at once to build a
storeroom. After the building was
completed, many hesitated about put-
ting their money into the organization
as they feared it would fail; but,
thanks to the untiring efforts of sev-
eral members, the necessary money
was subscribed, and preparations be-
gan to start the store as soon as pos-
sible. At the meeting of the board of
directors on Saturday, October 24,
1903, Mr. Bernal A. Barnhill was cho-
sen as manager. The store commenced
business on November 2 with prom-
ises of great success.

The board of directors is composed
of the following persons: Dr. Geo. W.
Potts, president; F. B. Conner, secre-



The Young American Girl.

HOW BEST TO PRESERVE HER
GOOD LOOKS.

THE young girl just blossom-
ing into maidenhood, on
that peculiar border line
between maidenhood and
womanhood, should have
every care. Parents are
often to blame for endan-
gering their daughters' health by allow-
ing them to overwork, allowing them to
attend parties and other places of amuse-
ment and the indulgence of other habits
which tend to excite the nervous system.
There should be a good understanding
both on the parents' part and that of the
young girl, and we can heartily recom-
mend a book called the "Common Sense
Medical Adviser" edited and published
by Dr. R. V. Pierce, at Buffalo, N. Y.,
which can be obtained by sending 31 one-
cent stamps for the cloth-bound, or 21
one-cent stamps for a copy of the paper
edition, which will be sent by express
or mail. The young girl and the young
woman at this time in her life is weight-
ed down by periodical disabilities which
become hard to bear. What is needed
is a tonic for the womanly system.
Something over a third of a century
ago, Dr. R. V. Pierce, the specialist in
woman's diseases, of the Invalids' Hotel
and Surgical Institute, at Buffalo, N. Y.,
hit upon certain roots, herbs and barks,
which, made into a liquid tonic, gave
relief and strength to the womanly
system. During the past thirty-six years
this vegetable compound has sold more
largely than any other medicine intended
only for woman's diseases. It is called
Dr. Pierce's Favorite Prescription. Few
women in the United States have not
heard of its splendid remedial qualities,
for it is a Prescription that can always
be depended upon when women suffer.

Cupid has no place in a girl's heart if
she is nervous and irritable, feels dragged
down, worn out for no reason that she
can think of. In such cases the body is
not sound. The nervousness and other
symptoms are telegraphed all over the
body by the nerves, which is the tele-
graphic system of the human body, be-
cause the weak spot demands attention.
The weak back, dizzy spells and black
circles about the eyes are only symptoms.
Go to the source of the trouble and cor-
rect the irregularity. Stop the drains on
the womanly system and the other symp-
toms will disappear. This can be done
easily and intelligently. So sure of it is
the World's Dispensary Medical Associa-

tion, the proprietors of Dr. Pierce's Fa-
vorite Prescription, that they offer \$500
reward for women who cannot be cured
of leucorrhoea, female weakness, prolapsus
or falling of the womb. All they ask is
a fair and reasonable trial of their means
of cure. Their financial responsibility
is well known to every newspaper pub-
lisher and druggist in the United States.
This wonderful remedy therefore stands
absolutely alone as the only one possessed
of such remarkable curative properties
as would warrant its makers in publish-
ing such a marvelous offer as is above
made in the utmost good faith. It is a
medicine which has stood the test of a
third of a century and numbers its cures
by the thousands.

Mrs. L. A. Steadman, 533 Allen Street,
Appleton, Wis., Grand Worthy Vice-
Templar, Independent Order of Good
Templars, writes: "After much suffer-
ing, and trying a dozen different reme-
dies, I finally started using Dr. Pierce's
Favorite Prescription for inflammation
of womb and ovaries. These troubles
had caused me intense suffering and
pain, and I really did not care whether
I lived or died, for I could not enjoy life,
and it seemed as though there was no
way out of this suffering. However,
after I had taken a few doses of Dr.
Pierce's Favorite Prescription, I really
felt a change, and my heart grew light
for I thought that there was a chance
that my health might be restored to me.
It was in a few months' time. That was
all the time that I had to use this won-
derful medicine before I was restored to
perfect health. It really seemed too good
to be true, but nevertheless it was, for
I have now been without pain for six
months, and gratefully do I acknowl-
edge it."

THE HARM ALCOHOL DOES.

All other compounds intended for
women only are made with alcohol, or
alcohol is a large component—this al-
cohol injures the nerves. The little red
blood corpuscles are shrunken by alco-
hol. Therefore they do harm.

Dr. Pierce's Favorite Prescription was
the first exclusively woman's tonic on
the market. It has sold more largely in
the past third of a century than any
other medicine for women. Do not let
the druggist persuade you to try some
compound that has not had the test of
so many years' success. Every woman
should be careful that the liver is active
and the poisons are not allowed to clog
up the system—get rid of these poisons
by taking a vegetable laxative occa-
sionally—such as Dr. Pierce's Pleasant
Pellets. They do not gripe and will not
harm the most delicate system.

tary; Harvey Hamlin, treasurer; F. H.
Kirts, Reuben Smith, T. J. Lawhead,
J. J. Clark, Geo. W. Hoover, and Thom-
as Haney.

Do you suppose that, with an engine
like this, I could afford to put anything
into the boiler that would make the
machinery run wild!

The Stock Interest

Gossip About Stock.

On November 12, Wm. Ernst & Son, Graft, Neb., sold fifty-seven head of Herefords, making an average of a little less than \$102.

A number of Shorthorn breeders in western Nebraska held a combination sale at Hastings, Neb., on November 11 and made an average on the entire offering, mostly young animals, of \$85.

C. A. Stannard, Emporia, announces his first public sale at Sunny Slope Farm, to be held December 10 and 11, at which time he will sell his entire show herd and seventy-five head of the best young cattle on his farm, making in all 100 head. Further announcements will be made next week.

In a recent letter, Mr. F. H. Schrepel, proprietor of the Cheyenne Valley Stock Farm, Ellinwood, Kans., writes: "My Percheron horses are doing finely since the successful circuit at the fairs where we carried off our share of honors. The mares and colts are quite thrifty and I am looking for a splendid horse trade this fall and winter. I have a lot of inquiries for mares."

C. S. Nevius, Chiles, Kans., breeder of Shorthorn cattle and Poland-China swine, has first-class stock for sale, in fact he will not offer inferior animals for sale. In Poland-Chinas he has thirty-five spring gilts of April farrow weighing up to 200 pounds, of the large, useful type, and about fifteen spring males. He also has a very fine lot of Shorthorn calves that are now ready for buyers.

We would refer our readers to the ad. in Special Want Column of J. W. Ferguson, of Vinewood Park Stock Farm, Topeka, Kans., in which he offers for sale his entire herd of Poland-China sows and gilts. These are fashionably bred and are safe in pig by his herd-boar, Black Chief, sired by the great son of Missouri Black Chief. He is closing out his entire herd and will make very low prices. Write him for full description and prices.

The Rex Stock Food Company, of Omaha, are carrying an advertisement in this paper which it will repay any farmer or hog-raiser to read carefully. They state that hog worms and fever (not cholera), are killing the hogs. Lots of hog-raisers hold this same opinion. They say Rex Hog Remedy cures both of these troubles and makes hogs thrifty and well. Write them to-day for further particulars free. Address Rex Stock Food Company, Department 9, Omaha, Neb.

To show that cattle-breeders have faith in the future of the cattle market, one has only to refer to the sale of Angus cattle at Chicago, November 4, when thirty-seven head belonging to M. A. Judy, of Williamsport, Ind., sold for an average of \$373.10. The top of the sale was paid for a cow, Blackcap 22d, which brought \$1,550, being taken by C. J. Martin, of Cordan, Iowa. The best price paid for a bull was for Ellick, an imported animal, for which F. S. Corkhill, of Fairbury, Ill., gave \$1,000. Bulls averaged \$490, and females \$354.84.

We call special attention to the list of dates claimed for forthcoming sales which appears regularly in this paper. Among the notable Kansas sales is the four days' breeders' combination sale at Wichita, February 2-5, 1904, at which time there will be sold Percheron horses, Shorthorn and Hereford cattle and Poland-China swine. Mr. J. C. Robinson, Topeka, Kans., is manager for the entire aggregation and pending the detailed announcement in the Kansas Farmer later, he will be glad to give any one interested any information regarding the event.

The next Kansas sale of Hereford cattle will be the auction offering of F. J. Faulkner, Marysville, Kans., who will sell forty-one head of pure-bred Herefords at his farm on Wednesday, December 2. This draft includes the herd-bull, Virgil Britain, \$2757, a grandson of Ancient Briton, the World's Fair champion. Part of the herd was sired by him and some of the cows are by Archibald Mac 60922 and a few by Corrector. In addition to the registered Herefords Mr. Faulkner will sell forty head of high grades. For further information and catalogue address F. J. Faulkner, Marysville, Kans.

Geo. W. Null, Odessa, Mo., owner of the Elm Lawn Herd of Poland-Chinas, has his sale announcement in this issue of the Kansas Farmer. Mr. Null's sale offering this year includes three sons of Anderson's Model, the best she ever produced. They are of May farrow and weigh 200 pounds. They were sired by Missouri's Top Chief and he will also be included in the sale. Another choice plum for this sale is Unique, the American Royal prize-winner. These two herd-boars goes in the sale as Mr. Null can use them no longer in his herd. Mr. Null has about seventy head catalogued and hopes to meet all of his old friends and Kansas customers at this sale.

W. B. VanHorn & Son, Lone Star, Kans., held a public sale of Poland-Chinas from the Kanwaka Herd on the 12th inst., which was a very satisfactory sale, considering the distance the farm is located from the railroad. A number of leading breeders were present and others sent mail bids. Mr. C. M. Garver, Abilene, secured two of the plums of the sale at \$40 and \$30 respectively. H. M. Kirkpatrick, Wolcott, secured a choice gilt for \$39, Dietrich & Spaulding, Richmond, got three head; Mr. Munger, Carbondale, two head; W. M. Baston, Benton, Kans., one; Mr. James Mains, Oskaloosa, was one of the best buyers and succeeded in getting six head. Fifty-seven head sold at an average of about \$23. The top price of the sale was \$45 for a sow and \$34 for a boar; the latter went to Doolittle & Son, Sibley, Kans. The demand for boars was quite lively, but Mr. VanHorn thought the best sows sold below their value in many instances.

The direct special attention to the Plainville Breeders' Association's first annual sale, to be held at Plainville, Kans., on

Friday, December 18, 1903. This association was organized during the present year and this, their first annual offering, will comprise select consignments of Shorthorn cattle, Poland-Chinas, Duroc-Jersey and Berkshire swine. The contributors to this sale do not anticipate high prices, although they are putting in stock that will, they hope, make reputation for them as breeders, as they are putting in some of the best individuals of their own breeding. That the offering will be an attractive one is evidenced by the fact that the following well-known breeders are among the contributors to this sale: Dr. J. W. F. Cross, N. F. Shaw, C. G. Cochran & Son, S. R. Tucker, J. W. Tucker, F. A. Dawley, Martin Larson, G. M. Kelley, and H. G. Hanselman. For catalogue or other information address, S. R. Tucker, Secretary, Codel, or N. F. Shaw, Plainville, Kans.

Mrs. C. S. Cross, Emporia, Kans., has demonstrated what an intelligent and enterprising woman can do in making a great success in breeding improved stock. She has achieved an enviable reputation as a breeder of Hereford cattle and Berkshire swine, and to this she has added fine poultry, and at present has for sale a few choice Berkshires, Plymouth Rock cockerels, and turkeys. Mrs. Cross has, with characteristic enterprise, selected the best foundation stock from best-known flocks of the country. The young turkeys offered for sale are perfect as to size and form and markings and the young toms weigh about eighteen pounds. Uncle Sam, the gobber-in-chief, has beautiful plumage, weighed thirty-five pounds at 14 months, and was a prize-winner at the State show last winter. Of Plymouth Rocks, all pullets have been sold, but she will sell a number of choice cockerels from prize-winning strains, so that any of our readers desiring something very choice in the way of pure-bred chickens or turkeys should send their orders to Mrs. Cross, who will give the orders prompt attention.

One of the ideal stock-breeding farms in the vicinity of Topeka is the Springbrook Farm, under the management of David G. Page, whose father, Thomas Page, owns the Mid-Continent Mills, at North Topeka, Kans. This farm is located about five miles northwest of Topeka. Shorthorn cattle and Berkshire swine and farm horses are the class of stock now on hand. The principal class of pure-bred stock, however, is the Large English Berkshire, which is now being advertised in this paper. The stock on hand at present are gilts by Black Robin Hood 66086, by a Berrington Duchess dam tracing to Lord Charming and Duchess. There are other gilts, the produce of Black Girl 66085 and Silver Tips 60th 60687. The older sows in this herd are Royal Empress 43d 70874, Royal Empress 68th 70876, Berrington Duchess 2d 70873, and Silver Tips 64th 70877. The principal herd-boar is Standard Bearer, sired by Model 59622 and out of Hope's Princess 59616, sired by Prince Broadback. It will be observed that the blood lines in this herd represent the most desirable families, hence buyers of the few gilts offered for sale may depend upon getting Berkshires of approved type.

The sale of Shorthorn cattle at Marshfield, Wis., by C. E. Blodgett, of Marshfield, and O. W. Cummings, of Sheffield, Ill., on November 5, was the most successful Shorthorn sale of the year, the forty-eight head sold bringing \$10,265, or an average of \$214, which is by several dollars the highest average made at a Shorthorn sale this year. The cattle were a most excellent lot throughout, the majority of them being Scotch, and the bidding was good throughout. While the attendance was not extra large, everybody present appeared to be bent on buying something, and the fact that nothing sold below \$100 speaks well for the condition and quality of the offering. The top of the sale was \$510, paid by F. W. Harding, of Waukesha, Wis., for the Victoria cow, Victoria of Glenwood 16th, consigned to the sale by Mr. Cummings. J. K. Alexander, of Edinburg, Ill., paid \$500 for 4th Duchess of Gloster, consigned by Mr. Blodgett, and secured a great bargain. C. E. Anderson, of Sherry Wis.; D. H. Syme, Glenwood, Wis.; F. O. Lowden, Oregon, Ill. (who was represented by Herdsman Stanton); McCarthy Bros., of Appleton, Wis.; A. G. Leonard, of Chicago (who was represented by Herdsman Byers); George Welsh, of Ripon, Wis.; R. E. Watts & Son, Miles, Iowa; and L. J. Norris, Minneapolis, Minn., were liberal bidders and carried off many head. The top for bulls was \$405, at which price Duncan Bros., of Wausau, Wis., secured Scottish Goldust, one of Mr. Blodgett's herd-bulls, and made a purchase that they certainly will not regret.

The Shorthorn cattle sale of the season in southwestern Nebraska will be held at the Heath Ranch, two miles south of Republican City, Neb., the day after Thanksgiving, or Friday, November 27, by A. B. & F. A. Heath and A. C. Shallenberger of Alma. This is their fourth annual sale, and you are especially invited to attend this because you should see this celebrated farm and herd, and because they will have something nice and valuable to offer in the eighteen bulls and twenty-two cows and h-lers for sale. It should be of interest to know that the first pure-bred Shorthorns brought to Harlan County, Nebraska, was about twenty-five years ago, by the Heath Brothers. They have been adding to and improving their herd ever since that time, until now they number over seventy-five head, and they are enabled to make an annual consignment at auction sale. They have established a reputation as experienced and careful breeders, and when they make a public sale, everything offered goes for just what is offered, when once listed for sale, and, as a result, there are always some very choice bargains for buyers. Their cattle are all fully acclimated, and everything will be found as represented. Ex-Congressman Shallenberger, of Alma, consigns eight young bulls and eight cows and heifers to this same sale at the Heath Ranch, and several cows will be in calf to the prize-winner at the American Royal Show at Kansas City, Bar None 2d. It is worth something to get a young cow in calf to this grand young bull. If you have not yet secured a sale catalogue, send for it at once, and see the handsome illustrations in it, with full pedigrees and foot-notes. Cols. T. C. Cal-

lahan and John Brennen will auction the sale. Be sure to attend, and remember it is Friday, November 27.

The combination sale of Herefords by the Marshall County Hereford Association, held at Blue Rapids, November 10 and 11, was not characterized with high prices. The depressing influences of low prices for beef cattle and the effects of the disastrous June flood had a tendency to handicap the expected results of this sale. Owing to the fact that too many young animals were not of breeding age, it was quite difficult to realize the values that the offering seemed to warrant. However, on the afternoon of the second day the large crowd in attendance seemed to recover somewhat from the depressing conditions and the bidding was fairly spirited. The prices for both males and females ranged from \$50 to \$150. The top price was \$150 each for two females, both consigned by the Vermillion Hereford Cattle Company and sold to Samuelson Bros., Cleburn, and J. M. Williams, Frankfort. The top price for bulls was \$140, paid for Prince Henry 151580, by West & Wilson, Silver Lake, Kans. The remainder of the list of lucky purchasers at this sale were: D. Nauman, Frankfort; E. E. Woodman, Vermillion; Robt. Dockerty, Waterville; E. W. Preston, Irving; Henry Coleman, Chester, Neb.; J. P. Peterson, Waterville; W. B. Hunt, Blue Rapids; Solt Bros., Barnes; J. M. Tarvin, Blue Rapids; F. J. Faulkner, Waterville; S. F. Paul, Blue Rapids; I. D. Yarlack, Blue Rapids; S. W. Tilley, Irving; F. L. Lindsay, Frankfort; W. Brown and C. Gould, Blue Rapids; F. A. Valene, Cleburn; G. Wall, Irving; A. Borck, Blue Rapids; C. E. Strange, Blue Rapids; Wm. Acker, Vermillion; W. A. Morgan, Dodge City; J. A. Uglow, Ames; Harry Powell, Frankfort; W. A. Hostetter, Blue Rapids; C. E. Roddy, Blue Rapids; A. A. Chambers, Blue Rapids; Cottrell Bros., Irving; M. L. Lindsay, Frankfort; Mrs. R. L. Weeks, Blue Rapids; B. M. Winter, Irving; Wm. Isaacson, Waterville; A. H. Bird, Axtell; Miss Lou Goodwin, Blue Rapids; Herman Anderson, Waterville; Henry Findlay, Blue Rapids; Henry Kaump, Randolph; A. L. Smith, Lost Springs; A. W. Gibson, Blue Rapids; J. A. Boyd, Irving; J. A. Gwin, Waterville.

Retailing at Wholesale Prices.

Readers of this paper have not failed to notice the announcements of the United Mail Order Company of Kansas City in our advertising columns. Many, doubtless, are doing business with them. Those who have not procured the catalogue of this concern, the statement may not be amiss that it is one of the leading mail-order houses of the country. "Retailers of everything at wholesale prices" is the familiar insignia in their advertisements. It requires only a perusal of their catalogue of 500 pages to show how fully they make good the promise. Their plan of doing business is set forth in a nut shell in this announcement in the catalogue: "We employ no flying squadron of high-priced men to solicit sales at your home. We give no discounts. We pay no commissions to people to advise you to buy from us. We make but one price—it's low—it's right—it's your protection. Your price is the same as the middleman's. The correct principle producer to the people." Bargains, countless in number, which seem revolutionary in character when compared with local retail store prices might be taken at random from the great catalogue which is before us. But the few in the company's own advertisement elsewhere will seem as a sufficient index. The opportunity for great saving and satisfactory dealing is beyond question when you deal with a reliable mail-order house. Such a house means the above to be. There are easy means for getting in touch with this concern. Some mail-order houses make charge for their catalogues, this one comes free and prepaid. Readers who do not have it will be serving their interests by writing for it.

Corn King Feed Mill.



A feed-mill of western manufacture, well adapted to the use of western feeders, where there is an abundance of corn and large feeding operations, is the fast grinding Corn King shown in the illustration. It is manufactured by the Corn King Feed Mill Company, of Waterloo, Iowa. It is a sweep mill for two horses, triple-gear. The company's guarantee says that grinding to the same degree of fineness, it will develop a larger capacity than any two-horse sweep-mill on the market. A strong point of difference from other mills is that no additional burrs are needed for fine grinding, as the all-purpose rings, with which it is fitted, do a wide range of work on ear or shelled corn or corn and oats mixed. Its burrs are self sharpening, and will continue doing rapid work without dressing until entirely worn out. The mill is most simple, which makes for it longer life and easy running, the particularly light draft, in proportion to the great amount of grinding done, being one of its strongest features. Time is saved by the feed being delivered underneath in any convenient sized basket one desires to use. It provides for convenient oiling of all bearings without interrupting the work of the mill. The best way to get a good idea of a good mill is to consult the advertisements of the Corn King Company in another column, and write for their illustrated descriptive catalogue.

Record Run to Kansas City.—Wabash Train Makes Trip in Five Hours and Fifty Minutes.

Wabash train No. 9, fast mail between St. Louis and Kansas City, made a record-breaking run from St. Louis to Kansas City Sunday afternoon. The schedule time for starting is 2.20 p. m., and the regular time for the run is seven hours and ten minutes. No. 9 started one hour late, lost twenty minutes on the way and pulled into Kansas City on time, making the run in five hours

New fancy lightings may come for the house, but the lantern must continue to be carried until there's an end of the plain home duties. That's never. Important, then, to get a good lantern.

DIETZ LANTERNS

lead all others in popularity. That's because of convenience in filling, lighting, extinguishing and trimming. Because they are absolutely safe. Because of their clear, bright, steady light. Because they never blow out. Sold by local dealers. Before buying send for our free lantern book to make your choice.

R. E. DIETZ COMPANY,
95 Light St., New York.
Established 1890.

Army

Life Caused Chronic Headaches

Stomach Trouble All His Life

Dr. Miles' Anti-Pain Pills Cured him of Both

As is very frequently found the stomach trouble and headache in the following case came from the same cause. Dr. Miles' Anti-Pain Pills, like all of Dr. Miles' Remedies, are designed to cure the disease, not the symptoms. This readily explains why these sterling medicines can cure such a variety of diseases. There is no remedy, formula or prescription which in any way equals Dr. Miles' Anti-Pain Pills for the speedy cure and relief of headache and kindred ailments. "Up to the age of twenty-three my son was greatly troubled with severe pains in the stomach. After he had served his term of enlistment with the army in the Philippines he came home and was unfit for anything because of terrible headaches. He found that Dr. Miles' Anti-Pain Pills not only relieved him of the headaches, but would prevent an attack if taken in time. He continued their use for some time and to his surprise and delight he found they had cured the stomach trouble also. You may imagine how grateful both he and myself feel to you for the good the Anti-Pain Pills have done him. I may add that I have used your medicines in our family for many years and keep a bottle of Nerveine in the household remedy and all the remedies are just what you recommend them to be. You have my permission to publish this."—Mrs. M. L. Farrar, Walla Walla, Wash.

All druggists sell and guarantee Dr. Miles' Anti-Pain Pills. They are non-laxative; contain no opiates, never sold in bulk, 25 doses, 25 cents. Dr. Miles Medical Co., Elkhart, Ind.

VARICOCELE

A Safe, Painless, Permanent Cure GUARANTEED. 30 years' experience. No money accepted until patient is well. CONSULTATION and valuable BOOK FREE, by mail or at office. DR. C. M. COE, 915 Walnut St., Kansas City, Mo.

HAVING EXPENDED
MILLIONS OF DOLLARS
On Track and New Equipment
...THE...
B. & O. S=W.
...HAS...
A Perfect Track,
The Short Line to Cincinnati.
Through Cars to Louisville.
Observation Parlor Cars.
Dining Cars Meals a la Carte.

3 Fast Daily Trains
to the East

Lowest Rates to New York, with Stop-overs at Washington, Baltimore and Philadelphia.

For additional information ask an Agent, or address,
F. D. GIDERSLEEVE,
Ass't General Passenger Agent, St. Louis,
A. C. GOODRICH,
Traveling Passenger Agent, Kansas City, Mo.

and fifty minutes, five minutes faster than any previous record.

There was a full equipment of a mail car, combination car, chair car and diner. At many places along the route the train showed a speed of seventy miles to the hour, and between Mexico and Montgomery City a mile a minute was reeled off. The distance is twenty-four miles, and it took just twenty-four minutes to make the trip.

The train was in charge of Conductor J. S. Gould. The engineer was George Nelson, and the fireman was Charles Summerville.—St. Louis Republic.

In this issue of the Kansas Farmer we have the advertisement of the Great Western Manure Spreader, something that should appeal with great force to our readers, as it is one of the best spreaders on the market, as will easily be demonstrated to those of our readers who visit the International Live Stock Exposition, Chicago, during the week of November 23 to December 5. It will be on exhibition by Marvin, Smith & Co., at 25 Exchange Avenue, Stock Yards, Chicago, and every visitor to this great stock show should not fail to see the Great Western Manure Spreader.

\$14.50 Round Trip Kansas City or St. Joseph to Chicago.

Via the Great Western Railway. Tickets on sale November 23, 29, and 30, good to return until December 7 on account of the International Live Stock Exposition. For further particulars apply to Geo. W. Lincoln, T. P. A., 7 West 9th St., Kansas City, Mo.

Cheaper than a Cow.

Corley, Iowa, April 25, 1902.

I have used Watkins' Anodyne Liniment last spring for clover bloat on cattle. It cured them in less than fifteen minutes. I recommend it very highly for that purpose, for a dose of liniment is cheaper than a cow.

FRANK BAUER.

THE MARKETS.

Kansas City Live-stock and Grain Markets.

Kansas City, Mo., November 16, 1908.

Chicago has 40,000 cattle to-day and trade there was well-nigh paralyzed. This dullness was carried to other points and fat steers sold 5¢10¢ lower at this market. Receipts amounted to 15,000 head. A string of fairly well finished beefs from Kansas feed-lots brought \$4.50, the top price. Some pretty good ninety-day fed stuff upwards of 1,200 pounds in weight went for \$4 and under. The stock held up very well and an active trade in such cattle resulted, prices holding fully steady. Many sales of grass cows were made at \$1.90@2.45, although the latter price stopped a nicely fattened sort of bovine. The stocker market was steady to a little lower, with a desirable grade of neat weight cattle going at \$3@3.25, while branded stockers could be bought at a range of \$2.80@2.85 for the better kinds. A drove of prime heavy 1,250-pound feeders brought \$3.75, but the ordinary run of thin cattle weighing upwards of 900 pounds sold for \$3.15@3.40. Last week the steer market declined 15¢25¢, while cow and heifer stuff sold some higher in spots.

Hog receipts at this market to-day aggregated 7,500 head and the supply at other points was a little larger than was expected. The market was in good shape and ruled active, although prices were about 5¢ lower than Saturday. Tops brought \$4.90 and bulk of sales ranged at \$4.60@4.87. The supply here last week was 41,800, against 60,000 a year ago. Prices declined 20¢35¢ but the market finished strong. For the first time in over two years, hogs are selling under \$5 and packers have succeeded well in their efforts to bring hogs down from the high perch to which they had ascended right after the drought of 1907. Some traders here are still talking further declines but everybody places \$4.50 as the bottom limit to which hogs will go between now and the first of the year. The sheep market here was strong and active to-day, in spite of a 15¢25¢ decline at Chicago. The local run was far below the demands of killers. Top lambs brought \$5.25 and sheep \$3.75.

Among those selling good cattle here last week were W. A. Scott, Smithville, Mo., feeders at \$4; M. T. Farris, Winchester, Kans., \$5.05; D. C. Bell, Lebanon, Kans., heifers, \$4.85; Walter Kerr, Smithville, Mo., \$4.80; T. O. Olson, Assaria, Kans., \$4.50.

Sheep receipts here last week aggregated 43,400 head, a gain of 13,000 over the preceding week. Fully one-half of the offerings consisted of feeders which left the supply for killers rather moderate. Other markets were higher and the local market followed right in line. Fat sheep put on 15¢25¢ and lambs advanced just about as much. Western aged wethers sold up to \$3.50 and yearlings to \$3.75. Top lambs brought \$5.25, the best price since October 20. Feeding sheep were steady, the range being \$2.90@3.25 for wethers and yearlings. Feeding lambs generally exhibited a weaker feeling, although no decline was noted. They brought \$3.40@3.75. Traders believe that fat sheep will sell well from now until Christmas. The first bunch of fed Western lambs to arrive this season got in last Tuesday. H. Pratt & Son, Lees Summit, Mo., marketed the lambs. They sold for \$5 and went out at \$3.60.

The mule market here last week was as near stagnant as it could be and the week closed with 40 head unsold in first hands. A good class of cotton mules around 15 hands is selling for \$100@115. Horses were easier largely by reason of a poor Eastern demand. Receipts aggregated 1,200 head.

Eggs put on another cent here last week and are now worth 22¢ wholesale. Higher markets east of this point and continued light supplies are responsible for the advance. Spring chickens and hens also sold higher. The turkey market was on the up-and-down order with no decided change either one way or the other. A good inquiry for Thanksgiving birds is looked for the coming week. Hens are worth 7¢; broilers 10¢; turkeys 11¢12¢, those under 6 pounds not wanted; ducks 9¢; geese 50¢75¢; wild ducks \$2@45 per dozen; rabbits 75¢90¢ per dozen; potatoes 62¢72¢.

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.

CATTLE FOR SALE—A small bunch of Short-horn heifers, also two bull calves, choice breeding, and good individuals, good calves at \$50 each. Write, or better come and see them. S. H. Lenhart, Hope, Kans.

A BARGAIN in Red Polled cattle. S. H. Seever, Vassar, Kan.

355 BUYS a registered Jersey heifer, 2 months old, crated f. o. b. here. Choice calf; choice pedigree. Grand dam is now on test at Kansas Experiment Station. Will keep until old enough to ship. Fred Zimmerman, Moray, Kan.

FOR SALE—Nineteen head of Shorthorns, 7 cows, 3 bulls, 2 yearling heifers, 7 calves, of good breeding and fine individuality. Sell all or part. If after a snap, call at farm or address owner. L. W. Webb, Kincaid, Kan.

FOR SALE—Five registered Jersey heifers, 3 years old, all fresh; and a yearling bull. M. S. Babcock, Nortonville, Kans.

FOR SALE—Choice registered Hereford bulls, 8 to 15 months old. Address, or call on A. Johnson, R. R. 2, Clearwater, Kans.

FOR SALE—Four thoroughbred Shorthorn bulls, color red, from 5 to 24 months old. Also a few thoroughbred cows and heifers. For prices write, J. P. Engel, Alden, Rice Co., Kans.

FOR SALE—The imported Shorthorn bull Mark Hanna 127532, also several of his get, serviceable ages. F. H. Foster, Rural Route 6, Lyons, Kans.

FOR SALE—Registered Shorthorns \$50 each. Best of breeding, splendid individuals, cows and heifers bred to Imported Royal Briton, calves and yearlings. Must sell carload or more. Write at once. Also some choice Poland Chinas very cheap. M. C. Hemenway, Hope, Kans.

FOR SALE—Two double standard Polled Durham bulls, one my herd bull three years old, one yearling. A. L. West, Garnett, Kans.

FOR SALE—Guernsey bulls from best registered stock. J. W. Perkins, 423 Altman Building, Kansas City, Mo.

Wheat receipts at Kansas City last week aggregated 1,071 cars against 1,024 cars the foregoing seven days. Oats arrivals were 38 cars and corn 72 cars. Wheat lost a little during the week, largely by reason of heavier receipts in the Northwest and lower foreign markets. The visible supply was also nearly 3,000,000 bushels larger for the week. At the close No. 2 wheat was worth 71¢80¢, No. 4, 60¢70¢; No. 2 corn 38½¢40¢, No. 4, 38¢38½¢; No. 2 oats 34½¢35¢, No. 4 32¢33½¢.

H. A. POWELL.

South St. Joseph Live-stock Market.

South St. Joseph, Mo., November 16, 1908.

Receipts of cattle were not heavy last week and the demand was good from both dressed beef men and order buyers, under which conditions sellers had no trouble in securing strong to 10¢ higher prices for the well-finished grades of all weights and cheap kinds, but the plain, heavy and unfinished offerings sold no more than steady. Cows and heifers were in reduced number and the demand strong all along the line, which caused active trading and 10¢25¢ higher prices. The country demand was better than of late and the movement to the country much freer on each day, which, coupled with reduced supplies, as compared with receipts of late weeks, caused prices for all desirable offerings to advance 10¢15¢, while the commoner grades sold with freedom.

Supplies of hogs displayed a good increase with the previous week, but fell under those of a year ago, which was also true at outside points, but in spite of this the trend of values was lower on almost every day. The quality did not run as good as of late and the average weight showed a big decrease.

Offerings of sheep were small as compared with the demand from all of the killers, offerings being limited to fed natives and Westerns from nearby States. The quota of Western range stock was the smallest of the season. The trend of prices was upward from the start of the week, and the close showed a gain of around 25¢ for both sheep and lambs, natives being quoted lambs going at \$5.50; yearlings, \$4; wethers, \$3.75; ewes, \$3.35.

The Stray List

Week Ending November 5.

Woodson County—J. P. Keley, Clerk.

SOVS—Taken up by C. M. Helstead, in Eminence tp.; (P. O. Yates Center,) October 16, 1908, one black brood sow, with 3 pigs; also one black brood sow, with 4 pigs; about 200 pounds each; valued at \$25.

Week Ending November 12.

Rush County—W. J. Hayes, Clerk.

HORSE—Taken up by O. J. Young, residence ¼ mile west of Alexander, one sorrel horse, white feet and blaze face, 6 years old, weight about 800 pounds.

Linn County—J. A. Cady, Clerk.

HOGS—Taken up by J. W. Butts, of Centerville tp., (P. O. Farlinville,) October 7, 1908, two black hogs, valued at \$14.

Coffey County—W. M. Palen, Clerk.

STEER—Taken up by Frank D. Hartwell, in Le Roy, October 22, 1908, one red and white spotted steer, with white face, T S on both sides, 4 years old, valued at \$25.

Week Ending November 19.

Greenwood County.

COW—Taken up by J. L. Welch, in Fall River tp., Nov. 12, 1908, one red and white cow, seven years old, crop off left ear, and half crop off right ear, branded half moon over dash on left hip, and H over dash on right hip.

Coffey County—Wm. Palen, Clerk.

STEER—Taken up by E. E. Teeple, in Liberty tp. (P. O. Gridley,) one dark red steer, with two small white spots on forehead, about 3 years old, P on left hip, valued at \$35.

Wabunsee County—Simon C. Smith, Clerk.

COWS—Taken up by Mrs. E. Meyer, in Alma tp. (P. O. Alma,) Nov. 3, 1908, one dark red Western cow, age about 6 years, branded D on left side, has 4 months old red bull at side, calf valued at \$5, appraised value \$15; also light red Western cow, branded 1-0 on left side, has notch in left ear, about 6 years old, valued at \$15.

HORSES AND MULES.

FOR SALE OR TRADE—Four black full-blood Percheron stallions, three registered road stallions, two Ma. moth black jacks. All of the stock are good breeders. Will trade for anything but breeding animals. I am going out of the breeding business. Here is a chance for a bargain. H. J. Stevens, Wellington, Kans.

FOR SALE—7-year-old bay pacing mare by Flying Bird. Mare single driven, and one of the finest pieces of horseflesh in Kansas. Chas. W. Barnes, Topeka, Kans.

FOR SALE—Span of large mules, one roadster stallion. Will exchange part for cattle or sheep or colts. For further particulars address, T. J. Kennedy, Osawatie, Kans.

FOR SALE—Cheap, or will trade for cattle, my two black Percheron stallions, both recorded and one is imported, weight 1,700 each. Address me at Carbondale, Kans., P. O. Box 85, Col. W. Q. Hyatt.

FOR SALE—Cheap, a registered Hanablenian stallion, 15 hands, weight 1,300 pounds, 5 years old, sound, and all right. Address G. A. Stites, Hope, Kans.

FOR SALE OR TRADE—Percheron and French Coach stallions, and one imported Shire mare, for good native cows, yearling heifers not bred, or heifer calves. W. H. Richards, V. S., Emporia, Kans.

FOR SALE—The best ¼ Percheron stud colt in Kansas, 28 months old, 1600 pounds, also younger ones of like quality. F. H. Foster, Rural Route 6, Lyons, Kans.

FOR SALE five jacks, one to seven years old, all blacks. One Clydesdale and one Percheron stallion, registered. Would trade jack for mare. J. C. Strong, Moran, Kans.

FOR SALE OR EXCHANGE for sheep or cattle, one imported registered Percheron stallion, black. One black Missouri-bred Jack 3-year-old—will make a large Jack. Can be seen one-half mile south of city limits. J. C. Hentzler, Rural Route No. 6, Topeka, Kans.

WANTED—To buy or trade, a Clydesdale stallion for a span of good mules. H. W. McAfee, Topeka, Kans.

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

SWINE.

FOR SALE—Poland-China sows and gilts; they are bred safe in pig, and fashionably bred; sired by a son of old Chief Tecumseh 2d 9115, and Allerton Tecumseh, out of dams sired by old Black U. S., Chief Tecumseh 2d, Perfect I Know, and others equally well bred. They are fine individuals, and safe in pig by my herd boar, Black Chieftain, who is sired by Missouri's Black Perfection, dam by Chief Tecumseh 2d. These sows have raised me three litters each of very profitable pigs, some of them are show sows, particularly the one out of the old Black U. S. dam, they are as fashionable bred as can be found in any herd, and are safe in pig by one of the finest and most fashionable bred boars in Kansas. I also have spring of 1903 gilts out of above sows, and by Black Chieftain. I am closing out my entire stock interest and will price any one or all very cheap; will also sell my herd boar, a good one, for \$50. Reference, Kansas Farmer, Address J. W. Ferguson, R. F. D. 5, Topeka, Kans.

TWO WELL-BRED HERD BOARS FOR SALE By W. E. Nichols, Sedgwick, Kans.—Young U. S. 2291 S, sired by Hill's Black U. S. 11882 S, he by Old Black U. S. 4299 S. The dam of Young U. S. was Mable 56160 S, she by Shortstop Tecumseh 15922 S, her dam Tecumseh Girl 37766 S. Young U. S. was farrowed September 24, 1899. He is a fine breeder of solid colored, broad backed, heavy hammed, short-faced pigs. T. C. U. S. 2d 30340 S, sired by the noted old T. C. U. S. 41713 S, that was shown in 13 shows, and won 13 first prizes in the state show at Ohio. Eath-r Price his dam was bred by Peter Mcow, Orange City, Iowa. These hogs are not for sale because of any fault of their own, but I cannot use them longer. If you need a first-class reliable sire at the head of your herd, write me at Sedgwick, Kans. W. E. Nichols, breeder of Poland-China hogs.

AUCTIONEER—Booze made twenty-eight sales from July 22 to October 22, 1908. Swine specialist. Write Jim W. Busenbark, Eakridge, Kans.

LARGE ENGLISH BERKSHIRES—Recorded. Three unusually good, six month boar pigs, weigh 200 pounds. Mrs. C. S. Cross, Emporia, Kans.

HOGS FOR SALE—Choice Poland-China boars and sows, none but choice stock shipped. Herd boar Royal Perfection, by Chief Perfection 2d, and Chief Tecumseh 2d. S. H. Lenhart, Hope, Kans.

DUROC-JERSEY BOARS ready for service; pedigree furnished. L. L. Vrooman, Hope, Kans.

FOR SALE—Thoroughbred Duroc-Jersey pigs, 2 months old. H. J. Lane, Hedgewood Place, West Sixth St., Topeka, Kans.

FOR SALE—Three nice sows, coming 2-years old, and several good gilts; pure-bred Large Berkshires—very cheap. O. P. Updegraff, Topeka, Kans.

DUROC-JERSEY SWINE—3 yearling herd boars, fine lot of good males and bred gilts, also pigs in pairs. Pedigrees furnished. Write for prices. M. H. Alberty, Cherokee, Kans.

FOR SALE—O. I. C. pigs both sexes, healthy and thrifty; also one year sows, registered. Satisfaction guaranteed. Asa Chandler, Randolph, Mo.

FOR SALE—Pure bred Duroc-Jersey pigs, April farrow. Some very choice pigs of either sex. F. A. Hill, Durham, Kans.

POULTRY.

WHITE WYANDOTTE COCKERELS for sale, \$1.00 each; no hens or pullets. Mrs. E. F. Ney, Bonner Springs, Kans.

ROSE COME BROWN LEGHORN COCKERELS for sale—\$1 each; 6 for \$5. Convenient shipping point. Orders filled promptly. P. H. Mahon, Route 3, Clyde, Kans.

BARRED PLYMOUTH ROCK COCKERELS and Mammoth Bronze turkeys ready for shipment. Write for prices. Mrs. C. S. Cross, Emporia, Kans.

SEEDS AND PLANTS.

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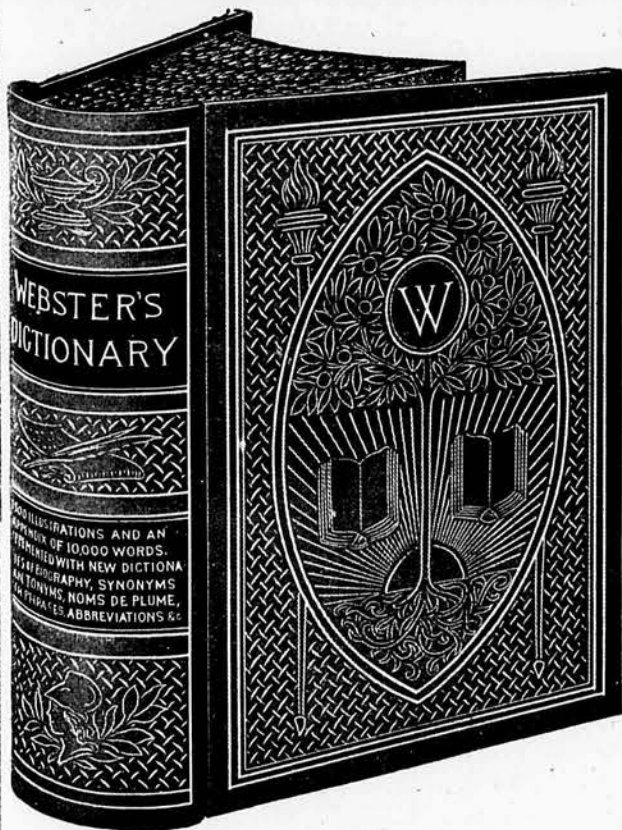
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