



Volume XLIII. Number 10

TOPEKA, KANSAS, MARCH 9, 1905

Established 1863. \$1 a Year

KANSAS FARMER.

Established in 1863.

Published every Thursday by the
KANSAS FARMER CO., - - TOPEKA, KANSASE. B. COWGILL.....President
J. B. McAFEE.....Vice President
D. C. NELLIS.....Secretary and Treasurer

SUBSCRIPTION PRICE: \$1.00 A YEAR

E. B. COWGILL.....Editor
J. D. GRAHAM.....Associate Editor
H. A. HEATH.....Advertising Manager

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

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

Address all communications to

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

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The Kansas Legislature is still in session. It will probably continue during most of this week. A comprehensive view of its work can not be had at this time, but the general impression obtained is favorable.

It is a consummation devoutly to be wished that Kansas may soon have a Legislature possessed of virtue enough to enable it to make it illegal and impossible for any member to apply for or accept a bribe in the shape of a railroad pass for himself, his friend, or his family.

President Roosevelt was inaugurated last Saturday. There was no attempt

at Jeffersonian simplicity; on the contrary the occasion was one of great display. The country's customs are changing. But the sturdy purpose of Mr. Roosevelt to do his whole duty by the people seems to suffer no abatement.

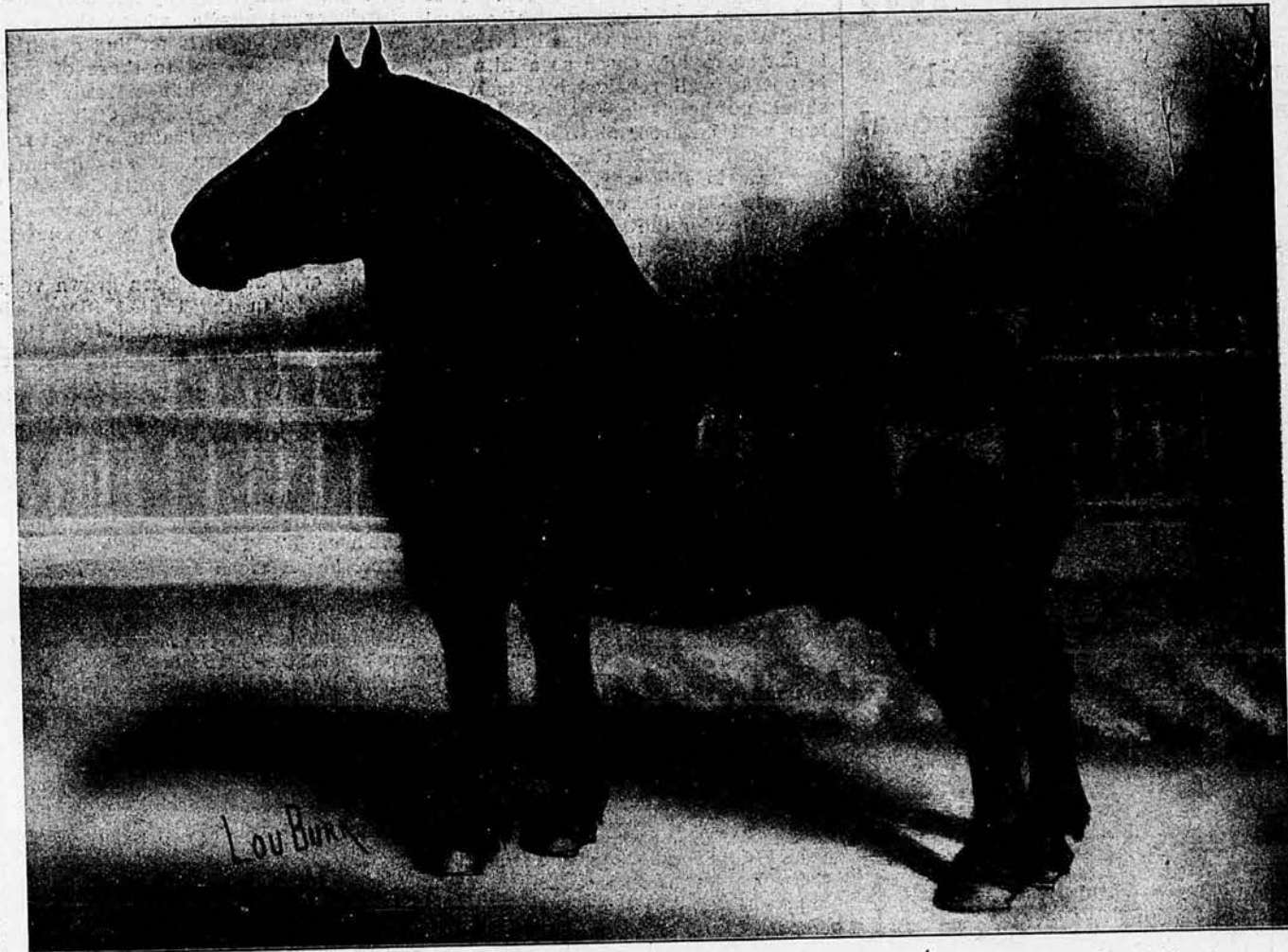
Kansas wheat-fields present a fine appearance. Their strong color denotes health of the plants. The stand in much of the State is good. The pro-

his name. After months of investigation, Mr. Garfield's guileless young men find that the beef-trust people are making ridiculously small profits—smaller by 17 cents per beef than the packers' books show. The conclusion of the public will be that Garfield got plugged information and to this has given his official approval.

Some of those dissatisfied with the results are mean enough to call attention to the statement that Mr. Garfield

their track. Mr. Bristow is from Kansas. If the Administration really wants more of his kind, Kansas will honor drafts for several who depend not upon the luster of their ancestors' names, but upon their own qualifications for responsible work.

That there is a meat trust; that there is an undue margin between prices on the hoof and on the block; and that commercial means of reducing this margin are impotent as



Iams' Fagot (52453) Black Percheron Stallion, 4 Years Old, Weight 2,040 Pounds. One You Read About.
(See page 274)

tection of the snow during the cold weather and the moisture which went into the soil as the snow melted are manifesting their benefits as spring conditions advance.

It has just been announced that to provide for the increased volume of traffic on Rock Island lines, a large amount of new equipment will be delivered, during the month of March, on orders placed several months ago. It is indicative of the industrial and commercial prosperity of Rock Island States that, even before the receipt of the new equipment, it has been found necessary to place another large order for delivery in the early summer.

THE MEAT TRUST REPORT.

The report of Commissioner Garfield, giving the results of his investigations of the meat trust is a humiliatingly disappointing one. Mr. Garfield's appointment to an important public position was justified in the minds of the people on the grounds that he is the son of his father. His official record thus far has added nothing to the credit of

is related by marriage to some of the meat-trust magnates, and to intimate unpleasant thoughts, attributing the the "whitewash" to interests created by this marriage relation.

There is a general conviction that had the investigation been conducted by J. L. Bristow the actual facts would have been divulged and that no appeal for sympathy for the poor packers would have been implied in this report; that he would not have found that the packers' claim that they were making only 99 cents on each animal slaughtered over-stated the case and that they were actually making only 72 cents. This discrepancy alone condemns the report.

Mr. Bristow has been assigned to important work in connection with the Panama Canal. He unearthed so much corruption in his postal investigations and implicated the proteges of so many Senators and Representatives that the demand for his removal from that work became irresistible. Perhaps he can not now be spared from the Panama work. Perhaps the packers would not like to have Bristow on

against this trust, are facts as patent to the people as before the packers got their beautiful coat of Garfield whitewash.

This same official proposes to "investigate" the oil trust. If all trusts look alike to him—as they should—the people of Kansas will have small hope of useful results from his work.

IS STATE SOCIALISM COMING?

The editor of the KANSAS FARMER was asked, a few days ago, by a magazine writer, whether the establishment of a State oil refinery would become a precedent for other steps toward State socialism. This writer was sent to Kansas by an Eastern magazine which has an immense circulation. Kansas is getting much attention on account of her vigorous contest with the robber oil trust. Generally the comments have been commendatory. There is, however, a conservative element which is alarmed at the practical progress towards the application of the theories so taking set

(Continued on page 268.)

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this
paper

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Forest trees, nursery grown and hardy everywhere. All sizes for all purposes at lowest prices. 50 bargain lots, all first class, prepaid, \$1 to \$10 per 100. Catalogue and bargain sheet free. D. Hill, Evergreen Specialist, Dundee, Ill.

Fruitful Trees High in Quality Low in Price

Millions of Fruit and Forest Trees, Apples, Peaches, Cherries, Grapes and Strawberries, R. Mulberry and Black Locust Seedlings at special prices. Freight prepaid on \$10 orders. Guaranteed to reach you fresh and bright. Don't miss our free catalogue.

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It pays to sow Dwarf Essex Rape which has proved to be the most valuable forage plant in existence for Sheep, Hogs or Cattle. Costs only about 35 cents per acre for seed; yields 20 tons per acre. Our seed was grown in Essex, England, and is extra choice. Descriptive circular and sample free if you mention this paper. Ask for copy of our large illustrated catalog of Garden and Farm Seeds. Free for the asking.

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95 Per Cent Strong. Eighteen varieties. Bred and grown by a twenty-year corn breeder, with extensive trade that covers the United States, including your country, who knows from Kansas customers' reports, the kinds that yield heavily and mature well there. \$1.30 per bushel for shelled, \$2.00 per bushel for selected ears, bags free. Cash with order. We will send your money's worth. Catalogue, proof and samples free. Address to-day Corn Breeder, Decatur, Ill.

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NONE LIKE IT

A Square Deal

Shipped on Approval

Diamond Joe's Big White, Iowa Silver Mine white, and Pride of Nishna, Improved Legal Tender and Early Yellow Rose and other leading varieties. Bone Dry and guaranteed to grow. Shipped in the ear or shelled, subject to approval and at farmers prices. Our 116 page catalog, with full descriptions and prices of all Farm, Field, Garden and Flower Seeds. Free if you mention this paper. Write for it today. Address

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We catalogue a new drumhead cabbage which in the government test surpassed all varieties found in this country and Europe. Catalogue free.

J. J. H. GREGORY & SON, Marblehead, Mass.

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Best in the World.

I have been growing plump seeds and selling them on the square. My customers stick. Nobody else sells my quality of seeds at my prices. 1 cent a pkt. and up. Onion seed 50c per lb. All other seeds equally low.

A LARGE LOT OF EXTRA PACKAGES PRESENTED FREE WITH EVERY ORDER.

I want to fill a trial order, large or small, for you. You'll come again. Send your own and neighbor's name and address for big FREE catalogue.

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This Potato Free

This NEW POTATO is just what everyone is looking for. Proven and blight proof, and the earliest on record; nothing can equal it; best quality and smooth, while its yielding qualities are simply marvelous.

4 WEEKS FROM PLANTING. We are raising stock to offer in 1906, but want to test it this year in every section of the country to make good our claims, and we offer one Sample Potato for testing free to anyone enclosing 10c to pay for postage and packing. It will be carefully packed from frost, and it is worth many dollars to those fortunate enough to get one.

Our New Seed Catalogue for 1905 is free and will be sent with every potato. If you enclose address of two families who buy seeds, we will include Free Sample Great Corn Novelty to be offered next year. Send to-day.

FAIRVIEW SEED FARM, Box 651, Rose Hill, N. Y.

BOWSER SWEEP MILLS

Different from all others. Grind Corn with shocks or without. Kaffir in the head and all kinds small grain. 4 and 2 horse sizes. Geared 10 to 1 or 2 to 1. (Also make 7 sizes belt mills.)

G. R. BOWSER CO., SOUTH BEND, IND.

Agriculture

Emmer and Cow-Pea Questions.

How much emmer should be sown per acre and how should a wheat drill be set to sow the right amount? Also how and when should cow-peas be sown for fertilizer, and how much?

I planted six acres of Early Amber cane last season on some light land, following your directions, and got twenty-four bushels of seed per acre, which I thought satisfactory, but cane requires too much labor to head.

Reno County. H. P. GOODELL.

You may use cow-peas as a fertilizer on green manure, sowing them after taking off a grain crop, such as wheat, oats, or barley. We have succeeded in getting a good stand of peas simply by disking the stubble and drilling with the ordinary grain-drill, sowing the peas at the rate of one and one-half bushels per acre, which will require the ordinary grain-drill to be set to sow about two bushels of wheat per acre. The peas may be plowed down late in the fall, or pastured off and left as a cover-crop during the winter. A good crop to follow the grain and cow-peas is corn, Kafir-corn, or some cultivated or spring-planted crop.

You can also use the cow-peas as fertilizer, by taking a full year to grow the crop and cut the crop for hay, or for peas, whichever is desired. Cow-peas make good hay, practically equal to alfalfa in feeding value, but the hay is not so rapidly cured as alfalfa and is not so well relished by stock. It should not be stacked out of doors unless well covered, since it does not shed the rain well. The rotation with cow-peas in this way, would perhaps be more beneficial on some soils than plowing under the green crop. If the soil is lacking in humus, however, plowing down the green peas will be beneficial, although there is always danger that the soil will be left too loose and mellow for the succeeding crop, if a heavy growth of peas be plowed down.

It is also possible to sow the cow-peas in the corn with the last cultivation and use them as a fertilizer crop, in much the same manner as already described when the peas are used as a catch crop after wheat. At this station, however, this method has not been so satisfactory as sowing after wheat. The peas do not start well in the corn and the growth of the vines is usually very slow until after the corn is cut.

Your yield of twenty-four bushels of cane seed per acre was very fair for this season. It is an expensive crop to harvest and thrash, and for grain feed I should prefer Kafir-corn to cane. This fall we thrashed part of our Kafir-corn by running the whole stalk through the thrasher-separator and the results were entirely satisfactory. The fodder, however, was very dry and brittle.

In my judgment, cane is the best crop to grow for forage, where you sow broadcast; very large yields may be obtained in this way, and the fodder makes excellent feed for all kinds of stock.

A. M. TEN Eyck.

Sand Lucerne for Sand Hills.

I send you herewith a clipping, concerning a plant I never heard of before, and write to ask your advice about it.

I see no mention of it in Bulletin No. 121, of the Kansas Station, relating to the reclamation of "sanded" lands.

Some such crop would be a great thing for our sand-hill lands here, in which I am personally interested, but presume it is not adapted to our section, or we would know more about it; or, do we know of it under some other name?

B. F. HOBBS.

Reno County.

Following is the clipping:

"Among the thousands of the Farmers' Voice readers there are doubtless many who have tracts of sandy land upon their farms that are practically worthless for farming purposes which might be made valuable money-makers

were the right crop grown upon them. One of our subscribers, a Chicago business man who has a large farm in Michigan, came to us about fourteen months ago asking our advice regarding a large sandy tract upon his farm from which he could get no crop. We referred the matter to the Agricultural Experiment Station at Champaign, Ill. They advised getting sand lucerne seed from Wernich Seed Co., Milwaukee, Wis. This was done.

"Our subscriber reports a most satisfactory result from the sowing. He has a magnificent crop of forage. 'Alfalfa' he calls it. He is an enthusiastic advocate of sand lucerne for a crop on sandy wastes. The success he has had with it warrants us in advising others of our readers who own sand banks or sandy wastes to try it this year."

"Sand lucerne" (Medicago media), is a perennial leguminous plant, resembling alfalfa—in fact it belongs to the same group or family, the botanical name of alfalfa being Medicago sativa.

Personally I know very little of this plant, never having grown the crop. The Michigan Experiment Station has published a bulletin, No. 198, on Sand Lucerne, in which Professor Towar speaks very highly of it as a crop well adapted for growing on high, sandy soil without irrigation.

It is a very deep-rooting plant and is capable of producing four crops of hay annually at the Michigan Experiment Station. It is probably not so good a producer as alfalfa, where that crop will succeed, and its feeding qualities are not quite equal to those of ordinary lucerne. This advantage is claimed for it, however, that it can be used for pasture for cattle without any danger of producing bloat. Perhaps, however, the plant should be tested further along this line before the above statement could be absolutely confirmed.

This crop has not been grown very extensively in the United States although it was introduced into New York State as early as 1820, and was grown in California more than thirty years ago.

"In appearance and behavior the difference between the sand lucerne and alfalfa is so very slight that only an expert botanist could note the botanical characteristics which distinguish each." The sand lucerne, however, has a more spreading habit of growth than alfalfa, and while the flowers of the alfalfa are bluish or violet purple, those of the sand lucerne are bluish purple to lemon yellow, with many intermediate shades. By some botanists sand lucerne is considered a hybrid between alfalfa and yellow lucerne, which is botanically known as Medicago falcata. The last named species is probably inferior to the Medicago media, although the latter is recommended for growing on "very light and calcareous soils."

I quote the following from Bulletin No. 198, mentioned above:

"The best seedings are obtained by sowing alone, on well prepared ground, in early May, using about fifteen pounds of seed per acre. No crop is expected the first year, but two or three mowings with the knives set high to destroy weeds is advisable.

"The strength and productiveness of the plant improves with age, and one good seeding ought to last many years. It withstands the severe winter climate of Michigan when grown on dry, sandy land. The tests on low and heavy clay lands are not yet completed. To make the best quality of hay it should be cut as soon as the blossoms appear, and in curing it should be handled in the field as little and quickly as possible, to avoid loss of leaves.

"The yield of cured hay per acre in 1901 from seeding made in 1897 was as follows:

"June 18, 4,293 pounds; July 13, 4,350 pounds; August 14, 3,538 pounds; October 1, 1,638 pounds; total, 13,839 pounds. This plot of sandy soil produced in 1898 three crops of cured hay, total, 6,800 pounds. In 1899, four crops, 10,580 pounds, and in 1900, four crops, 12,310 pounds. The land had received

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for all time is the
Metal Wheel.
We make them in all sizes and varieties, TO FIT ANY AXLE. Any height, any width of tire desired. Our wheels are either direct or stagger spoke. Can FIT YOUR WAGON perfectly without change.
NO BREAKING DOWN.
No drying out. No resetting tires. Cheap because they endure. Send for catalogue and prices. Free upon request.
Electric Wheel Co.
Box 46 Quincy, Ill.

PEACH and other fruit trees at wholesale prices. Circular free.
R. S. JOHNSTON, Box 17, Stockley, Del.

STAR best by Test—75 YEARS. We WANT MORE SALESMEN. **PAY CASH** Weekly.
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ALFALFA New crop bright clean, vital seed. Write for price.
SEED GEO. H. MACK & CO., Garden City, Kans.

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ONLY \$2 PER 1000. 30 varieties to select from.
TWENTIETH CENTURY FRUIT FARM
Atlantic, Iowa.

HAVE YOU GOT A DOLLAR
25 Grafted Apple Trees for \$1. Other Hardy Trees 25 Budded Peach Trees for \$1 and vines very cheap. A 50 Concord Grape Vines for \$1 due bill good for \$5c and catalog free. Write for it. We pay freight on \$10.00 orders.
FAIRBURY NURSERIES, Box 1, Fairbury, Neb.

HEALTHY TREES Honest in quality. Grafted apples 4 c. Budded Peaches, 4c; Budded Cherries, 15c each; good varieties. Concord Grapes, \$2 per 100; Ash, B. and H. Locust, low price; 1000 Rus. Mulberry \$1. We pay freight. Catalog free. Galbraith Nurseries, Box 32, Fairbury, Neb.

TREES THAT GROW
Hardy varieties; yield big crops. Grafted Apple, 45c; Budded Peach, 35c; Black Locust, Seedlings, \$1 per 1000; Concord Grapes, \$2 per 100. We pay the freight. Catalog, English or German, free.
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Box 9, Beatrice, Neb.

MISS LIPPINCOTT'S LOWER SEEDS
Nasturtiums, 20 Varieties
Royal Show Fanny, 100 Colors
Sweet Peas, 40 Varieties
Astors, Mixed, all kinds
These Four Packets (25c value) for 8c and names of two flower loving friends.
My 18th annual catalog and book, "Floral Culture," FREE.
MISS C. H. LIPPINCOTT,
Minneapolis, Minn.

GUARANTEED NURSERY STOCK AT WHOLESALE

We have a heavy surplus of all kinds of choice nursery stock to offer for spring. Send for our "Wholesale Prices." We will save you money. We guarantee every order.

HART PIONEER NURSERIES,
Box F, Fort Scott, Kans.

TREES

OF ALL KINDS. Save agent's commission of 40 per cent by ordering direct from us at wholesale prices.

BIG DISCOUNTS OFFERED YOU
See price list, send for it now. Certificate of genuineness furnished that our stock is TRUE TO NAME. Satisfaction guaranteed. Address

WICHITA NURSERY, Box B, Wichita, Kas

SEED POTATOES

PURE EARLY OHIOS
Farmers and merchants supplied by bushe or carlot. Write for prices.

H. C. BOCKOVEN, Clark, South Dak.

Vaughan's Twenty-Eighth Annual Catalogue

Covering the four great departments of Gardening Mailed FREE to all buyers of Garden Seeds, Flower Seeds, Greenhouse Plants, Shrubs and Hardy Plants, Pedigree Seed Corn, Oats, Potatoes. Two Grand Prizes and 20 Gold and Silver Medals Awarded Vaughan at St. Louis. **WRITE NOW.**

Vaughan's Seed Store
84-86 RANDOLPH ST. CHICAGO.

PEDIGREE BARLEY SEED

Bred for yield and quality for 100 years. Write today for circulars and prices.

COOK'S BROOKMONT FARM,
Box 13, Odebolt, Iowa.

no fertilizer of any kind since the seed was sown.

"The analysis of the 1901 crop shows it to contain 80.56 per cent dry matter, and digestible nutrients as follows: 11.12 per cent protein; 31.13 per cent carbohydrates, and 1.01 per cent ether extract. Or the entire crop giving per acre, 1,529 pounds of protein, 4,307 carbohydrates, and 140 pounds of ether extract as digestible nutrients determined by employing the coefficient of digestibility for alfalfa. The nutritive ratio of the hay produced is 1:3.

"The fertilizing analysis of the dry hay as determined by the average results of the four cuttings is 2.39 per cent nitrogen; 0.45 per cent phosphoric acid, and 3.08 per cent potash, an acre producing 330 pounds of nitrogen, 62 pounds of phosphoric acid and 426 pounds of potash.

"As green forage, hay, and pasture, its close resemblance to common alfalfa argues for it all that is claimed for the latter. Attaining mature growth early in June, one can easily manage it for a continuous soiling crop throughout the growing season. As hay it is relished by all farm animals, its high protein content suggesting it as a substitute for part of the grain ration. As a pasture crop, one trial with sheep showed it capable of furnishing a liberal supply of feed throughout the season, and that the plant was able to withstand severe pasturing. Further trial is necessary to determine its true pasture value in this State.

"Attempts to grow the seed in this State have thus far proved unsuccessful. Favorable reports from experimenters have been received from 16 counties. Unfavorable reports have been received from experimenters in 14 counties.

"Owing to the high price of the seed, the time required to secure a good seeding, the increased growth and vigor of the plants that come with age and the difficulty with which a lucerne sod is plowed, it is recommended as a permanent meadow only, although numerous experiments go to show that it is a valuable fertilizing crop."

It is possible that this crop may be successfully grown on the sand-hill lands which you mention. I think probably the crop has never been tried in your part of the State. It has never been tested at this station, unless in a very small way of which no record was made.

It would be a good plan for you to secure a little seed and try it in an experimental way. I do not find the seed advertised in catalogues of our Kansas seed companies, but doubtless you can secure it from the company named in the Farmers' Voice article. I shall plan to sow a little of it at this station this season. A. M. TENEYCK.

Corn for Silos.

Will you kindly answer the following questions: I am going to put up two silos of about 100 tons capacity and desire to fill them with corn.

1. Is there a special variety of corn for this purpose?
2. What is the name of it, and where can it be bought?
3. When should it be planted to get the best results?
4. Will it pay to put up silos and get machinery to fill them?

I have no pasture, and figure on starting a dairy. LOUIS GRAGERT. Shawnee County.

The varieties of corn which grow well and mature in your section are doubtless as well adapted for putting in the silo as any other. The seedsmen advertise so-called silage corns. These are often Southern varieties which make a very large stalk growth, but produce fodder and silage of a comparatively poor quality. Some of the varieties of sweet-corn are also recommended for silage planting. However, since the sugar in green fodder is all practically destroyed in the silo, this particular quality of sweet-corn would not seem to be of any advantage, although the finer growth of stalks with abundance of foliage and numerous ears might make the larger and later maturing varieties of sweet-corn excellent for silage use.

Where experiments have been made

in testing varieties of corn for silage purposes, the results have uniformly favored the standard varieties of corn which grow and mature well in the locality where the tests are made. Generally speaking, a good silage corn should be a good fodder corn; that is, rather leafy, not too coarse in stalk growth, and well eared.

Corn may be planted for siloing any time during the corn-planting season, and even to a later date than would usually be considered safe to plant corn for grain production.

The best stage for putting green corn into a silo is just about the time a large part of the ears are glazing, and when some of the ears are still in the milk. Siloed earlier it gives a watered silage of less feeding value. Corn should be put into the silo, however, before frost.

It would seem to me that under the conditions which you state, a silo would almost be a necessity, in order that you may successfully carry on a dairy business. The advantages of the silo have been much written upon and discussed, and in the dairy business I think there is but little question that a silo will pay, and pay well, especially under the conditions of insufficient pasture, which you mention.

For further information on the subject of silos and silage I refer you to a little pamphlet published by the Silver Manufacturing Company, Salem, Ohio, a copy of which I believe you can secure free by sending for it. Good books on the subject are: "Soiling Crops and the Silo," by Thomas Shaw, and "Ensilage and Silos," by Manley Miles, published by the Orange-Judd Co., New York City.

A. M. TENEYCK.

Farmers who know how to produce at a relatively low cost are always at the head of the procession.

A Necessary Article in the Stable.

Harrowsmith, Ont., November 16, 1904. Dr. B. J. Kendall Co., Enosburg Falls, Vt. Gentlemen:—I have used your Kendall's Spavin Cure and found it a very necessary article in the stable. Please send me a copy of your "Treatise on the Horse and His Diseases," as I have a horse with splint which I wish to treat.

Very truly yours, H. A. COOK.

THE OAT WONDER.



SALZER'S NATIONAL OATS

Yea, farmers of America, lend me your ears, while I chant the merits of this new Oat Novelty. It is positively the most wonderful Oat on earth. Editors, Agricultural Writers, Institute Orators all talk and write about this new Oat. It yielded in Wis. 156 bu., in Ohio 187 bu., in Mich. 231 bu., in Mo. 255 bu., and in N. D. 310 bu. per acre, during 1904, and in 1905 you can grow just as easily 300 bu. per acre of SALZER'S NATIONAL OATS, as we can. Your land is just as good, just as rich and you are just as good a farmer as we are. We hope you will try this oat in 1905, and then sell same for seed to your neighbors at a fancy price, next fall.

MACARONI WHEAT

Yielded for thousands of farmers in 1904, scattered all over America, from 30 to 80 bu. per acre of as fine a wheat as the sun shines on. It does well on arid, dry lands, as also on rich farm lands. It is the only wheat that laughs at droughts and scoffs at Black Rust—that terrible scourge. It's rust proof!

Speltz or Emmer,

80 Bu. per Acre.

Wonderful Speltz, marvelous Speltz, profitable Speltz, the farmer's friend. Flourishing everywhere and yielding 80 bu. of grain and 4 tons of splendid straw hay per acre besides.

Home Builder Corn.

Was named because 50 acres in 1902 produced so bountifully that it built and paid for a beautiful home. See Salzer's catalog. It is the biggest eared early and heaviest yielding Yellow Dent Corn we know. Yields 2 to 300 bu. per acre.

Billion Dollar Grass and Teosinte.

A noble pair. Billion Dollar Grass, the most talked of grass on earth, makes 14 tons of fine hay per acre, while Teosinte astonishes and startles you with 80 tons of green food per acre, rich in sugar and milk and food values.

Potatoes—736 Bu. per Acre.

The Editor of the Rural New Yorker proclaimed to the world that Salzer's Early Wisconsin Potato yielded for him 736 bu. per acre. That pays!

ABSOLUTELY FREE

If you will send us the accurate address of three wide awake farmers, to whom we can write, giving your name as reference, so that we can mail to them our great plant and seed catalog, we will send to you free of all cost, our magnificent 140-page catalog, and a package of

EGYPTIAN CLOVER (with full culture directions).

coming from the highlands of Egypt, the land of the Pharaohs; the Sphinx and the Pyramids, the land of luxuriant verdure and prodigious growths. This Clover will astonish you. You may send the three names on a postal card, with full address, and be sure to give your name and address correctly when sending the three names. When writing us be sure and mention name of this paper.

JOHN A. SALZER SEED CO. LACROSSE WIS.

When writing to Salzer be sure to mention this paper,—Editor.

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SEED CORN

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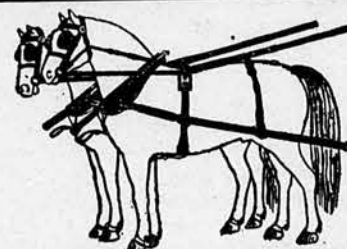


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Various sizes for plantation, field or garden; for two rows or one row—for three horses, two horses or one horse. "Kansas State Experiment Station's Test for 1904: Deep shovel cultivation yield 50 1/2 bu. corn per acre; shallow surface cultivators, 53 1/2 bu. per acre. FREE treatise on Surface Cultivation. Introductory prices where we have no agents.

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beans, beets, cabbage, carrots, parsnips, peas, strawberries, Garden

Horticulture

Transplanting Evergreens.

I this winter transplanted a number of large red cedars. They were six inches through at the ground and about 15 feet high. They were taken up with a block of frozen earth, 4½ by 4½ by 1½ feet and planted in holes dug 6 inches deeper and 18 inches larger each way than the earth about the tree. They were planted on slightly sloping ground and fixed so they might collect and hold several barrels of water about each tree. They will be carefully cultivated and a dust mulch kept on the ground about them during the summer. The object of this letter is to learn what would be the best treatment for these trees during the coming summer. My impression is that they may be cared for in such a way as to secure about their normal growth. Would not a liberal mulch of alfalfa manure on the surface of the ground (leaving a space of some 3 feet on every side of the tree, free from manure) be beneficial, since the ground about the trees will collect and hold a liberal amount of water?

I also removed and transplanted a number of red elms of the same size in the same manner. These trees have been collecting the waters from the melting snows this winter and already the ground about the trees has taken up a vast amount of water, apparently taking the water more freely as the soil becomes more moist.

ELLSWORTH McMANIS.

Norton County.

Personally I have never transplanted such large evergreens. It is often done here. Your method of transplanting is all right. You have firmed the ground well about the trees and braced well. I usually tamp my evergreens as I do a post.

The reason so many make a failure in planting evergreens is because of the fact that the evergreen is unlike the other trees in its sap. The roots of an evergreen should always be kept well covered so as to exclude the air from the roots, because the sap is largely composed of rosin which, drying, can not be assimilated by water. My custom is to always cover the roots as soon as dug, wrapping the roots in damp cloths if only an hour exposed. If this advice is followed and the trees planted and well firmed and stayed, there is no more danger in planting evergreens than in a deciduous tree.

I think, however, you made one mistake and that is in the catch basins about your trees. Will not the ground become so softened that it will fail to prevent the trees from swaying with the wind, thereby loosening the roots of your trees? I would level up and mulch with coarse hay or straw.

Avoid manure in the planting of trees. I would recommend the same treatment for your elms. But why, oh why, did you plant the red variety? For shade, beauty, and everything but firewood the white is way ahead of the red.

F. HOLSINGER.

President State Horticultural Society.

Successful Fruit Culture.

Here is a book that is a practical guide to the cultivation and propagation of fruits. It is by Samuel T. Maynard, formerly professor of horticulture at the Massachusetts Agricultural College, and is written from the standpoint of the practical fruit-grower, who is striving to make his business profitable by growing the best fruits at the least cost. It is up-to-date in every particular, and covers the entire practice of fruit culture. It gives in plain language descriptions of such varieties as are most in demand in our markets and the methods of culture practiced with success in the different sections of the country.

Separate chapters are devoted to the apple, pear, peach, apricot and nectarine, plum, cherry, quince, mulberry, grape, blackberry, raspberry, cranberry, blueberry, huckleberry, sub-tropical fruits, propagation of fruit-trees and plants, fruit-growing under

glass, etc. The chapter on the apple is particularly comprehensive and complete, forming a monograph in itself. It treats very fully on the soil best suited to its growth, trees for an orchard, digging the holes, preparing the trees for planting, establishing the head, time for planting, turf culture, green manuring or cover-crops, mulching, pruning, thinning fruit, age of bearing, re-grafting old trees, varieties, gathering apples, assorting apples, packages and packing, marketing apples, storing apples, cold-storage houses, etc. With like thoroughness the other kinds of fruits are discussed.

The chapter on forcing peaches, grapes, strawberries and other fruits describes the most modern and successful methods of the present day, and is the most recent practical treatise on this important industry.

There is a chapter on those insect pests found most on fruit-trees and plants, with remedies for the same and another on fungous diseases.

It is illustrated, 5 by 7 inches, 265 pages, cloth. Price, postpaid, \$1. Orange Judd Company, New York.

Varieties of Fruit for Pratt County.

EDITOR KANSAS FARMER:—Will you, through the KANSAS FARMER, tell me the best varieties of fruit for upland in Pratt County? I want cherries, strawberries, raspberries, and other small fruit. I can irrigate some.

Pratt County. J. A. BASS.

It is always well to investigate the orchards in your locality and ascertain what varieties have been most successful.

Of the cherries, Early Richmond, Late Richmond, Mountmorency, and English Morella have been successful in almost every locality in the State.

Strawberries vary so much in different soils and locations, that it is well for a beginner to plant a number of varieties and then select the best. I would suggest, Beder Wood, Clyde, Captain Jack, Excelsior, Gandy, Splendid, Senator Dunlap, and Sample as being all profitable sorts. Of the imperfect sorts Warfield, Haverland, Bubach, and the Crescent for an early one, would make a good list.

For raspberries, of the blacks I would suggest Kansas, Cumberland, and Nemaha; of the reds or purples, Thwack, Turner, and Cardinal.

Of the blackberries, Early Harvest, Snyder, Eldorado, and Mercereau.

Blueberries, Lucretia and Austin.

Of the gooseberries, Downing and Houghton are standard sorts.

ALBERT DICKENS.

Planting Locust Seed.

EDITOR KANSAS FARMER:—I want to plant some locust seed. I picked the seed last fall and kept it dry all winter and it never froze. Will it have to be soaked in cold water or in hot water, or can I plant it as it is? Please state when I should plant it.

I have some coffee bean seed. How must I plant it and when?

I want to make a hotbed this spring. How and when shall I make it?

Rice County. F. WINTER.

We have had very good success by soaking the locust seed in hot water. If a quantity is to be treated, we pour boiling water on the seeds and let them stand a day or two; if they do not begin to swell by that time we treat again but with water at about 180°.

They should be planted as soon as they begin to swell noticeably. If planted without soaking in hot water they should be planted in the fall and a large proportion of the seeds will not grow until the second season. I would not advise planting until the ground is well warmed.

Coffee-bean seed may be treated the same as the locust.

For hotbed plans see KANSAS FARMER of February 16.

ALBERT DICKENS.

When to Transplant Cabbage.

EDITOR KANSAS FARMER:—Please tell me when early cabbage should be transplanted.

RICHARD YOXALL.

Wallace County.

If your plants are growing in the hotbed or box in the house, it would be well to arrange a cold frame

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Our Alfalfa Seed Exhibit won the Highest Award at St. Louis Exposition, in competition with all Alfalfa Seed producing countries of Europe and the United States. We also handle Macaroni, Wheat, Cane, Kafir-Corn, Jerusalem corn, and other farm seeds. Write us for prices on carloads or bushel lots.

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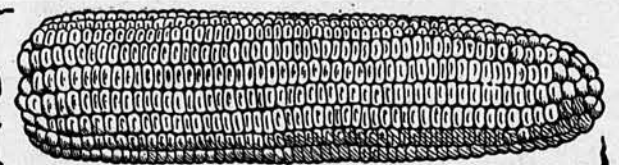
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Direct from the grower—scientifically bred—naturally cured and so selected as to produce a full even crop of corn. Nubbins and half-filled ears are scarce where you plant VANSANT'S SEED CORN. Our Seed Corn is GUARANTEED to grow where any corn will grow. It has the highest germinating power. If you want full weight on the market, or profit in the feed yard, we have seed corn that will produce it. CATALOGUE FREE. Prompt attention to orders. Send orders early.

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The farmer who wants to reap big crops instead of disappointment, who wants sure to grow farm seeds, should send today for our big 21st annual seed catalogue. Our farm seeds have earned the name of

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Do you change your Seed Corn and plant Pure Bred varieties, or are you still in the same old rut, planting the same corn on your farm year after year? Every year thousands of farmers are finding that they can increase their yield from 5 to 20 bushels per acre by planting Armstrong's Pure Bred, Fire Dried varieties. Our catalogue will show you why this is, and how you can do the same thing. For the next 30 days we are going to send four large packages of Pure Bred Seed Corn, FREE, to every farmer who answers this advertisement. Send us your name and address on postal card TODAY. Don't wait until tomorrow. Send your neighbors' names, too; we want to send them free catalog and samples. Write. Write now—today. Address, Drawer 14.

J. B. ARMSTRONG & SONS, Shenandoah, Ia.



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Out From the Northwest it has Come at Last— THE GUARANTEED APPLE! "The Minnetonka Apple"

which for the first time in the history of Horticulture bears a Nursery Guarantee is propagated, owned and controlled by

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distinguished for exclusive productions, are the most Northern in America. This latest triumph of apple culture, the pride of the State of Minnesota, is named after one of her beautiful silvery lakes, "Minnetonka." The fruit is very large; flesh-tender, crisp, and yields prolifically in the most rigorous climate where all others fail. Season late, keeping two months longer than the well-known "Wealthy." Hardy as an Oak.

We Guarantee every tree of "The Minnetonka" to produce a bushel of fruit, and will replace, free of charge, every tree that dies before this result is obtained.

PRICES—4 to 5 foot trees, 75 cents each; 5 for \$2; 6 for \$3; 12 for \$6; by express or freight. Mail order size—one year old, 40 cents each; 5 for \$1; 6 for \$1.75; 12 for \$3 postpaid.

Every owner of a home should have one of more of "The Minnetonka," pride of the Northwest. Order today.

Free Catalogue of Seeds, Trees, Plants, etc.

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Mayfield Nurseries—Most Northern in America.



(which is only a hotbed without the heat), and transplant the cabbages to that as soon as they have four to six leaves. The advantage of this will be to give an opportunity to set the plants at such distances, usually about four inches each way, that they may develop strong, stocky plants, and to prevent their becoming "long-legged" as is the case when grown too long in the hotbed or seed-box. By proper ventilation and the removal of the sash as the weather warms, plants may be sufficiently hardened to be set in the field early in April.

For very early cabbages we have succeeded well by potting the plants, using three-inch pots. By this method they may be taken to the cold frame and hardened well, and may be set directly from the pots to the ground, thereby insuring a quick growth without check.

ALBERT DICKENS.

Missouri Fruit Report for February.

Reports from three hundred cards sent out show that the peach crop, as a crop, is killed by the severe cold of February 12-13. Reports show that the thermometer indicated in different parts of the State from 18° to 32° below zero—a temperature which will generally kill peach buds.

While it may be possible that special localities and protected situations may have a few peaches, yet the great bulk of the peach buds are dead.

Raspberries are injured somewhat and in some cases the blackberry canes also, so that we can not expect a large crop of these two fruits.

The plum and cherry are not badly injured, so that we may expect a crop unless killed by late frost.

Pear buds are injured to some extent, and this will cut the crop short.

The apple, hardy varieties of grape and the strawberry crop are not injured to any extent by the severe cold, so that we may expect a good crop unless late spring frosts interfere.

WHAT TO DO.

In case of the peach-trees, it would be best to cut back into two- or three-year-old wood. Cut back below where the cut was made last year, so as to take off the top growth, and thus induce a new growth, which will be in good shape for bearing the following year. The trees will thus form a new head and renew their vigor. If the wood is badly discolored then cut back more severely, getting back into the two- or three- or four-year-old wood, as the age and condition of the tree would indicate.

In some instances we may find the apple, plum or cherry trees having the bark split on the bodies. If such be the case, cover the split with grafting wax, then wrap the trees lightly with old cloths or gunny-sack, so as to keep the air out.

If the bark is loosened entirely around the tree, it will likely die from the effects of the freeze; but in most instances it is only a split of the wood and bark, and the above treatment is the best means of helping the tree to recover.

Raspberry and blackberry canes should be cut back more closely than usual.

Pears and plum trees should be cut back if the wood is discolored, but not so severely as the peach trees.

The strawberry vines were injured somewhat by the dry fall of 1904, and the probabilities are that the crop will not be as abundant as last year.

L. A. GOODMAN, Sec'y.

Kansas City, Mo.

Farm Notes.

Watch the growing colts feet. Bad feet often ruin the value of an otherwise valuable horse.

Under average conditions you cannot increase your products without increasing your expenses; but ordinarily production increases at a faster rate than expenses increase. Hence the greater profit in good farming.

To make the most out of the pastures and to lessen the waste it is best to divide and have two pastures, according to the kinds of stock kept so that they can be changed from one to another as may be best for their growth and thrift.

Harvester Talks to Farmers—No. 1.

A Series of Personal Talks to the Grain and Grass Growing Farmers of America.



WHEN you come to harvest your grain or grass you want to have at hand, ready for use, a harvesting machine upon which you can put every possible dependence.

Naturally, with a crop before you that won't wait for cutting, you want to feel perfectly safe about your harvesting machines.

You don't want an experiment nor a "may-be-so;" you can't afford to run a risk.

We have purchased this space from the publisher of this paper, for the purpose of letting in a little light on the harvesting machine question.

In a series of talks we intend to show you how you can get a harvesting machine which you can know will bring you through the harvest in good shape, without loss of time, without delays, and without trials of temper.

We want to point out, from the farmer's view, the advantages of certain machines, telling in every case the why and giving the reasons behind every statement we make.

This is an advertisement, but every word in it is true—and we prove it.

It means more to your pocket-book than it does to ours.

Since the invention of the modern grain harvester and self-binder, more than a hundred different machines of various styles and types have been put on the market.

The vast majority of them were offered for sale but a very short time.

Why?

What is it that determines the success or failure of a farm machine or implement?

Simply the will of the farmer.

He is the judge and the jury in the case. His decision is final.

Take your own case as an example. You want any labor saving machinery for use on your farm that is good.

You don't want the poor kind at any price.

The farmers of this country have always been on the lookout for anything and everything that holds the promise of better results.

If a good thing is presented to them, they buy it and pay for it and make a success of it.

So if an agricultural implement of any kind fails to make a success, there is only one reason for that failure, and that is that it has not the merit that commends it to the good judgment and sound sense of the practical farmers who are asked to use it.

On the other hand, if a machine succeeds in winning popular favor, not only for one year, but throughout a series of years, you can depend upon it, that there is a merit behind it.

You can't fool the farmer more than one season.

So then, when you see such harvesting machines as the Champion, the Deering, the McCormick, the Milwaukee and the Plano, growing in popularity every year and gaining a stronger, firmer hold on the respect of the farmers who buy them and use them, you are pretty safe in making up your mind that there is good, honest value in these machines—a value and a merit not found in machines which have failed to win the confidence of any considerable number of farmers.

But mind you, it is not an easy matter to build a first class machine every time, any more than it is an easy matter to get thirty bushels per acre of wheat every season, or to breed a 2:10 trotter or a champion bull every time.

The manufacturer has his troubles—just as annoying as those of the farmer.

And the securing of first class materials is one of his first and most grievous difficulties.

The lumber market, the iron market, the steel market, fluctuate; he cannot be sure what the materials will cost him a few months hence.

Quality varies. Very frequently a shipment of coal or steel or lumber or paint or canvas does not come up to specifications.

Sometimes the thing most needed for making a perfect product seems almost unobtainable.

This uncertainty of securing the right materials, at the right time, at the right price, naturally led to an inevitable result:

The manufacturers of the principal harvesting machines—those which had made for themselves a place on the market—said:

"Here, we can't stand this; we must have better materials than we are getting; we must have them when we want them, and we must have them at a fair price. If there's no other way to do it, we'll mine our own ore, roll our own steel, saw our own lumber, make our own paint, mine our own coal and make our own coke, as well as build our own machines. If one of us cannot operate an iron mine and a steel mill, maybe two of us together can—certainly five of us can."

So five it was. The manufacturers of five of the best self binders decided that by co-operation they would produce for use in their several factories materials for harvesting machine building, such as they could not possibly procure in any other way—materials which would be under their personal inspection from start to finish, and which they could be sure were right in every particular.

They have done that.

They have done it exactly on the same

principle as several farmers club together to import a good stallion or to own a good boar, or a score of farmers co-operate in building a creamery, or five hundred or more farmers form their own fire insurance company.

This co-operation has resulted in producing materials which enable the manufacture of a line of harvesting machines which have never been equalled for durability and long life, for reliability and certainty of results and for all round satisfaction in the hands of the farmer.

Such harvesting machines as are produced today in the various plants of the International Harvester Company could not, by any possibility, be produced under any other condition—excepting at an immense advance in cost to the farmer.

We want to tell more about the facilities of the International Harvester Company in later articles in this series—more about its immense lumber camps in Arkansas and Missouri; about its coal mines in Kentucky; its iron mines in Wisconsin and Minnesota—its steel mills in Illinois; we want to tell about the other improvements it has effected and economies it has made, both in manufacturing and in distribution—but in the present article we want only to leave these two thoughts with you:

1. The International Harvester Company is made up of the manufacturers of only those machines which the farmers of the country had endorsed as being most worthy of confidence. The Champion, the Deering, the McCormick, the Milwaukee and the Plano have proved their worth and gained the enthusiastic approval of users in all parts of the country.

2. The International Harvester Company, by co-operation of its five plants, has facilities for manufacturing, from the mine and forest to the farm, possessed by no other manufacturer of agricultural implements, enabling it to know that every machine in any one of its plants has in it only the best procurable materials.

We want you to think of these two things.

The harvesting machines endorsed by the most farmers.

The harvesting machines with the best materials in them.

That means something to you.

Look for our next talk, and, in the meantime, you will doubtless find agencies in your own locality for these harvesting machines. Each dealer understands thoroughly the one line he sells, and carries a complete stock of repair parts. He'll be pleased to show you his particular line and to provide you with catalogue and full information.

In the International Harvesting Machines,

Champion, Deering, McCormick, Milwaukee, Plano,

You Are Offered

The **Quality** which comes from the world's greatest facilities in manufacturing.

The **Economy** which comes from stable, uniform cost of materials.

The **Safety** which comes from a well established, permanent institution.

The **Convenience** which comes from separate agencies everywhere and repairs always on hand.

You cannot afford to overlook these advantages.

They are not offered you in other lines of harvesting machines.

Remember. The International lines are represented by different dealers. See them for catalogues.

Binders, Reapers, Headers, Header-Binders, Corn Binders, Corn Shocks, Corn Pickers, Huskers and Shredders, Mowers, Tedders, Hay Rakes, Sweep Rakes, Hay Stackers, Hay Balers, Knife Grinders, Gasoline Engines, Weber Wagons, Binder Twine.



SAVES MORE HARD WORK

Than any other piece of farm machinery. Adds years to your life. A ten year old boy does a man's work, and that's why thousands of farmers are ordering

SUCCESS HARROW CARTS Positively works on hill side and can't tip over because wheels turn on knuckles. More and better harrowing than the old way. No heavier pulling and horses are not dragging you by the lines. **Positive Guarantee.** Any part proving defective in use replaced free for one year. Remember, you get your money back if not satisfied. There are no chances to take. Send today for free circulars, and order before the spring rush.

Napoleon Manufacturing Co., 81 Bluff Street, Waterloo, Iowa.



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Twenty yearlings and four 2-year-old Galloway bulls for ready sale. Also forty registered Galloway cows and heifers. I will also sell thirty head of 4-year-old horses, mares and geldings, high-grade Percherons and Cleveland Bays. Call or address DEAN BARTLETT, St. Marys, Kans.

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Save the animal—save your herd—cure every case of Lump Jaw. The disease is fatal in time, and it spreads. Only one way to cure it—use Fleming's Lump Jaw Cure. No trouble—rub it on. No risk—your money back if it ever fails. Used for seven years by nearly all the big stockmen. Free illustrated book on Lump Jaw and other diseases and blemishes of cattle and horses. Write for it today. FLEMING BROS., Chemists, 512 Union Stock Yards, Chicago, Ill.

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A few superior young bulls now ready for service. Herd headed by Elegant 111212 and Archer 124786.
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Lindamood's Barred Rocks. Prize-winners wherever shown. Four pens mated scores 90 to 92%. Eggs, \$1.50 to \$2 per sitting. From flock, \$3 per 100. Write for circular. C. C. LINDAMOOD, Walton, Kans.

Alfalfa Range White Wyandottes With bay eyes and yellow legs; bred to lay. Send \$1.50 for 15 or \$2.50 for 30 eggs. A hatch of 9 chicks per 15 guaranteed. ROSCOE ROBINSON, Sharon, Kans.

The Stock Interest

THOROUGHBRED STOCK SALES.

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

March, 14, 1905—F. M. Gifford, Milford, Kans. Short-horns at Manhattan, Kans.
March 14, 1905—Poland-China bred sow sale Herbert Haub, Whiting, Kans.
March 15, 1905—Short-horn cattle, John McCoy & E. D. Ludwig, Sabetha, Kans., at Falls City, Neb.
March 30, 1905—Rice County Breeders' Association sale at Lyons, Kans.
April 18-21, 1905—Blue Ribbon Cattle Sale at South Omaha. D. R. Mills, Des Moines, Ia., Manager.
April 19, 1905—J. D. Stanley, Horton, Kans. Short-horns.
April 19, 1905—Closing out sale of Short-horns J. D. Stanley, Horton, Kans.
May 2, 1905—Heath Stock Ranch, Republican City, Neb. Short-horns.
May 2-4, 1905—Blue Ribbon Cattle Sale at Sioux City, Iowa. D. R. Mills, Des Moines, Ia., Manager.
June 6-9, 1905—Blue Ribbon Cattle Sale at Kansas City, Mo. D. R. Mills, Des Moines, Ia., Manager.

Formula for Lime and Sulfur Dip.

Following is an extract from Dr. Mayo's bulletin on scab or itch in cattle, which gives the formula for the lime and sulfur dip for which so many have written lately; I have recommended this dip as being good for "itchy horses" several times lately, and said that we were sending a bulletin by mail. We have since had a good many letters asking for the bulletin. The extract follows:

Flowers of sulfur, pounds..... 21
Unslaked lime, pounds..... 16 1/2
Water, gallons..... 100

Slake the lime to form a paste, sift in the flowers of sulfur and stir well; put this mixture in a kettle with twenty-five or thirty gallons of water and boil for at least two hours. The chocolate-looking mass is allowed to settle, the clear liquid is drawn off and water enough is added to make one hundred gallons. All dips are more effective when used warm, from 100° to 110° F. Animals should be kept in the dip about ten minutes, or until the scabs are thoroughly saturated. A second dipping in two weeks will kill any mites that may have hatched from the egg after the first dipping. One dipping, if thoroughly done, is usually sufficient, however, to free a bunch of cattle from the disease.

Where only a few animals are affected, hand treatment can be resorted to, but it should be thoroughly done. The remedies can be applied with scrubbing brushes, cloths or sponges, and all scabs and crusts should be thoroughly saturated. The remedy should be applied warm as in dipping. In dipping or hand-treating, a warm, sunny day should be selected for treating the animals.

The above is the dip used for scab or itch of cattle, and is also very effective for itchy horses; horses may be hand-treated with the warm dip.

C. L. BARNES.

Misapplied Terms.

Will you kindly give the readers of your valuable paper a chapter on the proper application of the terms thoroughbred, standard-bred, full blood and any other terms that may be used in reference to cattle, horses, sheep, hogs, and chickens? H. H. TOWNSEND.

Jewell County.

The terms "thoroughbred," "standard-bred," "full blood," "pure-bred," etc., are frequently used in connection with animals that are eligible for record in the herd-books or registers of their particular breed. They are terms that are convenient but while not strictly accurate, are usually accepted and their meaning is usually understood by most stockmen. Either of the words "thoroughbred" or "standard-bred," used in this sense, are adjectives, while used in their correct places they are nouns, or the names of recognized breeds of stock.

The word "Thoroughbred" is the name of a breed of England's running horses for which England has long been noted, and it means just as much as does the name Hackney, Clydesdale, Percheron, or the name of any other breed of horses, and it is a misuse of the word to say thoroughbred Hackneys, thoroughbred Shorthorns, thoroughbred Shropshires, or thoroughbred Berkshires. The name should never be used in this connection.

The word "Standard" is the name applied to the American trotting- and

pacing-horses and should be used in that sense alone.

The terms "full blood" and "pure bred" are often used to denote an animal of pure breeding, that is, animals whose ancestors can be traced to some reliable and recognized herd-book or registry association, and the terms thoroughbred or standard-bred should never be used in speaking of any other distinctive breed as they are distinctive breeds in themselves, and should be recognized the same as the names of any other breeds of stock.

R. J. KINZER,

Assistant Animal Husbandry Department, Kansas State Agri. College.

Barley and Speltz for Hog Feed.

EDITOR KANSAS FARMER:—My KANSAS FARMER of February 2 got badly disfigured by being appropriated by our dog for a bed. Will you kindly send me another copy of that date? I am keeping a file of the KANSAS FARMER and prize it very highly. I am ashamed that I am in arrears a whole year, which comes from trying to secure a new subscriber to send in with my renewal. So many farmers do not think it worth while to read a good farm paper. I will square up my account with you in a week or two, but be sure to keep the paper coming to me for it is very interesting reading, especially the reports from the Experiment Station and the proceedings of the various organizations which meet annually in Topeka. I wish that some of the readers of the KANSAS FARMER would send you plans of a good, up-to-date cow barn for about twelve cows.

There is another problem I would like you to help me with. Shorts are scarce out here and a farmer has a "time" trying to keep something on hand that will make good slop for his pigs. How would it do to raise some barley or speltz and grind it, mixing in a proper quantity of ground oil-cake to make it a "balanced ration?" What proportion of ground oil-cake would make a balanced ration?

E. E. PILLSBURY.

Phillips County.

If you can raise barley cheaply enough you can secure very satisfactory results in the production of pork; in fact, barley is regarded as one of the best of feeds for producing a strictly high-grade pork. Speltz is not a good feed for hogs. It contains too much crude fiber for the digestive system of a hog. A test has been made at the Kansas Experiment Station with speltz in combination with shorts and also speltz in combination with corn, ground and fed wet. The pigs on the speltz ration did very poorly, not consuming enough feed to make good gains, and at the end of one month's feeding, the ration was considered a failure.

To secure the nutritive ratio of 1:6 with barley, which is the ratio most desirable for young, growing pigs it would be necessary to add about twelve pounds of oil-meal to one hundred pounds of barley. As the pigs grow older the quantity of oil-meal may be reduced, thus making the ration somewhat wider. The barley should be ground and the mixture fed wet.

G. C. WHEELER.

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.

STOPS ANIMAL DISEASES
Dipolene kills sheep ticks, lice on cattle and chickens, fleas on dogs; protects animals from tormenting mosquitoes. Spray trees with Dipolene; disinfect stables with it. FREE—enough for a gallon. Write for our free booklet. MARSHALL OIL CO. Box 14 Marshalltown, Ia.

LABEL
Dana's White Ear Labels stamped with any name or address with consecutive numbers. I supply forty recording associations and thousands of practical farmers, breeders and veterinarians. Sample free. Agents wanted. C. H. DANA, 68 Main St., West Lebanon, N. H.

FREE P
The "Dipping Proposition"—a book on the common ailments of animals and a Simple Remedy—with a sample of the remedy, Carbolicum Dip, sent free. Sample will demonstrate that the Dip is a sure cure. Book will save you money. Prescott Chemical Co., 1894 Pearl St., Cleveland, O. (Distributing Depots at Kansas City and Chicago.)

IMMUNE HOGS

Immune your pigs by feeding virus to the sow costs 1 cent a pig) and have their barn cholera-proof. ONE MILLION successful tests. Indorsed by thousands of able veterinarians and scientists; satisfaction guaranteed in writing, backed by \$10,000 security. Agents wanted. ROBERT RIDGEWAY, Box K Amboy, Ind.

PINK EYE CURE FOR HORSES AND CATTLE.

Sure relief for Pink Eye, foreign irritating substances, clears the eyes of Horses and Cattle when quite milky. Sent prepaid for the price, \$1.00.

Address orders to W. O. THURSTON, Hindale, Kansas.

LUMP JAW No Cure No Pay.
W. S. Sneed, Sedalla, Mo., cured four steers of lump jaw with one application to each steer and J. A. Keesman, Osborn, Mo., cured three cases with one application to each. Hundreds of similar testimonials on hand. Full particulars by mail. Write to CHARLES E. BARTLETT, Columbus, Kansas.



Little Things That Count

It's lice, mites, scurvy, mange and skin diseases that knock out the profits on hogs, cattle and other live stock. Keep your animals healthy by using

CAR-SUL DIP

The Great Disinfectant Dip THAT IS GUARANTEED. Prevents disease, promotes health and growth. Positively does not injure the eyes, burn the skin or gum the hair. Endorsed by leading hog and cattle men. Send for free book. Moore Chemical & Mfg. Co., 1507 Genesee St., KANSAS CITY, MO.

A. B. DILLE & SON and J. F. HASTINGS

Sale of Highly Bred Poland-Chinas

To be held on the farm of A. B. Dille & Son, two miles north of EDGERTON, KANS., on

FRIDAY, MARCH 17, 1905

48 HEAD—30 Sows, 18 Boars

Sired by Chief Perfection 2d, Grand Chief Top Roller, Corrector 2d, Perfect Mischief, Iowa's Chief, and Proud Perfection 2d. Most of the sows are bred to some of the above boars. These sows are mostly fall yearlings and spring gilts, and this offering represents the best blood of the world and many of the sows and boars will do credit to any herd in the land. Please write for free sale catalogue at once. Bids sent to auctioneer or clerk in our care at Edgerton, Kans., will receive fair and honorable treatment.

Three fine young Shorthorn bulls will also be sold. Stop at either hotel in Edgerton at our expense. Free transportation from train to farm.

A. B. DILLE & SON and J. F. HASTINGS, Edgerton, Kans.

The Gudge-Stannard Hereford Sale.

For the first time since last November, the Kansas City fine-stock pavilion was the scene of a sale of pure-bred cattle held on Thursday and Friday, March 2 and 3. The consignors to the sale were some of the best-known breeders of Hereford cattle in the West, and these gentlemen had promised in their advertisements to consign a good class of cattle. They fulfilled their promise thoroughly, and we consider this the best offering that has appeared in a Kansas City sale for many months. The crowd in attendance was only fair, though it contained some good buyers. Wyoming, Colorado, and Illinois sent some of the best buyers. While the prices realized were much below the real value of the animals, the sale as a whole was better than such sales have been for a number of months, and the quality of the animals disposed of was such that they will do good missionary work for these breeders in future years. The smallness of the crowd caused the sale to drag at times, but the indomitable energy of Col. R. E. Edmonson, who conducted it, never flagged and the results obtained are due to his efficient work combined with the superior animals he had to sell. The contributors to the sale were among the best-known breeders in the corn-belt and included C. A. Stannard and Mrs. K. W. Cross, of Emporia, Kans.; C. G. Comstock & Son, Albany, Mo.; Dr. J. E. Logan, Kansas City, Mo.; J. A. Larson, Everest, Kans.; L. P. Larson, Powhattan, Mo.; Steward & Hutecheon, Bolckow, Mo.; Benton Gabbett & Son, Dearborn, Mo.; Miss Lou Goodwin, Blue Rapids, Kans.; and A. F. Corihon, Autumwa, Iowa. The sales made at \$100 or over and the summary follow:

BULLS.

Dandy Modest, T. E. Smith, Norman, Okla.	\$100
Java 29th, S. Wuerzberger, Volland, Kans.	195
Hesiod 54th 81362, Morris Cook, Steward, Ill.	305
Columbus Dean, J. A. Larson, Everest, Kans.	100
Monarch 137297, M. H. Hullings, Farmington, Kans.	100
Director 189216, C. E. Puckett, Stockton, Ill.	\$315
Keep On 55th 188207, J. H. Howe & Son, Emporia, Kans.	130
Lord Saxon 9th 188213, H. B. Sager, LaVita, Col.	175
Gentry Lars 22d 173195, John Gimmer, LaVita, Col.	100
Java's Columbus 3d 172968, H. B. Sager.	135
Columbus E. 172965, W. H. Humphrey, Belvoir, Kans.	100
Earl Columbus 185544, D. D. Johnson, Granger, Mo.	120
Sir Percival 175229, Wm. Nethery, Wolf, Wyo.	100
Virginius 205297, John Gimmer.	225

COWS.

Miss Cassie 3d 194323, F. S. Wilcox, McCook, Neb.	180
Genevieve 171353, Makin Bros., Lees Summit, Mo.	215
Helen 2d 176550, John Gimmer.	100
Miss Gentry Lars 157980, Jas. A. Funkhouser, Plattsburg, Mo.	185
Hypatia 173055, H. B. Sager.	120
Dalsette 17th, J. H. Howe & Son.	130
Priscilla 8th, S. T. Tuttle, Wichita, Kans.	210
Brilliantine 7th, F. S. Wilcox, McCook, Neb.	230
Emerald 10th, S. T. Tuttle.	130
Gipsy, Gimmer Bros.	105
Miss Gentry Lars 10th, Jas. A. Funkhouser.	195
Lucille 170485, S. T. Tuttle.	175
Acme's Queen 160537, Makin Bros.	130
Glora, Makin Bros.	130
Homely, S. T. Tuttle.	160
Lady Salisbury, J. D. Rhodes, Las Animas, Col.	145
Princess Columbus, Gimmer Bros.	100

SUMMARY.

32 cows brought.....	\$3,975.00
Average.....	120.46
37 bulls brought.....	3,695.00
Average.....	99.87
70 head brought.....	7,670.00
General average.....	109.57

The Spangler Percheron Sale.

S. S. Spangler, owner of Mt. Vernon herd of Percheron horses, held his annual sale on March 1, at his home town of Milan, Mo. In spite of the bad roads and the fact that this sale had been postponed from the preceding day, the sale was a decided success. Because of the sale having been postponed, however, the attendance of buyers from a distance was, perhaps, not as great as it would otherwise have been, and a considerable number of the horses sold will remain in the home county. It will be remembered that Mr. Spangler made a reputation in his former sale by selling Regina for \$2,500, the highest price ever paid for a Percheron mare anywhere in the United States. He also broke the world's record on young stallions that had been made up to that time. Several of the Percherons sold were yearlings and consequently could not be expected to bring as much money as older horses. The twenty-one Percherons brought \$3,495, an average of \$166.43. The sale in detail is as follows:

PERCHERONS.

Fred Funston, H. S. Avery, Hale, Mo.	\$1,055.00
Dreufus, D. S. Payne, Milan, Mo.	600.00
Julian, G. E. Davis, New Boston, Mo.	570.00
Western Stamp, A. E. Cherry, Adrian, Mo.	825.00
Roger, C. E. Daniels, Greencastle, Mo.	225.00
Pat Crow, A. E. Cherry.	705.00
Jordan Junior, W. G. Harris, Trenton, Mo.	300.00
Mark Me, J. A. Niblo Sr., Milan, Mo.	750.00
Farmer Boy, A. Payne, Jr., Milan, Mo.	130.00
Gold Nugget, O. A. Hartley, Laredo, Mo.	145.00
Jude, J. D. Crawford, Atlanta, Mo.	520.00
Minnie, J. A. Niblo, Sr.	300.00
Black Bird, H. S. Avery.	485.00
Zella, J. A. Niblo, Sr.	295.00



DR. HESS (M.D., D.V.S.) IN HIS LABORATORY

Knowledge--not guesswork

Dr. Hess (M.D., D.V.S.) who formulated Dr. Hess Stock Food, is a regularly licensed Doctor of Medicine and a Veterinary Surgeon. He is a graduate of the University of Wooster, Cleveland, Ohio; Matriculate of College of Physicians and Surgeons, Baltimore, Md., and a graduate of the Chicago Veterinary College, and in addition is a practical stock feeder of many years' experience. Dr. Hess Stock Food is a medicinal food prepared from a highly successful prescription used by Dr. Hess in his many years regular practice before the food was put on the market.

It requires only common sense to see that unprofessional manufacturers cannot equal a preparation formulated by a practical physician and based upon accurate knowledge, long experience and observation. Furthermore,

DR. HESS STOCK FOOD FOR CATTLE, HOGS, SHEEP AND HORSES

's sold under a positive guarantee to do all that is claimed for it. It is fed in small doses and consequently is surprisingly economical to use. It is not a condensed ration or a condimental food. It is always used in conjunction with the animals' regular foods. It acts as a tonic and laxative and compels the digestive and assimilative organs to use more of the food for flesh, fat, bone, muscle or milk, and relieves the minor stock ailments.

5¢

per lb. in 100 lb. sacks, 25 lb. pail \$1.60. Smaller quantities a little higher. Small dose.

Except in Canada and extreme West and South.

SOLD ON A WRITTEN GUARANTEE.

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

DR. HESS STOCK BOOK FREE, if you will mention this paper, state how much stock you have and what kind of stock food you have used.

DR. HESS & CLARK, Ashland, Ohio

Also manufacturers of Dr. Hess Poultry Pan-a-c-o-a and Instant Louse Killer.

Instant Louse Killer Kills Lice

PREVENTS BLACKLEG

Vaccination with BLACKLEGIDS is the best preventive of Blackleg—simplest, safest, surest. Each BLACKLEGID (or pill) is a dose, and you can vaccinate in one minute with our Blacklegoid Injector.

Every lot tested on animals, before being marketed, to insure its purity and activity.

For sale by druggists. Literature free—write for it.

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HOME OFFICES AND LABORATORIES: DETROIT, MICH. BRANCHES: NEW YORK, CHICAGO, ST. LOUIS, BOSTON, BALTIMORE, NEW ORLEANS, KANSAS CITY, INDIANAPOLIS, MINNEAPOLIS, MEMPHIS.



Farmers and Breeders! We Will Insure Your Hogs Against Death by Cholera

And other malignant blood diseases. Don't waste time and money experimenting with cheap stock food. Use a medicine prepared especially for the hog. Twenty years' test without a failure. We run all risk and in case THE GERMAN SWINE POWDER fails to eradicate the disease from your herd, we refund your money. The greatest conditioner and growth-promoter ever discovered, and the biggest money-maker for hog-risers known. Prices: 100 lbs., \$35; 25 lbs., \$7; 10 lbs., \$3; 5 lbs., \$1.75; 2 1/2 lbs., \$1. Send for our Treatise on Swine—it's free. Make all checks and drafts payable to

LON ELLER, Manager and Proprietor of

The German Swine and Poultry Merchandise Co., Topeka, Kans.

Blacklegine BEST AND MOST CONVENIENT VACCINE FOR BLACK LEG. PASTEUR VACCINE CO CHICAGO SAN FRANCISCO

KARSOLENE DIP

For CATTLE, SHEEP Swine, Poultry

Karsolene Disinfecting Dip is a scientific preparation made from a Creosote base, combined with other chemicals. Is sure death to lice, and small vermin of all kinds; will not burn or irritate the most tender skin. Cures all skin diseases and promotes health. Sold on a positive guarantee. We will send a free sample of Karsolene Dip—you can give it a trial before you buy. Write today for the sample and catalogue giving directions and prices. STOCKMAN'S MERCANTILE COMPANY, 1504 W. 12th St., Kansas City, Mo.

SAVE 20 CENTS PER SHEEP on every sheep you shear with **Stewart's Improved 1904 Sheep Shearing Machine** **PRICE ONLY \$12.75**

The day of the old fashioned hand shears is past. No owner of 10 sheep or more can afford to shear by hand, even though the work be done for nothing. Don't butcher your sheep. Shear with machine and get one pound of wool extra per head. It will more than cover the cost of shearing. Send today for valuable book "Hints on Shearing." It is free and will save you money.

CHICAGO FLEXIBLE SHAFT CO., 206 Ontario Street, Chicago.

SMOKE YOUR MEATS IN THE NEW WAY, USING WRIGHT'S CONDENSED SMOKE

A liquid made from hickory wood. Imparts the delicate flavor that is peculiar to meats smoked with hickory wood. Used by Applying the Condensed Smoke with a Brush. Send 10c and names of five who cure meat and we will mail you sample free. Sold only in square quart bottles with metal cap. Never in bulk. At druggists, 75c per bottle. Bottle smokes a barrel of meat. Be sure to get Wright's Condensed Smoke. Made by

WRITE FOR FREE BOOKLET on curing meats

W. H. WRIGHT CO., Ltd., 119 W. Fourth Street, KANSAS CITY, MO.

The Plainville Kansas Breeders' Association Sale.

The annual sale of the Plainville Breeders' Association for 1905 was held on Thursday, February 23, and was considered a decided success. In spite of bad roads resulting from previous bad weather, the attendance was quite satisfactory, and the sale passed off as do all sales that are handled by Col. J. W. Sparks, and both buyers and sellers were pleased. The Shorthorns sold were in excellent condition, and every animal was promptly called for and delivered at once. The top of the sale was brought by Estella, sold by N. F. Shaw to E. P. Frisbie, of Plainville, for \$205. The top of the bull sale was brought by Strawberry Baron 149498, who went to A. W. Hall, Plainville, for \$200, which was about one-half his value. The thirty-six head of Shorthorns in the sale were distributed among the consignors whose averages are given as follows: A. W. Hall, two head, \$48.25; J. A. Leshner, one head, \$80; Arthur Cooper, three head, \$74.18; C. C. Slason, two head, \$76.25; Wm. Mellott, one head, \$67.50.

(Continued on page 274.)

The Young Folks

CONDUCTED BY RUTH COWGILL.

The Time to Hate.

I have a friend—I mean, a foe—
Whom cordially I ought to hate;
But somehow I can never seem
To lay the feud between us straight.
When apple boughs are full of bloom,
And Nature loves her fellow men
With all the witchery of spring
How can you hate a fellow then?

And then when summer comes, with days
Full of a long and languid charm,
When even water-lilies sleep
On waves without a thought of harm,
When underneath the shadiest tree
My hammock hangs in idliest state,
I were an idiot to get up
Out of that hammock just to hate.

Then harvests come. If mine is big,
I am too happy with my store;
If small, I'm too much occupied
With grubbing round to make it more,
In dim recesses of my mind;
I have no idle hour to spend
In hunting up the bitter foe
Who simply ought to be my friend.

In winter? Well, in winter—ugh!—
Who would add hate to winds that
freeze?

All love and warmth that I can get
I want in such dull days as these.
No, no, dear foe; it is no use;
The struggling year is at an end.
I can not hate you if I would,
And you must turn and be my friend.
—Alice W. Rollins, in Harper's Weekly.

What I Would Do if I Were a Farmer.

[The following address by Rev. Charles M. Sheldon, who is known and beloved by many who have not seen him, was delivered at the annual meeting of the State Board of Agriculture, at Topeka. It ought to be read by every young man who intends to be a farmer and wants to make the best of himself in his profession.]

I have always been thankful that my immediate ancestors were farmers. My grandfather on my father's side moved from Berkshire County, Massachusetts, to Western New York in the early part of 1800 and cut his way through the woods in Genesee County to the farm upon which he located, enduring all the pioneer hardships connected with the clearing up of a timber homestead. My father was born in a log house which his father built with his own hands and was a farmer up to the time of his leaving the homestead for college. And I am proud to say it is still a tradition in the county that he could cradle more wheat in a day than any other young man in the township. My own boyhood was spent on a farm in South Dakota before the territory was divided into two States and I have had the good fortune to know what it means to break prairie sod with a mule team all day and the melancholy experience of standing by a wheat-field that would probably go thirty bushels to the acre being mowed down by the great American grasshopper, a lineal descendant of the Old Testament locust.

If it had not been for this farmer ancestry and my own vivid if somewhat limited experience as a farmer, I would hardly have ventured to say to an audience of Kansas farmers what I would do if I were one of them. My only apology, if one is needed, for the title of this address, is found in the fact that I sometimes anticipate ending my days on a farm as I began them, as perhaps an ideal way to spend the last days of one's life if he were permitted to choose for himself. The suggestions I have now to offer in brief are not altogether impracticable and certainly not impossible of attainment. Taking for granted that if I were a farmer I would be on an average Kansas farm without too large an incumbency in the way of debt, with health and strength physically and that share of intelligence which I take for granted is possessed by the average Kansas man on the farm, I would like to say what I would do if I were in such condition, speaking partly out of the experience I have already had, and asking indulgence for the use of the necessary first personal pronoun, which I will ask you to sink out of sight as much as its use will permit.

1. If I were a farmer, I would take some time in the course of my life on

the farm to enjoy the scenery. A famous New England painter of animals, one who specially won reputation for his painting of cattle, once said gravely that he thought a cow in her grazing picked out the places in the meadow or on the hillside where the scenery was of the best. If a cow can enjoy scenery a man ought to. I can remember the time when even as a boy, as I followed the breaking plow along the slope of a gently rolling prairie of the homestead, I caught some real enjoyment from a Dakota sunrise or sunset. Some people who do not know what the prairie is or who have never lived any farther west than New York think there is no scenery except where there are mountains or rough country. I contend there is as much scenery in a prairie country as in a mountain country, if only one has eyes to see it. And of all men, it seems to me the farmer is especially privileged in living away from the smoke-covered cities where he can see out to the rim of things, and if I were a farmer I would not make the mistake that some do by shutting out of my soul the things that God has made for the enjoyment of the eye and the delight of the ear.

Last summer in Arizona I ran across a man living on the edge of the Grand Canon, who had been born in that neighborhood. He spoke of the Grand Canon as a crack in the ground, and apparently from his brief conversation I glean his only interest in that magnificent view was its power to attract tourists up to the place where he kept a refreshment bar, from which he dispensed certain liquors at so much a drink; and noticeably his bar was so built in his saloon that from it, looking out of the door, neither himself nor his customers had any view whatever of one of the great scenic wonders of the world. I do not think if I were a farmer again I should in the course of the year lose any particular amount of wealth or be any less a good farmer if I were occasionally to say "whoa" to my team and sit down at the end of the furrow and drink in the beauty of the field and listen for a moment before starting back, to the voices which God has made for all outdoors. At any rate, if I were a farmer, I would reckon on the scenery to some extent, and there are farms in Kansas where what we call views ought to be a part of a man's daily program.

2. If I were a farmer, I would buy me a good kodak and take pictures of various things on the farm. A good kodak with a developing machine by means of which the pictures may be finished without the use of a dark room, can be bought with all the material necessary to use for a whole year for \$25. Speaking of scenery again, there are in the State of Kansas as many beautiful places as in any other States of the Union, and on many of the farms of Kansas the individual nooks and corners that are worth preserving permanently would surprise those who have never attempted to place these pictures on paper. In addition to the enjoyment which the taking of these views would furnish, there are numberless opportunities to find satisfaction in making views of favorite animals or of special stock exhibits, to say nothing of the best exhibit of all, the members of the farmer's family. It does not require any more skill to manage a kodak successfully than it does to run a twine-binder and it is not nearly so complicated.

The first objection that arises naturally in the mind of the average farmer is the time needed to cultivate what might be called "a fad" on the farm. But at this point I would modestly ask opportunity to express my views in regard to the object of farming in general. I think there is such a thing as making one's self a slave in the passion of work and not allowing the proper amount of time for necessary and healthy play. One of the objects of living is to live, and that is not a full life which does not provide necessary spaces for healthy amusement or recreation. If I had a farm of a quarter section, which was paid for and I was what might be

called successful in the fact that I made a little more than my living expenses, I for one would not take what little money I had made to buy more land or increase the size of my farm or add to my stock, but would take that surplus and put it into the development of the life of my family and myself in other ways. I was in one of the richest counties in this State a few weeks ago where I was told several groups of farmers had their farms paid for and money in the bank. Invariably when I asked, "What do the farmers do around here when they make money on the farm?" the answer was, "Buy more land." If I were a farmer I would not necessarily buy more land even if I had money to do it with, but would buy more leisure or take more time for other things besides physical work. And a kodak would be one little item in the life on the farm which would add to my enjoyment, an enjoyment which I could share with other members of the family and my neighbors. I mention the kodak simply as an illustration of other kinds of recreation which the farmer might employ to interest his life in contrast with the toil which takes the larger part of his energy.

I recall now a farmer in New York State, a boyhood friend of mine who lived near my grandfather's farm. On the death of his father, he came into possession of a good farm of about two hundred acres. It was well stocked. It contained all necessary variety in the way of soil, timber and water. It was free from all incumbency. The young man started in with the legacy of good health, a free field and every prospect of success. The first five years he made money and instantly put it into more land, buying an adjoining farm of eighty acres. This added to his burden of responsibility and care. He seldom took a vacation, so far as I know had almost no source of recreation outside of his planning for the care of the land and the development of the farm as a whole. It did not surprise me to receive news a short time ago of his death at the early age of forty-five, and the verdict of the community was that which has been so often made, "overwork and anxiety, the continual strain of toil without relaxation," as if life consisted in getting more and more instead of living within the smaller circle and having reserve forces. I think it is fair to say this young man is a type of hundreds and thousands of farmers all over the world to-day. I know there are some in this State as well as other States. It is as Christian to play as it is to work. It is not right to kill one's self by doing either alone. There is a happy combination of the two which furnishes the proper rule of life.

3. If I were a farmer, I would also provide my home with some kind of self-educating process which would be working itself out every day of the year. An intelligent and happy family on a farm in Vermont, with which I was personally acquainted for two years, took the Chautauqua course and graduated with honor. In that particular home where there were three boys and two girls, there were at least six different periodicals which had nothing special to do with farming. Sometimes it is almost as hard to get a farmer to take something besides a daily paper and a farm journal as it is to get a church member to subscribe for a missionary magazine or a religious paper. After two years' residence in a country district in Vermont, I recall visiting scores of farmers' homes where only two papers were taken, a daily or semi-weekly and one farm journal of some kind. There was no touch with literature in the broad sense of the term. There was no contact with the outside world of thought in the matter of music or art or science. There are, of course, plenty of men living in this State, both in city and country, who never take but one kind of political paper. They never read but one side of a question. This is a narrowing mental process of which any intelligent man should be ashamed. In this day of cheap-priced and great variety of publications, half a dozen or more magazines or period-

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icals would cost no more than a load of hay and would provide an entire family with mental recreation and stimulus, which is as necessary to life as the physical and muscular vitality. As I recall my own boyhood experience on the farm, I remember as a boy I looked forward with anticipation to the evening after the chores were done when I could sit down to the reading-table in the little log house and read something besides how to build chicken-houses, or color butter, or make a silo. For two or three hours, at least, I was transported from the region of the plow and the thrashing machine into the other worlds which belong to all of us, but which, alas, too often are shut out of our vision because we do not define life in large enough terms.

(To be continued.)

For the Little Ones

What a Boy Can Do.

These are some of the things a boy can do:

He can shout so loud the air turns blue; He can make all sounds of beast and bird And a thousand more they never heard.

He can crow or cackle, chirp or cluck Till he fools the rooster, hen or duck; He can mock the dog or lamb or cow, And the cat herself can't beat his "me-ow."

He has sounds that are ruffled, striped or plain; He can thunder by like a railway train. Stop at the stations a breath and then Apply the steam and be off again.

He has all of his powers in such command He can turn right into a full brass band, With all of the instruments ever played, And march away as a street parade.

You can tell that a boy is very ill If he's wide away and is keeping still, But earth would be—God bless their noise!

A dull old place if there were no boys. —Nixon Waterman in Christian Endeavor World.

The Fagot-Gatherer.

FLORELLA ESTES, IN CONGREGATIONALIST AND CHRISTIAN WORLD.

(Continued from last week.)

Soon winter fell upon the land, the forest floor was covered with snow, and the fagots were buried beneath it. One evening the Old Woman, sad and hopeless, sat before her little fire. She had only a small piece of bread left, and her supply of fagots, even with great care, would last only into the morrow. The wind howled dismally around the hut, and the snow whirled in through many crevices. At length there came a knocking at the door.

The Old Woman hobbled as fast as she could and threw the door open. There stood, leaning on a staff, and with a pack on his back, a thin, bent, old man, covered with snow and shivering with cold. Before he could speak a word the Old Woman seized his arm and pulled him into the hut, saying, "In the name of our common Father and our common humanity, come in." Then she threw the last of her fagots on the fire, to make a great blaze, and she gave the stranger her last piece of bread, and she climbed into the loft and slept on straw, so that the weary old man might have her own more comfortable bed.

When she arose next morning, she looked through a hole in the thatched roof and beheld her guest of the night departing. The storm had ceased, the sun shone warmly, and the old man walked with a vigorous step, not leaning on the staff in his hand. The Old Woman lifted her tear-filled eyes in prayer:

"I thank thee, my God, that Thou hast permitted me, so poor and weak and miserable, to give strength and comfort to one of Thy creatures."

With her heart filled with that peace which can come only from unselfish acts of kindness, she descended from the loft. And lo! a great fire blazed on the hearth, a huge pile of firewood stood against the wall, while on the table lay bread and meat and some pieces of silver. Also, a large, warm shawl lay across a bench. The Old Woman wept with joy and gratitude. She felt that God had sent her all that she had so much needed, and she sought no other explanation. But

the fact was, the old man whom she had sheltered from the storm was a peddler, and he had given from his pack the shawl and the food and from his purse the silver. And seeing her need of firewood, he had risen early and gathered the pile of sticks which stood against the wall.

A few days afterward there came to the hut a strong young peasant, who clasped the Old Woman to his breast and kissed both her withered cheeks, crying:

"Grandmother, I have come to take you to my home, where you shall have every care and comfort as long as you live. When I got back from the war I learned that I had been reported killed in battle. You were gone from the old home, and I believed you dead until I met the peddler whom you sheltered from the storm a few nights ago."

The strong young peasant took the poor Old Woman away from the wretched hut on the edge of the forest to a home of peace and plenty, where she lived a few happy years. Often she gathered her great-grandchildren around her, and taught them, in her simple way, the lesson which she had learned so late—that there is no true happiness, no real good, except in the love which "seeketh not its own."

From the Pacific Coast.

Spokane, Wash., February 20, 1905. Editor Kansas Farmer:—Since writing you last from Tacoma I am once more east of the Cascade Range of Mountains that separate Western and Eastern Washington.

This is the great wheat, fruit, alfalfa, hop, and berry country here in the Yakima Valley, in Yakima County. A large part of the county is under irrigation to all the products above-named and a still larger part of its land has enough rainfall to produce the fine crops of wheat that they get here every year.

I have been over the "Horse Heaven" country, so called, because before they found out it was fine for wheat it was a great winter grazing ground for horses on account of its mildness of climate—now its ranges have turned into wheat fields. At Presser, where they have some very fine irrigated orchards and fruit-lands I talked with a Mr. Guernsey who told me he had rented a man his seven and one-half acre orchard this year for half the apples grown and to date had got \$1,400 for his share of the rent and still he and his renter had 700 boxes of apples to sell. How do you like the idea of a man getting over \$200 per acre rent per year for his land? Of course the apples were very fine and highly salable. But this letter is to be about the wheat lands I found in this part of Washington.

At North Yakima I found a wonderful growing town of 8,000 with over two million dollars in its banks, made from irrigation and wheat.

At that place I took a team and drove out over the Moxee bench lands east of the city. For the first few miles the country could almost be classed as a village instead of a farming country, so thick were the houses upon the farms. As I got further east and higher up and looked back I could hardly realize that this country of alfalfa, fruit, hops and vegetables was not a village. All through here the country is under irrigation but as I got out of the irrigation belt I came to the wheat lands to raise which irrigation is not needed.

Right along east as I went mile after mile the land gradually rose and the country spread out before me, an ideal great tract of land probably forty miles long and eight miles wide. To the northward was a ridge that gave shelter to this beautiful valley and it was also bounded upon the southward by another range of low hills, forming one of the finest farming valleys I have ever seen.

At the Walters ranch I stopped for dinner and examined the fine artesian well there. It is a six-inch well and from it they can irrigate 160 acres of land. The water I found to be perfectly pure and very wholesome without any mineral of any kind in it. It is, however, quite warm, which is a decided advantage as it stimulates plant growth and is fine water for stock in the cool weather, though it never gets cold there as it does east of the Rockies. The pressure was so great in this well that it throws a stream eighty feet in the air. All along the rim of enclosing hills I have mentioned are many springs while a fine little clear stream runs from the valley eastward.

They carry on farming operations in wheat-raising in Washington upon a remarkably cheap basis. The climate is favorable for a long season of farm work and as wheat does not shatter or crinkle after it is ripe, it stands for weeks before cutting. Most of the farmers use headers which cut 30 to 40 acres per day and then some use the combined harvesters and thrashers which cut and thrash at the same time. One of these leviathans costs about \$3,000 and is hauled by 32 horses. It cuts, thrashes and sacks from 30 to 40 acres a day all at the same time at a cost of about six cents per bushel and it takes only three or four men to run the whole aggregation. It is worth the trip all the way out here to see these machines at work. Last fall I could see four of these big machines at work from one point. In this fine valley the country was just being opened up for farms and I found land quite low in price and I do not know that I have seen land of better quality in the State for wheat-raising.

I made up my mind that fortunes would be made here in the next few years as they have been made in other parts of the State. Since coming back to Spokane I have talked with the president of a bank here that has \$3,000,000 on deposit and he tells me that it is the farmers who have the money in bank in this

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The Home Circle

CONDUCTED BY RUTH COWGILL.

Slap Him on the Back.

If you should meet a fellow man with trouble's flag unfurled, An' looking like he didn't have a friend in all the world, Go up and slap him on the back, and holler, "How d' you do?" An' grasp his hand so warm he'll know he has a friend in you. Then ask him what's a hurtin' him, an' laugh his cares away, And tell him that the darkest night is just before the day. Don't talk in graveyard palaver, but say it right out loud, That God will sprinkle sunshine in the trail of every cloud. This world at best is but a hash of pleasure and of pain, Some days are bright and sunny, and some are slashed with rain, And that's just how it ought to be, for when the clouds roll by, We'll know just how to prelate the bright and smilin' sky. Some learn to take it as it comes, and don't sweat at the pores. Because the Lord's opinion doesn't coincide with yours; But always keep rememberin', when cares your path enshroud, That God has lots of sunshine to spill behind the clouds.

—James Whitcomb Riley.

Prominent Early Kansans.

Among pioneers of Central Kansas in the early 70's was Rev. H. Brundige, pastor of the First Congregational Church of Great Bend, also county superintendent of public instruction. He was a little, black-eyed man—and the father of eight children. Our first acquaintance with him was when he drove directly to our door, accompanied by two other men, stood up in the carriage facing them, and with raised hand went over some formula, the meaning of which I could only guess at, so fell to wondering what we had done that should result in our arrest. It turned out that he was there officially and was only "swearing" his men to make honest appraisal of the value of our "school land." A good visit followed. He and his good wife had come from Wisconsin, our own State, and he extracted a promise from us, before leaving, to spend the next Saturday and Sunday with them, I to take a teacher's examination, and all to attend church services in the court-house. There were no church buildings yet in the city. The twelve-mile drive was a memorable one, the visit more so—and the examination most so, for after writing until noon, on two or three studies, I was informed, "You needn't come back after dinner; I have a pretty good idea of your accomplishments," and was given the best certificate I had ever received and a "grade" on some branches I had never studied.

One Sunday morning, as we drove into the city, the atmosphere noticeably vibrated with suppressed excitement. Little groups of men—talking in an undertone, here and there, aroused our curiosity. Enquiries were answered by the information that a man had been killed the night before, the murderer arrested, but captured from the sheriff by a mob which had taken him with a rope around his neck to the bridge in the outskirts of town. The man had been rescued, however, and no one seemed to know exactly how, nor where he now was. Church services, which followed as usual, were not particularly devotional. After the sermon, Mr. Brundige passed through the congregation, greeting friends and strangers with cordiality, and went out and entered his carriage to drive to the country for an afternoon appointment. He was accompanied by an old lady who had occupied a front seat during services—apparently one of his friends. Strangers were too common to attract attention. It turned out, she (?) was the murderer—and Mr. Brundige was met a few miles out by the sheriff, who relieved him of his guest later and took him on a train to Lansing.

One of the church members, a brilliant lawyer, was "addicted to his cups." Again and again he had sworn off, only to yield under stress of temptation. When under the influence of liquor, he was a raving maniac—fierce, vulgar, and abusive. At one such time Mr. Brundige found him in the

courthouse, collared and locked him up in a cell until sobered, and then "labored" with him. If the lawyer was ever drunk again, it was unknown in our locality.

Because the courthouse was the only available place for holding public worship, appointments would sometimes clash. On the grounds of priority, the Congregationalists used the court-room every Sabbath morning. The Christian denomination, objecting to this monopoly, announced services for "next Sunday morning at 10.30." Our twelve-mile drive brought us in on time for morning Sabbath-school. There, on the front seat, big, pompous, and with an air of "we beat you this time," sat the minister who was only waiting for Sabbath-school to close that he might take possession. Our pastor was out of sight, but with the last word of the closing song, the door to a little cell where prisoners awaited their turn for trial, suddenly opened, and the Congregational pastor, with one step to the desk, quietly said: "We will open our morning exercises by singing hymn No. —"

The red face of the big man grew redder as some one whispered, "Triumph of mind over matter." Princeton, Kans. RUTH RUSTIC.

Club Department

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

The Woman's Progressive Club of Harper County has changed its name to "The Woman's Country Club," as will be noted in our club roll. This is a very lovely club, and we are very glad to receive such enthusiastic news of it. The club sends us a splendid article which will appear next week.

A Chautauqua Club in Mitchell County.

The Prentiss Reading Club was organized in the neighborhood four miles southeast of Cawker City in May, 1903.

The club, at first, had only five members, but the ladies who composed it were determined that the club should live and attended regularly, allowing nothing less than sickness or "thrashers" to keep them away. At present the club has eight wide-awake, enthusiastic members and the meetings are full of interest.

The course of study followed is the work given in "The Chautauquan." Each member is assigned a topic and prepares a paper from the material given in that magazine. This does not mean that each member must subscribe for The Chautauquan, but the magazines are passed from one member to another, each doing her own part.

The program at a recent meeting was:
Responses to roll-call—Current events.

Woman's Kidney Troubles

Lydia E. Pinkham's Vegetable Compound is Especially Successful in Curing This Fatal Disease.



Mrs. J. W. Lang and Mrs. S. Frake

Of all the diseases known, with which women are afflicted, kidney disease is the most fatal. In fact, unless early and correct treatment is applied, the weary patient seldom survives.

Being fully aware of this, Mrs. Pinkham early in her career, gave exhaustive study to the subject, and in producing her great remedy for woman's ills—Lydia E. Pinkham's Vegetable Compound—was careful to see that it contained the correct combination of herbs which was sure to control that fatal disease, woman's kidney troubles. The Vegetable Compound acts in harmony with the laws that govern the entire female system, and while there are many so called remedies for kidney troubles, Lydia E. Pinkham's Vegetable Compound is the only one especially prepared for women, and thousands have been cured of serious kidney derangements by it. Derangements of the feminine organs quickly affect the kidneys, and when a woman has such symptoms as pain or weight in the loins, backache, bearing down pains, urine too frequent scanty or high colored, producing scalding or burning, or deposits like brick dust in it; unusual thirst, swelling of hands and feet, swelling under the eyes or sharp pains in the back running down the inside of her groin, she may be sure her kidneys are affected and should lose no time in combating the disease with Lydia E. Pinkham's Vegetable Compound, the woman's remedy for woman's ills.

The following letters show how marvelously successful it is.

Lydia E. Pinkham's Vegetable Compound: a Woman's Remedy for Woman's Ills.

Mrs. Samuel Frake, of Prospect Plains, N. J., writes:

Dear Mrs. Pinkham:— I cannot thank you enough for what Lydia E. Pinkham's Vegetable Compound has done for me. When I first wrote to you I had suffered for years with what the doctor called kidney trouble and congestion of the womb. My back ached dreadfully all the time, and I suffered so with that bearing-down feeling I could hardly walk across the room. I did not get any better, so decided to stop doctoring with my physician and take Lydia E. Pinkham's Vegetable Compound and I am thankful to say it has entirely cured me. I do all my own work, have no more backache and all the bad symptoms have disappeared.

I cannot praise your medicine enough, and would advise all women suffering with kidney trouble to try it.

Mrs. J. W. Lang, of 626 Third Avenue, New York, writes:

Dear Mrs. Pinkham:— I have been a great sufferer with kidney trouble. My back ached all the time and I was discouraged. I heard that Lydia E. Pinkham's Vegetable Compound would cure kidney disease, and I began to take it; and it has cured me when everything else had failed. I have recommended it to lots of people and they all praise it very highly.

Mrs. Pinkham's Standing Invitation.

Women suffering from kidney trouble, or any form of female weakness are invited to promptly communicate with Mrs. Pinkham, at Lynn, Mass. Out of the great volume of experience which she has to draw from, it is more than likely she has the very knowledge that will help your case. Her advice is free and always helpful.

YOUR POCKET OR THE DEALER'S WHICH?

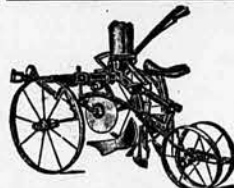
There's a big difference between the manufacturer's price and the dealer's retail price. The difference is profit. We leave you to decide whether this money goes into your pocket or the dealer's. We sell at manufacturer's prices direct to the user. We sell fence on

30 DAYS' FREE TRIAL

Freight prepaid. Only a factory making fence that had honesty interwoven with every strand would dare to do business on a broad-gauge policy like that! This is our plan and we've got more friends and better friends among the farmers of this country than any fence manufacturer on earth. Only best quality galvanized steel wire used in Advance Fence. The tie wire is continuous. It is twisted into the selvage strands from one stay to the next and wrapped twice around each horizontal strand as it passes across the fence. A slight crimp where stay wire is wrapped prevents slipping. Our Free Fence Book describes and illustrates our 26 styles—a fence for every requirement of the farm. It also tells more about the construction of Advance and our unique method of selling. This book contains much valuable information that should be in the hands of every farmer. Write today for book and wholesale prices.

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THE ONLY FRAMELESS RIDING LISTER

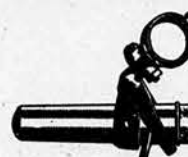
Driver sits back of dropper and can see every grain as it drops. Does perfect work in back-listing, and will not upset.

Turns a square corner with bottom in the ground.

THE TRICYCLE is the lightest lister made, both in weight and draft. It has fewer parts and is therefore more durable than others.

WRITE US FOR BOOKLET giving complete description; also ask for our new memorandum book. It's a novelty.

ROCK ISLAND IMPLEMENT CO., KANSAS CITY, MO.



PREVENT ACCIDENTS BY USING

Ziegler Automatic Lock Neckyoke Centers

For buggies and carriages. Tongue can not drop if singletree breaks or trace unfastens. Made of malleable iron, leather lined, japanned, safe strong, durable. If your dealer can not supply you, send his name and 75 cents for one Center, prepaid and guaranteed.

THE ZIEGLER NECKYOKE COMPANY, Dept. A, COFFEYVILLE, KANSAS

Borderlands of America—Alaska and the Klondike.

Racial composition of the American people: Immigration during the 19th century.

Washington, the pioneer investor. The French Revolution—life of Napoleon.

Reading from Evangeline. Both winters of its existence the club has had a traveling library.

One of the pleasantest features of our club work during the past winter has been the receptions given at different homes once each month. A short program is provided which is carried out either by the club women, or subjects of interest to the husbands are given out for discussion. At one reception the program was omitted entirely and each person was asked to come dressed to represent some advertisement.

Refreshments are served and the latter part of the evening devoted to games. These evening gatherings have been most pleasant and profitable in drawing the different families of the neighborhood together and giving us a common interest. We never think of giving up our club work and only wonder that we did not organize long before we did.

MRS. JESSIE E. ADAMS.
Secretary pro tem.

We are very glad to add to our roll this very interesting club. The study in The Chautauquan which they are taking up is very valuable. Many women who are denied club privileges take this work by themselves and thus are able to continue their education, and keep from dropping behind the times intellectually. There is an annual Chautauqua Assembly at Cawker City, which is said to be very fine, and which I hope to have the privilege of attending. Any one who lives in Mitchell County, or near it, will be well repaid for going to the Assembly. I will speak further of this matter later.

Another very interesting thing in this letter is the account of how they interest their husbands. Those monthly receptions must be very pleasant and very helpful to both men and women.

HOUSEHOLD PROGRAM.

Little Things About the House.

Roll-call—Prominent women of the world.

- I. "System."
- II. Tact.
- III. Illness and the care of invalids.
- IV. The baby.
- V. Odds and ends of the housemother's duties.

I feel that this program has been inappropriately named. It should perhaps be called "Some of the Essentials," for though it does not speak of the great daily duties that may be called the "manual labor" of house-keeping, yet it discusses things really as great and important.

One of the most important lessons for the housewife to learn is what is called system. To have a regular, orderly and intelligent plan of work for every day and every week and every season, is the only way to accomplish the task successfully. We are warned against habit. We are told to beware that we do not become the slaves of habit. Yet this same thing, "habit," is the greatest labor-saving device ever discovered. If we did not do things habitually we would be compelled to labor at each doing of a task just as strenuously as we do now in the first attempt of it. If washing dishes did not soon become a habit, we should each day go about it as unhappily as children. We should have to study out each detail of the work. We would first search the premises for the dishpan and towels, for, not having the habit of putting them in any one place, we could have no idea of where to look for them. We would then have to stop each time, to reason out a method of piling the dishes, of washing them and drying them, and then we would proceed to put them out of the way, somewhere, to be sought for again to-morrow. And so it would be

with every least duty. And of course only a small proportion of what we do now very easily would be accomplished at all.

Another very important matter for the housewife's attention is tact. Tact is not deceit, nor flattery, nor any underhanded thing. It is simply intelligent unselfishness, and its importance in a home can not be overestimated.

Illness is a guest which never fails to visit the home at some time or another. It is well, then, to be prepared for it, and enlightened as to its treatment. I have heard a physician say that there is more in good nursing than in medicine. The intelligent mother can save many a dollar in doctor's bills, and many a pain and much discomfort, if she will. And how many of us are alive to-day because our mothers, a second time in weariness and watching gave us life. The mothers are a life-saving, as well as a life-giving company.

Another guest who comes to almost every home—and sad, indeed, it is when he does not come—is the stork, bringing a little life to bless and cheer the home. The baby, and its care through the first two or three years of its life, could easily furnish material for several papers. In this paper should be crowded the most of common-sense and tenderness that one's mind holds.

The last paper of the afternoon will be a miscellaneous one, the odds and ends. Whatever seems most important of the innumerable small things of life, will be discussed in this paper.

KANSAS HISTORY PROGRAM.

Prohibition in Kansas.

Roll-call—Recent events in Kansas. I. History of prohibition in Kansas.

II. Some people who have been prominently identified with the movement.

III. The Crusades.

IV. Is the prohibitory law a failure? How can it be made more effective?

One of the things in which Kansas is perennially interested is prohibition. For it involves a perpetual fight. If eternal vigilance is the price of liberty, how much more so of temperance!

The history of prohibition in the State is most interesting, commencing even in its early, struggling territorial days, full of action and incident.

The second paper will discuss briefly the different people who have been conspicuous in this movement. It will include people of all classes and degrees of enlightenment, with such names as Carrie Nation, Governor St. John, Reverend C. M. Sheldon, etc.

One very strange and interesting outcome of the prohibition struggle was the prayer crusades. These took place in many different States. Wives and mothers went from saloon to saloon and knelt upon the dirty floors, among the tipsy but respectful men, and prayed earnestly that this thing should be abolished. A paper or talk about this strange movement can not fail to be intensely and dramatically interesting.

For the last topic, a general discussion of the old, old subject, the efficacy of the prohibitory law, will be sure to draw into speech almost every member, no matter how diffident some of them may be. For the women of Kansas have a vital interest in this great question, which means so much to their sons and daughters.

The Dutch have a decided dislike for lazy people and have invented a way of curing men so inclined. If a man is found who is too lazy to work and too poor to afford to live a life of ease they put him in a large cistern and turn on the water. There is a pump in the cistern and if the man works the pump rapidly he can just keep ahead of the water and save himself from drowning. It is said that the average loafer needs but one dose of this cure.

To be good company for ourselves, we must store our minds well, fill them with happy and pure thoughts, with pleasant memories of the past and reasonable hopes for the future.—Selected.



Stylish wash-dresses

are made from Simpson-Eddystone Prints by women who want an attractive dress at small cost. This has always been possible with Simpson-Eddystone prints the standard calicoes of the United States for over sixty years. The patterns are artistic and beautiful; colors do not "run" and the material is serviceable.

Ask your dealer for Simpson-Eddystone Prints.

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

The Eddystone Mfg Co (Sole Makers) Philadelphia



Protected by Block Signals

The first railway in America to adopt the absolute Block System in the operation of all trains was the

Chicago, Milwaukee & St. Paul Railway

It to-day has more miles of road operated under block signal rule than any other railway company. The St. Paul Road was the first railway to light its trains by electricity, and now has more than 400 electric-lighted passenger cars in daily service. This is a considerably greater number than operated by any other railway. The St. Paul Road was also the first to adopt the steam-heating system, and its passenger trains are to-day the best heated trains in America.

The Southwest Limited leaves Kansas City, Union Station, 5.55 p. m., Grand Ave. 6.07 p. m. Arrives Union Station, Chicago, 8.55 a. m. This is the train that has taken first place between Chicago and Kansas City in its first year, and holds it.

G. L. COBB,

Southwestern Passenger Agent,
907 Main St., KANSAS CITY, MO.

KANSAS OIL

There is no section of America that is attracting the attention that the Kansas Oil Fields are to-day for profitable investments. Chautauqua County offers greater inducements than any other section of the State, because of the high specific gravity of its oil. Prospective investors will reap great benefits by writing to or calling upon

W. A. Barrington, - Sedan, Kansas

BREECH LOADING SHOTGUN

SEND US \$2.25 and we will send you this 12-GAUGE 30-INCH SINGLE BARREL BREECH LOADING SHOTGUN with the understanding and agreement if you do not find it perfectly satisfactory, one of the strongest guns



made, and equal to any gun made in shooting qualities. You can return it at our expense and we will immediately return your money. FINE STEEL BARREL, TAPER CHOKE BORED, PLAIN SHELL EXTRACTOR, TOP SNAP BREAK, PISTOL GRIP, PATENT BUTT PLATE, beautifully finished. Guaranteed one of the best single barrel breech loaders ever produced. WE BOUGHT 14,000 AT FORCED SALE and while they last will make the RIDICULOUSLY LOW PRICE of \$2.25. If you don't send \$2.25 for this gun, then on a postal card, or in a letter, say: "Send me your Free Gun Catalogue" and receive FREE, the MOST WONDERFUL BOOK ever heard of, the most astonishing offer ever known. \$1.29 per 100 for best 12-gauge loaded shotgun shells made; 19 cents per 100 for best 22 caliber shotguns ever made; \$16.03 for Winchester repeating shotguns; \$17.50 for Remington double barrel shotguns with steel barrels; \$16.25 for Marlin takedown shotguns; Best five shot automatic, selfcocking revolvers, \$2.75; liberal terms, easy conditions, wonderfully liberal offers, all free in this BIG BOOK. SEND FOR IT.

SEARS, ROEBUCK & CO., CHICAGO, ILL.

WHEN WRITING ADVERTISERS PLEASE MENTION THIS PAPER.

IS STATE SOCIALISM COMING?

(Continued from page 257.)

forth in Bellamy's "Looking Backward."

The Kansas State twine-plant was established to meet an emergency. It has saved considerable money to the farmers of Kansas. Economically, it is a success. As a precedent, it made possible the further deviation from the beaten path of Anglo-Saxon social ethics, in the enactment of the law providing for a State oil refinery to meet another emergency. If this law shall not be found unconstitutional, by the Supreme Court, the oil refinery will, doubtless, add another economic success. This can not fail to greatly reinforce the twine-plant precedent, and the two will constitute a telling example of what may be done in an economic way and as a curb upon the rapacity of the trusts. The argument will be diligently exploited by the Socialists. A great acceleration of the progress towards State socialism is to be expected as a result.

Whether the next development will take place in Kansas or in some other State, matters little. It is certain to be made, unless somewhere shall be found some other means of reducing the rapacity with which combinations, ranging from the bankers' combination in Wall Street through all grades to the most inconsequential conspiracy for the suppression of local competition, exploit the people's prosperity.

The competitive system, under which the unparalleled modern progress has been made, is on trial for its life. It behooves its defenders to show that it is capable of continuing its effectiveness as a remedy for tendencies acknowledged to be pernicious. Evidently it must be protected by potent legislative measures rigorously administered. If the laws can not protect the people in the enjoyment of the benefits of competition, then will the Socialists' demand for the substitution of community of interest, for enlargements of the functions exercised by the State, for the taking over of industries into ownership by the State be pressed to trial.

State socialism is largely a leap in the dark. Its imperfect historical precedents are against it as presenting conditions not suited for the best development of the self-reliant manhood upon which the greatness of any people must always depend. But, if the people are longer deprived of the equity of a "square deal," they will rapidly build upon the economic precedents of the recent past, forgetting the ethical lessons of all time, and will have State socialism, risking the remote consequences.

KANSAS CORN-BREEDERS.

The Kansas Corn-Breeders' Association held an adjourned meeting at the Agricultural College, Manhattan, on Thursday, Friday, and Saturday of last week. There was a goodly attendance of interested farmers from many parts of the State. The interest of the students of the college was manifested by their attendance.

The presence of the men who have furnished seed-corn of the varieties which have produced the largest yields in the variety tests at the State Experiment Station added greatly to the interest of the meeting. These are quiet men who did little of the talking but the display of samples of their corn on the table was "talk enough." Further, these men are entering heartily into the work of corn-breeding for the purpose of perfecting their varieties and supplying seed for other farmers.

The prize corn of the St. Louis Exposition was also exhibited. It was raised by a small farmer who, unfortunately, lives just two miles north of the Kansas line. But he was present and joined the Kansas Corn-Breeders' Association. While he is not many years from Switzerland and has some difficulty with our language, he was the most popular speaker at the meeting.

Valuable addresses were delivered by Prof. Geo. M. Tucker, formerly of the Missouri Agricultural College, now

manager of a plant-breeding farm at Blodgett, Mo.

Professors Ten Eyck, Willard and Roberts, of Manhattan, contributed valuable addresses.

The editor hopes to be able soon to print the various addresses as well as a stenographic report of the more valuable portions of the general discussions.

While the greatest interest in the Corn-Breeders' Association will be taken by those who are engaged or are expecting to engage in producing pure-bred seed-corn for sale, the information brought out at the meetings may be made valuable to every farmer in his own work of crop-production. The following from Professor Tucker's work is exceedingly instructive and may be applied in the practice of every corn-grower this season:

Fifty-six ears were selected as excellent. They were shelled and kept separate. Enough corn from each ear was used to plant a row of a given length. These fifty-six rows were side by side on land as nearly uniform as could be selected and were given identical treatment. The yields varied greatly. The row giving the lowest yield produced at the rate of something over 40 bushels per acre. The row giving the largest yield produced at the rate of over 160 bushels per acre.

The revelations made by carefully conducted experiments with corn are astonishing. Other ear-tests have yielded results corroborative of the above showing that the progeny of one grain may be greatly superior to that of another. (It will be observed each ear was the produce of a single grain.) Like produces like. It was not known what ancestral forces generated the grains whose produce yielded so well. In planting in rows, as in the experiment under consideration, the breeder is uncertain as to the male parentage of any grain of corn in any ear of the crop produced. There may, therefore, be grievous disappointment with the yield received from planting seed from the 160-bushel row. It is difficult to practice line-breeding with corn on account of the ready and wide distribution of pollen. It is suggested, however, that an approximation to line-breeding may be had by planting each ear in a block. The best corn on exhibition at the meeting contained about 1,200 to 1,250 grains to the ear. One thousand grains planted in a block should yield at the center of the block almost purely line-bred corn. From the three or four plots yielding 150 or more bushels per acre there might be selected several ears of superior excellence. These planted in a larger block should produce, at the center of the block, corn having a very great tendency for a large yield and safe from any evil effects of line-breeding.

This is a kind of corn-breeding that may be carried on by any farmer in his field. It calls for little extra care and almost no extra labor. The seed produced from the large block would plant a large field which should many times repay the little trouble experienced.

Why not begin now? Select a few ears from the best-yielding seed obtainable. Plant these in adjacent blocks staked off near the middle of a field of good land. Cultivate all well. Detassel every earless stalk before it produces pollen. Husk each block by itself and measure or weigh the corn. While husking observe carefully the size and shape of stalk and every other characteristic which makes a plant desirable or undesirable. Select the ears from the most desirable stalks near the center of each block. Tag the sacks in which these ears are kept, using a separate sack for each block. The most careful breeder will doubtless tag each of these ears as husked, noting on the tag every important characteristic of the plant. Keep this corn where it will be undisturbed by mice. Later, when there is leisure, study the record of each block. From the highest yielding blocks select with great care only such ears as are desired. If it is proposed to repeat the process, select a few of the very best ears from the centers of the very best

You can make better food with

Royal Baking Powder

ABSOLUTELY PURE.

Lighter, sweeter, more palatable and wholesome.

blocks for next year's experiments. The other choice ears from the centers of the very best blocks may be shelled together and used for planting a larger block. They may not be sufficient for a very large area, but they should produce seed enough for the entire planting of the third year.

The possibilities of improvement, especially in the yield, revealed by recent experiments, are so great and the methods are so simple that the corn-grower will have himself to blame if he shall not very soon greatly increase his profits.

THE KANSAS AGRICULTURAL COLLEGE CONTINGENT AT WASHINGTON, D. C.

For some time past the alumni, former students and professors of the Kansas Agricultural College who are now residing in Washington, D. C., have had an organization and an annual reunion of which the last one was held on the evening of February 8, 1905.

Of the fifty-four alumni and others named above who were known to be in the city on that occasion the forty-two whose names are here taken from the Industrialist, were present: Prof. G. H. Failyer, '77; Lewis W. Call, '83; Chas. L. Marlatt, '84; Lieut. O. G. Palmer, '87; D. G. Fairchild, '88; M. A. Carleton, '87; Julia R. Pierce, '90; Bertha (Winchip) Spilman, '91; Ed. H. Webster, '96; R. S. Kellogg, '96; C. F. Doane, '96; Mrs. Margaret (Carleton) Doane, '96; Mrs. Gertrude (Lyhan) Hall, '97; Wm. L. Hall, '98; E. C. Butterfield, '98; J. M. Westgate, '97; D. B. Swingle, '00; A. H. Leidigh, '02; A. B. Gahan, '03; Maude Failyer, '03; Corinne Failyer, '03; V. L. Cory, '04; Geo. F. Thompson, M. S., '02; Prof. A. S. Hitchcock, Mrs. A. S. Hitchcock, Prof. D. E. Lantz, C. S. Davis, Mrs. C. S. Davis and daughter, Will R. Spilman, Mrs. Lewis W. Call, Mrs. O. G. Palmer, Nellie Thompson, Mrs. E. C. Butterfield, Lois Failyer, Mrs. M. A. Carleton, Mrs. R. S. Kellogg, John F. Strouse, Mr. Pfeiffer, J. B. Corbett, May D. White, J. E. Dorman.

The New American Royal.

At a meeting held at the Midland Hotel this morning steps were taken to place the American Royal Live Stock Show on a permanent basis by incorporating it under the laws of Missouri. Heretofore the show has been conducted as a co-partnership by the four cattle-breeding associations and the Kansas City Stock Yards Company. Articles of incorporation of the American Royal Live Stock Show were prepared and signed and forwarded to Jefferson City to be filed with the Secretary of State. The capital stock is to be \$2,500, of which each of the cattle-breeding associations and the Stock Yards Company subscribes one-fifth.

The following are the incorporators: T. J. Wornall, Charles Gudgell, W. H. Weeks, Allen M. Thompson, and George Stevenson Jr.

Nine directors are provided for, two from each of the associations and one from the Stock Yards Company, as follows: Herefords, Charles Gudgell, Independence, Mo., and C. R. Thomas, Kansas City, Shorthorns, T. J. Wornall, Liberty, Mo., and B. O. Cowan, Chicago, Ill., Aberdeen-Angus, H. W. Elliott, Estill, Mo., and George Stevenson, Jr., Waterville, Kans., Galloways, Allen M. Thompson, Nashua, Mo., and C. N. Moody, Atlanta, Mo.

The first meeting will be held Tuesday, April 11, when officers will be elected. Representatives of the various cattle associations drew dates for sales at the three big shows this year, the result being as follows:

Minnesota State Fair, Hamline, Minn., Herefords, Wednesday, August 30; Shorthorns, Thursday, August 31.
American Royal, Kansas City, Shorthorns, Tuesday, October 10; Herefords, Wednesday, October 11; Galloways,

Thursday, October 12; Angus, Friday, October 13.

International, Chicago, Shorthorns, Tuesday, November 25; Herefords, Wednesday, November 26; Angus, Thursday, November 27; Galloways, Friday, November 28.

In regard to the participation of the swine and sheep associations in the show, it was voted to notify these associations that they would be given every facility for showing provided they hang up their own premiums.

It was voted to invite William McLaughlin to attend the meeting April 11 as the representative of the horsemen to discuss details of the horse department. Mr. McLaughlin having been appointed by the horsemen to represent them in connection with this year's show.

Those present at the meeting were: H. C. Duncan, Osborn, Mo.; B. O. Cowan, Charles Gudgell, C. R. Thomas, A. M. Thompson, H. W. Elliott, George Stevenson Jr., W. H. Weeks, and John M. Hazelton. In the absence of President Stannard, Mr. Gudgell presided, and in the absence of Secretary Wornall, W. H. Weeks acted as secretary.

The American Royal will be held October 9-14.

Gossip About Stock.

Intending purchasers of Galloway cattle who wish to buy the kind that will make money for them, should look up the ad of Dean Bartlett, St. Marys, Kans., whose offering for ready sale at attractive prices to buyers, consists of about fifty bulls, cows and heifers. Also thirty horses, high-grade Percherons and Cleveland Bays.

We call special attention to the announcement of Mr. J. R. Lusk, of Topeka, Kans., who proposes to enable our readers to have a fire department in their own home at a low cost. The protection is assured and guaranteed and the plan has the endorsement of fire insurance writers and chiefs of fire departments generally. Look up the announcement in this issue and write for particulars.

For some time I. M. Fisher, manager of the Fisher Live-Stock Co., for John W. Roat & Co., of Central City, Neb., have been advertising O. I. C. white hogs, but in a recent letter from Mr. Fisher he states that they have moved their location to Hastings, Neb., and will do business hereafter under the name of the Fisher Live-Stock Co. This gives them better shipping facilities and enables them to otherwise improve their accommodations for their increase in business.

One of our new advertisers of Berkshire swine is the firm of J. P. Sands & Sons, Walton, Kans. In a recent letter, Mr. Sands states that the young gilts that he is offering for sale were sired by Elma's Lee 2d by Star Lee by Star Light and Baron Lee 4th by Longfellow. The herd sires now in use are Baron Beauty Jr. 72642, bred by Harris & Mahan, and sired by Baron Beauty 45470, he by Columbia King and he by Ruby's Robin Hood. Another herd sire is Britania's King 81266, sire Elma's King. These herd boars show wonderful strength, and have procured for them a fine lot of produce, which they sell at reasonable prices.

John W. Jones & Co., R. F. D. No. 3, Delphos, Kans., are now offering about 20 head of large, smooth, heavy-bone, excellent-colored, strong-backed, up-on-their-feet, high-bred spring gilts and 5 yearling sows due to farrow early and possessing a great amount of style and finish. Just the very high-class stock which has built up the Famous Fancy Herd. It is justly entitled to its very appropriate name and place of prominence and is at the head of the procession of all those now leading the grand march onward and upward to the better development, upbuilding and perfection of this grand breed. You can be suited here both in stock and prices. Come and see them, or write them, describe what you want, and John W. will be pleased to answer you, or to meet you. He knows how to treat you and will give low prices to quick buyers. Write him to-day.

F. S. Swiercinsky, Belleville, Kans., breeder of Poland-Chinas and fancy poultry, advertises a bred-sow sale on March 21, 1905. This is perhaps one of the last sow sales of the season. The stuff that goes in this sale is not in show fix nor overloaded with fat. They are just in their everyday breeding condition and that means the best condition for getting the best litters. The herd is in the best of health and the animals are bred of the large-boned type. They are mostly of Tecumseh blood, granddaughters of Chief Tecumseh 3d and L. S. Tecumseh, and sows and gilts are bred to a great son of Blaine's Tecumseh, the hog that was a great sire in Blaine's herd. You will also find in this herd daughters of A's Corrected 30206, bred by E. E. Axline, Oak Grove, Mo., and owned by J. T. Paynter, Alton, Kans.

PILES

NO MONEY TILL CURED. 27 YEARS ESTABLISHED.

We send FREE and postpaid a 232-page treatise on Piles, Flatulency and Diseases of the Rectum; also 108-page treatise on Diseases of Women. Of the thousands cured by our mild method, none paid a cent till cured—we furnish their names on application. 8909 Olive Street, St. Louis, Mo., DRS. THORNTON & MINOR, and 1007 Oak St., Kansas City, Mo.



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is water-proof; not affected by heat or cold; fire-proof against all ordinary roof exposures. ANYONE CAN LAY IT.

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48-in. stock fence per rod only
Best high carbon coiled steel spring wire
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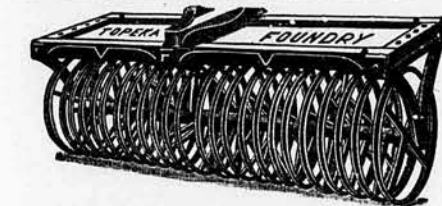
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There IS a Best
in fences as in everything else. Page Fences have reason for being the very best. Ask the reasons. Page Woven Wire Fence Co., Box 7841, Adrian, Mich.

CAN'T HURT IT STOCK PROOF
GRISWOLD SQUARE MESH FENCE
is scientifically built. We make the wire and weave the fence. Specially galvanised to last. Stay 6 or 9 in. apart. All heights for all purposes. Prompt shipments from factory. Free catalogue. Dillon-Grissold Wire Co., 57 Wallace St., Sterling, Ill.

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AT FACTORY PRICE.

A farmer knows what it takes to make a good fence. This ideal Hog Fence was invented on a farm by a farmer to supply his needs. Your needs are no different. It's just the thing for Hogs, and so very good for large stock that everybody wants it. Stay and line wires are inter-twisted. You Can't Slip Them. It costs so little because sold direct to you. Catalog free. FARMERS FENCE CO. Box 20 Melvern, Kans.



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and leaves the surface like powder to dry out by wind and sun then you should use the Topeka Foundry Packer.

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"I have tried all kinds of waterproof clothing and have never found anything at any price to compare with your Fish Brand for protection from all kinds of weather."

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This hog is probably one of the heaviest hogs in the State. Send for catalogue. You will be treated right if you come. If you can't come, send a bid to Col. John Brennan in care of Mr. Swiercinsky.

The A. B. Dille & Son's Poland-China sale this spring will be held at their farm near Edgerton, Kans., on Friday, March 17, 1905. The offering will consist of 30 sows and 18 boars, sired by some great boars representing the best blood of the breed. Corrector 2d, Grand Chief, Top Roller, Perfect Mischief, Iowa Chief and Proud Perfection 2d are among them and are surely a great group. Most of the sows are fall yearlings and spring gilts and all bred to some one of the boars named above. Mr. J. F. Hastings also contributes to this sale. Free entertainment and free catalogues to buyers. Read their advertisement on page 262 and be there with a bid.

A notable sale of Shorthorn cattle has recently taken place from the Whitewater Falls Stock Farm of J. W. & J. C. Aobison, Towanda, Kans. They have disposed of their entire herd of registered Shorthorn cattle, in order that they may devote their entire time and energy to their Percheron horses. Mr. H. M. Hill, of Lafontaine, Kans., is the lucky purchaser of the herd, and he also secured the Collyne bull that the Messrs. Robison purchased at the Wichita sale from Mr. S. C. Hanna, Howard. Among the other recent operations of the Whitewater Falls Stock Farm, are the recent purchase of the noted stallion, Iena, who was the sire of the yearling filly, Martha, that won first prize at St. Louis in her class in the Robison exhibit, and later sold for \$500. He was also the sire of the colt, Quality, that they showed and won with at the Missouri State Fair of 1903 and the International of the same year. Iena has been purchased to assist Casino at the head of their herd, which now numbers about 100 head since the Wichita sale. Mr. E. H. Parvin has just purchased of them a fine black stallion sired by Fantome 25972 (43683), who was one of the best breeding stallions ever imported from France by the Robisons. This colt is rich in the blood of old Brilliant and goes to head the fine band of mares owned by Mr. Parvin. The Robisons still have on hand a number of extra good young black stallions for sale.

Gladys Chief 152984, John McCoy's herd-bull that goes in the sale at Falls City, Neb., the 15th, is one of the good Scotch bulls of the West to-day and bred well enough to use anywhere. In family he belongs to the old and early popular Brawly Buds, tracing to Imp. Gladiolus by Pride of the Isles. Sired by Chief Justice 106824, his dam is Gladys, a Lockridge-bred cow, full sister to Lavender Viscount and half-sister to the great Lord Mayor. Her sire was of course that almost peerless breeder, Baron Lavender 3d, said to have been one of the most valuable bulls ever bred at Linwood. The second dam was Gayety by Viscount Richmond, one of the most noted sons of the Imp. Duke of Richmond. The third dam was Galliardia by Imp. Baron Victor. It is hard to conceive of a better backing for a bull, and individually Gladys Chief is also strong. At 5 years old he weighs 2,200 and is in the most perfect of health. The large number of his get in Mr. McCoy's herd show him to be a breeder of a large, roomy type of cow, a kind much in demand and none too plentiful. He is sold for no fault but simply because Mr. McCoy is keeping a younger bull to use on his heifers and does not want two herd-bulls on the place. Although Mr. McCoy would like to retain the bulk of the Gladys Chief heifers in the herd he is putting in the sale enough of them to show how the bull breeds, and the man who buys him will have a chance to know exactly what he is getting. Back of Gladys Chief in this sale will be an extraordinary lot of young bulls. Messrs. McCoy & Ludwig, who are making the sale, rarely fail to top the bull offering of any sale in which they consign and yet the writer who has seen nearly all their consignments can vouch for the fact that they never sent out a better one than this one will be. This line of bulls, about 20 head, including the herd bull, makes up one of the largest and strongest offerings to be sold this year and will justify the attendance at the sale of any one wanting either a carload, a single herd-header or a stock bull of any sort. Send for a catalogue to John McCoy, Sabetha, Kans.

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For one dollar, I will send postpaid to any address, my full and complete formula for making and using my celebrated dry powder fire extinguisher, the materials for which can be purchased from any druggist for a few cents per pound. So simple a child can operate them. Protect your homes, farm and ranch buildings, oil derricks and other structures. Don't pay extravagant prices for extinguishers not a whit better than mine. Its effects are instantaneous and certain. Entirely safe and as harmless as sugar to anything except fire which it destroys in the twinkling of an eye. Made in a few minutes at your home. Always ready. Never deteriorates. Keeps indefinitely in any climate. Supply your neighbors and others at a handsome profit. Splendid opportunity for farm boys to make some extra spending money. Don't delay. This offer may not appear again. Order to-day. You can not afford to be without this protection. Address, J. R. Lusk, Topeka, Kans.

Lady readers of the Kansas Farmer will be especially interested in securing the big, forty-page book, published by Dr. I. L. Meyer Co., 115 South Sixth St., Hiawatha, Kans., that is advertised on page 269. The Vita System has proven very successful and this company is backed by the best names and the best capital of the city for its reliability. A postal card will bring the large book, which tells all about it.

When writing advertisers please mention the Kansas Farmer.

Grange Department

"For the good of our order, our country, and mankind."

Conducted by E. W. Westgate, Manhattan, to whom all correspondence for this department should be addressed. Papers from Kansas Granges are especially solicited.
The Kansas Farmer is the official paper of the Kansas State Grange.

What's the Matter with Vinland?

[Can any subordinate grange in the State or in the United States show a larger increase in seven weeks either in per cent or numbers? Who is the next? Lecturers, secretaries, masters, anybody—tell us what you are doing in your grange. A copy of the FARMER will be sent to the lecturer of every subordinate grange for the benefit of the grange. Now hear from Vinland.—Ed.]

Vinland Grange No. 163, of Douglas County, is one of the oldest granges in the State. For years it has struggled along with an average membership of only about 30, which was our number at the beginning of the year.

Since then we have added 77 to our roll. At one meeting, January 21, the reinstatements and adoptions numbered 61. There are enough applications on file to raise our total to 112, which we consider pretty good for one winter's work.

The officers are as follows: Master, F. W. Cutter; overseer, Geo. Weller, lecturer, Mrs. Jessie Cutter; chaplain, P. Fenton; steward, P. H. Weeks; treasurer, John Walton; assistant steward, Chas. Medhurst; secretary, A. F. Allen; lady assistant steward, Mrs. Anna Walton; gate-keeper, F. L. Varum; Flora, Nellie Johnson; Ceres, Mrs. Belle Hill; Pomona, Mrs. Margaret Roe. JESSIE CUTTER, Lec.

Grange News.

EDITOR KANSAS FARMER:—I have received your letter regarding forwarding the KANSAS FARMER to me during the coming year, for which I will be very thankful. I received a copy and am well pleased with it and believe it is a paper that will be appreciated by every farmer. I will do my best to bring it into the hands of every farmer.

Our grange meets in the school-house at Rock Valley on Thursday night every two weeks. We organized a little over two years ago. We had about fifty members at first but some have left us. Brother Obryhim is in our neighborhood and was with us at our last meeting. He gave us a good speech. He went to Harmony, six miles east of here, to organize a grange last night. There were twenty names of those to become members. I believe they will have a good grange there. Every farmer should belong to the grange.

Madison, Kans. J. M. STAFFORD.

Death of Ephraim St. John.

He who knoweth no refusal has again sounded the alarm at our gate and summoned our beloved brother, Ephraim St. John, to the gathering beyond the river. By the death of Brother St. John this grange has lost one of its oldest, ablest, and most loved members, his family a model husband and father, and the State one of its most upright and honored citizens.

We grasp the hand of his bereaved wife and daughter in sympathy, knowing that words are cold and weak at times like this.

We direct our secretary to place these words on our records, send a copy to the family of the deceased, to the city press and KANSAS FARMER for publication and that our charter be draped in mourning for thirty days in honor of our late brothers.

E. W. WESTGATE,
STEPHEN B. BARNES,
J. F. SWINGLE,

Committee Manhattan Grange No. 748,
Patrons of Husbandry.

Have you thought of the Pomona Grange meeting? Think up some sensible suggestion for the "good of the order."

Grange precept: In essentials, unity; in non-essentials, liberty; in all things, charity.

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you have wondered what to do about some trouble you are having. I am almost certain of it. DR. MEYER'S big forty page book will tell you all about it. It will be sent FREE for the asking. I have cured thousands with my VITA SYSTEM and I can cure you. You will see by my agreement [page 40 my book] that if I was not sure I could effect a cure I could not afford to take your case. Better write for my book to-day while the matter is fresh on your mind. DR. I. L. MEYER CO., 115 S. 6th St. Hiawatha, Kans.

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In the Dairy

Experimenting With Dairy Cows.

Excerpts from Bulletin No. 125, Kansas Experiment Station, by D. H. Otis.
(Continued.)

Ground Wheat.—When corn is high wheat may be used as an economical feed for dairy cows. We have fed it in the place of corn and bran and obtained fully as good results from its use.

Bran.—Bran is frequently cheaper than corn, considering the amount of nutrients it contains, and is an admirable cow feed. This station has fed it at times as the sole grain ration, and at other times as one of the main components of a grain mixture, where other grains can be had at reasonable prices. We prefer using it in a mixture, and only when other grains are high in comparison do we use it as the sole grain.

Soy-Beans.—The soy-bean is a plant imported from Japan, and the grain from this plant is noted for its high content of protein and oil. It compares very favorably with oil-meal in composition, as will be seen from table XXVIII.

Table XXVIII.—Soy-beans and Linseed-meal Compared as to Digestible Nutrients.

Name	Protein.	Carbohydrates.	Fat.
Soy-beans.	29.6	22.3	14.4
Oil-meal.	29.3	32.7	7.0

Experiments at this station show that in most cases soy-beans can be made to take the place of oil-meal as a feed for dairy cows. During the summer of 1899 soy-beans were raised on the college farm in considerable quantities and were produced at a cost of \$18 per ton. During the following fall oil-meal was sold at \$28 per ton. This makes a saving of \$10 per ton to the farmer who grows his own oil-meal equivalent on the farm. Soy-beans are not very heavy yielders. Twelve to fifteen bushels per acre is a fair yield, and it is a question as to whether it will pay to grow them extensively in the alfalfa and clover districts, for the reason that protein can be furnished in these plants in much larger quantities and much cheaper per acre of land employed.

Soy-beans have the quality of producing softness in butter. An experiment was made at this station by making soy-beans one-half of the grain ration for the dairy cows, and the butter became so soft that it was impossible to work it satisfactorily after it was churned. Even though it was chilled with ice-water, it was impossi-

ble to mix the salt with the butter without having large and numerous streaks through it. This difficulty is not experienced when soy-beans form only a small part of the ration, and, as they are very rich, a small quantity is usually sufficient to furnish the nutrients required by the cow.

Cottonseed-Meal.—The college dairy heard has been fed cottonseed-meal rather extensively, but rather cautiously, with excellent results. In feeding it we have been careful to get the cows used to it very gradually, beginning with not over one-fourth to one-half pound daily per head. This allowance was gradually increased until the cows were consuming from three to five pounds daily per head. The cottonseed-meal had the opposite effect from the soy-bean meal: it hardened the butter, and in the winter-time had a tendency to make it crumbly. With soy-beans and cottonseed-meal available, it is possible for the private dairyman to so regulate the ration of his cows that he can produce butter of any desirable consistency.

Condimental Stock Foods.—The Kansas Station has made a careful trial of the Acme stock food, and the Globe stock food as feeds for dairy cows. The details of this experiment were published in Press Bulletin No. 88. A summary of the results indicates that these stock foods are of no special value to dairy cows accustomed to a good balanced ration. This experiment has been verified by the experiments of other stations, which have tested even larger numbers of stock foods. With financial gain as his object, it will pay the dairy farmer to confine himself to those feeds that have been thoroughly tested and whose merits are known, rather than to pay exorbitant prices for feeds which are, to say the least, of doubtful utility. The cows used in this test were in good health, and we had no chance to test the tonic effect on cows that were not in the best of condition.

IMPROVEMENT OF FEEDS FOR DAIRY COWS.

In the rations and tables that have been presented in this bulletin only average yields and composition have been given. No enterprising dairyman can be satisfied with averages. He will endeavor to cure his hay in the best possible condition. Alfalfa, for instance, that has been exposed to the rain loses almost one-half of its feeding value. Its composition also varies at the time of cutting. The largest amount of nutrients are found in the crop when it is cut about the time that one-tenth of the plants are in bloom, and what applies to alfalfa applies in the same manner to other forage crops. Considerable interest is being manifested of late in improving the feeding qualities of the different feeding stuffs by selection and breeding the plants. Much has already been done along this line, and undoubtedly a great deal more is to follow. Much good will come from watching these experiments along the line of improvement, and by applying this it is possible materially to increase the quality of our different feeds. This means that we will get more out of 100 pounds of feed, and the enterprising dairyman will study these problems so as to realize as much as possible by this means, and will always be ready to make use of new discoveries as soon as they are known.

DIGESTIBILITY OF MILK.

Some interesting experiments have been carried on at the Kansas Experiment Station in testing the digestibility of milk. Physicians tell us that milk must be coagulated in the stomach before it can be digested. The principle that coagulates milk is rennet. About one quart of milk was taken from each of several cows, and to each quart was added 1 c. c. of rennet extract. The time that it took these various samples of milk to coagulate was noted, and it was found that the milk from one cow would coagulate much quicker and in better shape than another. For instance, the milk of Zacona (No. 20), the best butter cow in the herd (bringing an income of \$70 to \$75 per year for dairy products, not including the calf), was almost impos-

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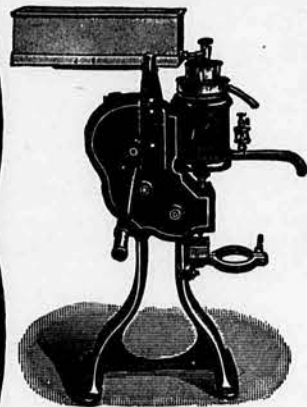
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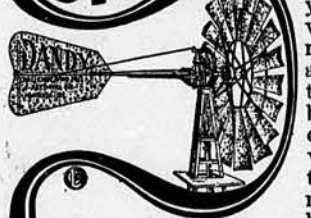
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from the tower, or when the wheel warps or buckles in the wind, or a short and delicate mast snaps off, then you realize that it would have paid well to have bought a better wind mill. The

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sible to coagulate, and when it did coagulate it was stringy, and not a nice, clean curd. The milk of the next best cow, on the other hand, coagulated quickly and in first-class shape. The other cows fluctuated between these two, some coagulating readily and others with great difficulty.

If it is true that the milk must be coagulated before it is digested, and the milk of some cows coagulates with great difficulty or not at all, it stands to reason that an infant or an invalid might starve on the milk of some cows and no one would know the reason why. In delivering milk to cities milkmen are frequently asked to bring the milk from the same cow each day for infants or invalids. If the cow happened to be one like the best butter cow of the college herd, it might be very disastrous to the infant or invalid using the milk. Without a digestibility test it would be much better to use the milk of a mixed herd than from any one cow.

In carrying on tests to determine the ease with which the milk from different cows coagulated with rennet, we found one pure-bred Ayrshire cow (Maggie of Woodroffe) whose milk would not coagulate at all with the ordinary amount of rennet, and it coagulated with exceeding difficulty with a large amount of rennet, and when it did coagulate it was not a normal coagulation. The station tested the feeding of this milk to a half-Guernsey steer calf. This calf was gradually changed from skim-milk to the whole milk from Maggie of Woodroffe. As soon as it had received as high as five pounds of this milk it was found to be scouring very freely, and seemed quite sick. As soon as this was discovered the milk from Maggie of Woodroffe was taken away from the calf. In three days he had recovered, and we again put him on the milk of Maggie of Woodroffe. He showed no signs of scouring for two weeks, when for several days he either refused to eat his grain or ate it very sparingly. Two days after the second siege of scouring he was changed to the milk of a pure-bred Guernsey cow (Countess Vesta) which coagulated very readily with rennet. The calf grew better at once and ate grain heartily. The milk from Countess Vesta was continued for two weeks, during which time the calf gained nine pounds the first week and twelve pounds the second week. At this time the calf was changed again to the milk of Maggie of Woodroffe, but this time it did not seem to affect him. The first week after this last change he gained thirteen pounds, and the second week he gained thirteen pounds, and appeared hearty and vigorous.

Farm Notes.

Old horses that have begun to decline in vigor require more food than the young or the matured.

The brood mare can do farm work and breed a colt at the same time but must not be overworked.

In nearly all cases, early planting should be shallow and late planting much deeper.

With all classes of stock the value of the feed is the same, whether it is supplied to the scrawniest of scrubs or the best of full bloods.

Nothing is so well adapted to the permanent improvement of the fertility of the farm as well managed barnyard manure.

The larger the animal the larger must be the sustenance ration, which must be deducted from the feed before the profit begins.

The form of the animal and the quality of the meat depend upon the breed, but the growth and development depend mainly upon the feed.

So much of the success of the year's work upon the farm depends upon the good health and consequent effectiveness of the work-horses that the utmost care should be taken of their feed and management.

Especially with horses that have been idle during the winter it is best to toughen their shoulders by daily baths of strong salt water. A little pains with this in time may avoid much trouble later.

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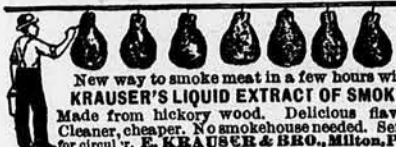
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The Poultry Yard

CONDUCTED BY THOMAS OWEN.

Cockerel Questions.

EDITOR KANSAS FARMER:—I have let my last year's Black Langshan roosters run with the hens until February 22, when I shut them up and turned the new roosters with the hens. Will you kindly tell me how long it will be until the eggs will be fertilized by the new roosters? Mrs. D. C. POOLE, Harlan County, Nebraska.

Answer.—Eggs will be fertilized within ten days by the new roosters, though if a rooster of another breed has been running with the hens previously, it would be well to wait two weeks before using the eggs for hatching.

Color of White Wyandotte Chicks.

EDITOR KANSAS FARMER:—Would you or any of the readers of the KANSAS FARMER please tell me the proper color for the White Wyandotte chicks? I ordered some White Wyandotte eggs last spring and the chicks that hatched out were all colors and some had single combs. When I wrote to the company, they said: "They could not account for that. And sometimes the Wyandotte would have single combs." But I have found out that the eggs from the single-combed Wyandottes hatch out black chickens. Ellis County. D. K.

Answer.—Pure-bred White Wyandottes will occasionally throw single comb chicks. It is a reversion to some single-combed progenitor. The chicks of White Wyandottes and other white breeds of fowls will quite often when hatched have dark feathers, but when the chicks are six weeks to two months old the dark feathers disappear and become perfectly white. If your White Wyandottes when mature have many dark feathers, there is something wrong with them, though an occasional dark feather appears in some of the purest bred.

Spring Work in the Poultry Yard.

The balmy, spring-like days of the latter part of February make one feel as if general spring were already here, and visions of fresh eggs, sitting hens and downy chicks haunt the mind. Whether it is better to set hens as early as this is an open question. Should the weather continue warm, and keep growing warmer week after week, it would be best to have your hens sit as soon as possible and hatch out chickens as early as you can. But if, after this warm spell, there comes a cold and wet spell of weather, it would be far better that your chicks were still in the shell, for the chances are if they are out, that they will be chilled, if not to death, at least so near it that death to the chick were preferable to a lingering existence of a few weeks; for a stunted chick never amounts to enough to pay for the feed it eats. So there you are—it all depends on the weather. But if we had lots of fresh eggs, and some sitting hens or an incubator, we would take our chances on the weather and try to hatch out some early chicks; and if cold weather should come, we would take extra care of them, provide a warm place for them at night and see that they did not get wet or chilled during the day. Early chicks are greatly to be desired, for they are the ones that we depend on for our fall and winter layers. Early chicks also are good eating about the fourth of July; and if you have too many for your own use, they will bring a good price in the market as broilers.

In the early spring some breeders, especially those who raise the large varieties of fowls, have trouble because of infertile eggs, very poor hatches being the rule. The trouble generally arises from the fact that the hens are too fat. They are so sluggish and lazy that the eggs do not get into proper condition to hatch. The remedy, of course, is not to feed them so much fattening food, especially corn. Feed wheat, or bran and corn

chop mixed with cut alfalfa or clover and it probably will remedy the evil. We have often noticed that though the first or second clutch of eggs from fat hens will not hatch, the third and subsequent ones will hatch all right, going to show that after the hens are reduced in flesh to some extent, the eggs are fertile again.

On the other hand, you can feed your fowls insufficient food, and because of that the eggs are not in proper condition for fertilization. We are not the one to advise the skimping of a chicken's food. After they once get to laying regularly, feed the laying hens all they will eat of a variety of foods. A hen that lays an egg every day, must have plenty of sustenance to keep up the waste of the body and provide the material for the egg. The great trouble with hens that are too fat is that they are fed too much of one kind of feed, usually corn. Therefore, if you would have fertile eggs, feed as various a mixture as you can afford and as much as the hens will eat. Of course, it goes without saying, that the fowls should always have plenty of pure water, and if confined to a yard should have grit or oyster-shells in order to grind their food; also material for egg shells in the shape of lime or old plaster. If the fowls have free range, it is not as necessary to provide these things.

Poultry Notes.

You can not raise a crop of poultry and a crop of lice on the same land. See that the lice are off your chickens so as to give them a good start in egg-laying.

Regularity in care and feeding means pullets that are regular in filling the egg-basket. You will not get eggs unless you see to it that the hens have the wherewithal to make the eggs.

The hen that scratches is the one that lays, and the chick that scratches is the one that lives. Therefore, give them their small grains in straw so that they must scratch to get them.

As the weather gets warmer we would feed less corn and more wheat, oats, and mixed feed. A variety is the spice of a hen's life and the cause of a well-filled egg-basket.

When the hen eats dried grass—which she will do when she can not get any green grass—it will, in a majority of cases, become closely packed at the orifice leading from the crop to the gizzard, and prevent the passage of the food into the gizzard. In such a case the hen dies of hunger, although her crop may be full. No remedy exists but to open the crop and empty the contents. After cleaning out the crop, wash with warm water and sew up the opening. Be sure that you have the obstruction cleared, for it is not in the crop but in the passage from the crop to the gizzard.

Since the use of wire fences has become so extensive, the number of cattle killed each year by lightning has greatly increased. Farmers' insurance companies have investigated the matter and now come forward with a warning to policy-holders. Nearly all of the cattle killed by lightning have met their death in open fields, where, in many instances, there was not even a tree to attract the electricity. As many dead cattle were found near wire fences, this led to the discovery that the lightning was carried along the wires composing the fences. During a severe storm cattle are liable to run until stopped by a fence. Here they stand huddled together ready for the bolt. A remedy is suggested in running a ground wire every ten rods several feet into the earth.

Eagles sometimes rise to a height of six thousand feet, and larks, crows, storks and buzzards often get up two thousand feet. But the average bird seldom goes one thousand feet above the earth.

You can help your fellowmen. You must help your fellowmen. But the only way you can help them is by being the noblest and best man that it is possible for you to be.—Phillips Brooks.

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The Veterinarian

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

Colic.—I have a good 5-year-old black horse that is sick at times. He lies flat for several hours at a time, rolling occasionally; he sometimes stands with his back slightly arched. His urine has a bad odor, and is thick, yellowish and slimy. He acts the same on wheat pasture as on dry. His hair is long and uneven and looks dead. He has a good appetite for both feed and water. How shall I treat him?
H. G. B.
Geneseo, Kans.

Answer.—Your horse probably has a combination of troubles. Would advise giving a good physic of a quart of raw linseed oil. Would then suggest that you give a handful of buchu leaves three times a day for a few days in some ground feed. Have the following prescription filled for a tonic for him:

Pulverized gentian, 4 ounces; pulverized iron sulfate, 1½ pounds; pulverized ginger, 1 pound; pulverized nux vomica, 9 ounces; oil-meal, 35 pounds. Mix thoroughly and give two and one-half ounces three times daily in ground feed.

Contagious Abortion in Cows.—I have lost 5 calves this spring; they are born from three to four weeks before time. What can I do to stop it?
Leonardville, Kans. C. L.

Answer.—If you will send us your name we will send our press bulletin on Contagious Abortion. The bulletin has been printed in the KANSAS FARMER, and the cause and treatment would take too much space to be given here.

Your other questions regarding plowing, etc., have been referred to the farm department.

Lump on Mare's Leg.—I have a bay mare 20 years old, but in good flesh and good life. Last September she got cut on barbed wire in front of hind hock; it was not a deep cut. I have been using liniments on it and it is almost healed, but is quite feverish and sore to the touch, with lumps under the hide, and if she makes a misstep she is lame. I would like to know the best thing to do for it.
A. R. J.
Roxbury, Kans.

Answer.—Probably the best treatment will be to keep the mare as quiet as possible until entire healing takes place; use any good disinfectant that you can secure, and heal the wound, then I feel confident that whenever the mare steps there will be nothing to cause lameness. If the lumps still remain under the skin would advise advise you to apply a fly-blister as follows:

One ounce pulverized cantharides; 1 ounce biniodide of mercury; 8 ounces of lard. Mix thoroughly. Clip the hair over the affected part and apply the blister with considerable hand-rubbing. Use sufficient of the blister to bring about a good blistering of the part. Three days after applying the blister grease the part. Keep the animal's head tied so she can not touch the blister with her mouth.

Killing Horns on Young Calves.—Will you please give the best method of killing horns on young calves, and at what age?
J. K.
Westphalia, Kans.

Answer.—At your drug store secure a pencil of sodium or potassium hydrate. Just as soon as you feel a lump on your calves' head indicating where the horn is going to form, clip the hair over this lump, moisten the pencil in some water and rub all over the place where the horn is going to form. It may need a second application in the course of a couple of weeks.

Caked Bag in Cows, and Barbed-Wire Cut on Mare.—I have several grade Shorthorn cows. About the time they do dry the bag cakes and sometimes breaks and runs and spoils the bag. What is the cure and cause?

It is not caused by not milking long enough. It begins while they are still giving milk.

I also have a 7-year-old grade Norman mare that got cut on barbed wire last fall below the fetlock. Proud flesh grew but by using caustic the place was healed. But on the inside of the foot below and not connected with the cut there was a swelling that broke and discharged; that has healed now but left a ridge just above the hoof; I used creolin first and hot water, then turpentine and camphor. She is not lame, and the bunch is not soft.
Ottawa, Kans. H. D. W.

Answer.—Apply the following to the affected udders of your cows:
Gum camphor, 2 ounces; vaseline or lard, 6 ounces. Melt together and stir until cool. Apply to the caked udder twice daily with considerable hand-rubbing.

For treatment for barbed-wire cut, see answer given A. R. J. in this issue.

Bloody Milk.—What is the cause of bloody or cloudy milk in cows? I have one which was affected in this way last year, and this year she is worse than last and I have another cow which is getting the same trouble. I have fed, all winter, shelled corn with a little bran and a small amount of cottonseed-meal; also plenty of good prairie hay and some good cane. My cows have a large lot to exercise in.
A SUBSCRIBER.
Greenwood County, Kans.

Answer.—It is a strange fact that cows that are perfectly healthy have in their milk bacteria which produce a reddish material making the milk look as though it were bloody, and many cows are censured for giving bloody milk, when in reality they are not. On the other hand, many cows get their bags injured in some way which causes the blood to come through in the milk. If your cows have injured their udders in some way, we advise using the following:

Gum camphor, 2 ounces; vaseline or lard, 6 ounces. Melt together and stir until cool. Apply to the udder twice a day with considerable hand-rubbing.

Ailing Calves.—During the last winter I had six calves which I fed with fresh milk for about two weeks, then fed milk mixed with separator milk with a little Kafir-corn meal in it. They did not do well, took cold and ran at the nose and coughed, and some of them scoured; two of them died early in the spring. I let the rest run in the stalk-fields as soon as it was warm enough, and by the time the grass was started they were looking very well; but in June one of the best of them began to foam at the mouth and scour. It soon died. This winter two more of them died the same way; one of them passed blood and matter and pieces of flesh as big as my finger, and now three more of them are sick. I have 14 that I stable at night and feed shelled corn night and morning, and a little alfalfa twice a week; I turn them out and feed cane and Kafir-corn fodder with the other cattle. I want to save them, if possible. What shall I do?
J. M.
Logan, Kans.

Answer.—It will be well for you to put your calves that don't seem to be doing just right by themselves, and if anything should be contagious about this trouble, you are safe in using preventive measures which it is always well to do. You had better feed some bran and cornmeal in which place the following tonic:

Pulverized iron sulfate, 1½ pounds; pulverized nux vomica 9 ounces; pulverized ginger 1 pound; pulverized gentian 4 ounces; oil-meal 35 pounds. Mix thoroughly and give 1 ounce twice daily in ground feed.

Ailing Hogs.—I have been losing hogs in what seems to me a very strange way; I have had a good deal of experience with hogs, but this is a new disease to me. The hogs that I am having the most trouble with are shoats weighing from 50 to 100 pounds. They eat and drink heartily most of the time; sometimes when they are fed they will mince around over their corn and leave it but will eat it the next time all right. At the time their appetite is poor, they look swollen as cattle or horses do when poisoned. If this is the case in the evening, in the morning they are dead. They look as



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CHOICE White Wyandotte cockerels; Eggs, 15 for \$1. John Park, Route 1, Oswego, Kans.

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POULTRY FEEDING AND FATTENING

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

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

TABLE OF CONTENTS

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

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\$1200 year and upwards can be made taking our Veterinary Course at home during spare time; taught in simplest English; Diploma granted, positions obtained for successful students; cost within reach of all; satisfaction guaranteed; particulars free. ONTARIO VETERINARY CORRESPONDENCE SCHOOL, Dept. 10, London, Canada.

Farmers' Sons Wanted with knowledge of farm stock and fair education to work in an office, \$60 a month with advancement, steady employment, must be honest and reliable. Branch offices of the association are being established in each state. Apply at once, giving full particulars. The Veterinary Science Association, Dept. 10, London, Canada.

though they had started to decay soon after death, and I think that strange this cold weather. These hogs have plenty of feed, good bedding and sheds, and get plenty of exercise, as they have a large field to run in. The feed consists of corn, and fresh water with copperas in it once a week, and I have given them some salts; the bedding is of hay, as that is all I have for this purpose this year. I noticed that two of the hogs that died had worms in the mouth and rectum. The sick hogs seem to be constipated, and the passages are hard and black, sometimes resembling buck-shot. I have opened some of them but found nothing wrong so far as I could tell. The large hogs have some lice but the smaller ones are not bothered. Most of them are in good flesh; some of them eat all the time but seem to gain very little, and are very poor.

Valley Center, Kans. H. S. M.

Answer.—From the description of the hogs I would suggest that you examine very carefully the next hog that dies to see if it is affected with worms. If you find that they are, have the following prescription filled:

Oil of turpentine, 4 drams; liquor ferri dialysatus, ½ dram; raw linseed oil, 6 ounces. Give this as one dose after the pigs have fasted for a short time. It may be given in feed. Repeat the dose in two weeks if necessary. The above is for a 100-pound hog; small hogs should receive a dose in proportion. Change the feed to bran and shorts and milk if you can spare it. We are sending you under separate cover a prescription for a tonic for pigs, which you had better feed them.

C. L. BARNES.

The Plainville, Kans., Breeders' Association Sale.

(Continued from page 263.)

R. L. Ordway, two head, \$72.50; Tucker & Gaunt, two head, \$72.50; Cockren & Sons, six head, \$87.50; N. E. Shaw, seventeen head (nine yearlings), \$118.09. The general average on the thirty-six head sold was \$96.04. Following is a list of the buyers: Wm. Mallott, Plainville; G. L. Schreiber, Osborne; Chas. Mayhew, Ed. Cross, Walter Sidwell, H. Keas, John Jones, John Coleman, E. P. Frisbie, Guy Ordway, A. W. Hall, Warner Parkhurst, Frank Hendle, J. N. Sawyer, O. G. Wilson, Joshua Craven, Geo. Benedict, Will Sauer, C. V. Ordway, Irvin McCune, and J. N. Sawyer, of Plainville; Jacob Hess, Hill City; Thos. Carrick, Hays; John Hoskins, Codell; B. F. Shirley, Zurich; Wm. Shively, Barnard; B. F. Shively, Zurich; Jas. Casey, Laton; Geo. Veverka, Zurich; Frank Dougherty, Codell; Propkop Pulec, Zurich; E. H. Lupton, Hoxie.

Spriggs' Blue Ribbon Sale.

Because of the unparalleled severity of the weather, at the time of S. A. Spriggs' blue ribbon sale, which was announced for February 15, at Westphalia, Kans., it became necessary for him to change the date to Monday, February 27. The writer has attended a vast number of sales in his time, but has never known a postponed sale to meet the expectations of the sellers. There was a goodly attendance of people in the sale-barn when the sale was opened by the auctioneers, but many of them did not appear to be buyers, in spite of the fact that Mr. Spriggs had a better offering this year in some respects than he has ever made before. The sale proved to be draggy and disappointing, and the prices very low. The top of the Percheron stallion sale was brought by Colonel 30993, who was No. 1 in the catalogue and sold to R. N. Donahan, Chiles, Kans., for \$1,000. The top of the jack sale was Grover Cleveland Jr., who sold to Wm. Heintz, Salina, Kans., for \$775. The splendid pair of Percheron mares, Keota Luciana 21704 and Keota Stripe 21711 brought a disappointing price, although their purchaser was lucky to secure them for \$720. They went to R. M. Scott, Murdock, Kans. Other purchasers of Percheron stallions were: W. A. Griffith, J. S. Eagle, and J. C. Maxwell, Westphalia; J. F. Bishop, Murdock. Percheron mares, R. M. Scott, Murdock; Oscar Olson, Brookville. Coach stallions, A. J. Smith, Colony; J. P. Dressler, Westphalia. French Draft, J. T. Felburn, Isabel. Mammoth jacks, Wm. Heintz, Salina; Thos. McGill, Blue Mound; J. C. Maxwell, Westphalia; Irwin Ulises, Westphalia; R. M. Donahan, Chiles; R. P. Lytle, Parsons. In addition to those catalogued, a number of Percheron mares and fillies were sold to J. M. Collins, Welda; T. C. McDowell, Lone Elm; and Wesley P. Lummis, Pleasant Hill, Mo.

Haub's Poland-China Bred Sow Sale.

On Tuesday, March 14, at Whiting, Kans., Mr. Herbert Haub will hold his annual sale of Poland-China brood sows. The sale will be held at the farm, about a mile from Whiting, and every provision has been made for the comfort and convenience of buyers. This is an extra good offering of highly bred animals that have been selected from the herds of such famous breeders as Will Lambing, Joe R. Young, John Bollin, Dietrich & Spaulding, Winn & Mastin, W. L. Hanna and others and bred to such boars as Perfection I Know 29830, Star Corrector 3636, and Potent 36345 by Missouri Black Perfection. All hogs are guaranteed and will be crated and delivered free at railroad stations. The terms of the sale are cash for all sums under \$20 and nine months' time at 6 per cent on bankable paper for sums

over that amount. Two-per-cent cash will be allowed on amounts over \$20. Whiting is on the Rock Island and Missouri Pacific forty miles north of Topeka. The sale will begin at 2.30 p. m.

Gifford's Shorthorn Sale.

The twenty-first annual sale of Elmwood Shorthorns, owned by F. M. Gifford, Milford, Kans., will be held at Manhattan, on Tuesday next, March 14. This offering of twenty-one cows and heifers safely bred and sixteen unusually precocious bulls will undoubtedly be the most representative breeders' offering of the year. The majority of the bulls are from the great red sire, Red Gauntlet 3d 147500, a richly-bred Cruickshank, and one of the very best bull sires owned in Kansas. The entire lot is of high individual merit, and probably will be the best offering from a breeder's standpoint of any offering to be made this spring. The cattle will be in good plight, ideal breeding condition, such as will prove a profitable investment for the purchaser. The pedigrees of the animals will show both Scotch and Bates lines of breeding of the best families. Breeders of Shorthorns are cordially invited to be present whether they wish to buy or not. Catalogue sent promptly on request.

Iams' Fagot (52453) Black Percheron Stallion, 4 Years Old, Weight 2,040 Pounds. One You Read About.

He is a "royal bred one"—one of the "select 400." A stallion of extra good individual form and finish, with 15-inch bone. He has a world of style—a "Kansas cyclone" in action. His form is "swell" enough to make all "competitors" "go way back" and sit down under the "bamboo tree." He will make one of these \$3,000 stallions "peddled" by "gold-brick stallion salesmen" look like "30 cents."

He is only a model of over 100 stallions now at Iams' barns that must be sold. Every one registered, approved, stamped. You say, Why can Iams sell these first-class imported stallions at such low prices? Iams is a practical, up-to-date business man. A "hustler" that does not wish the earth and a "gold chain" around it for profit on one stallion. He is an expert horseman, buys stallions by train-load, uses his own money, owns his horses, farms, barns, houses and stocks, has no two to ten men as partners to divide profits with, buys direct from breeders, employs no buyers, gold-brick salesmen or interpreters, buys and sells every stallion himself and sells more stallions than any man in the United States.

Here is the "milk in the coconut." It's up to you, Mr. Stallion-buyer. Visit Iams and it is dollars to doughnuts that if you can pay cash or give bankable note you will sure buy a stallion of Iams before you leave, as Iams has on his "selling clothes" and will save you more than a \$1,000 on a "ripper."

Write Iams for "eye opener" (it's warm) and greatest horse catalogue on earth. The whole family will cry for it and "mamma" persuade "papa" to buy a stallion of Iams and you will wear diamonds not the gold-brick salesmen.

One of the Wide-as-a-Wagon Stallions, the Real "Peaches and Cream" Sort

That are sold at \$1,000-\$1,500 at "Home of the Winners," the largest establishment of imported Percherons, Belgians, Coachers owned by one man in the United States. Frank Iams, St. Paul, Neb., sole owner—125 "Rippers" for sale.

In the good "old spring time" of 1905 is the "best time ever" to engage in the stallion business. There has not been a time in twenty-five years when the golden opportunities were so numerous for the stallionier to make \$1,000 or more for the services of first-class registered draft or coach stallions in three months and on an investment of only \$1,000 or \$1,500. Invest this amount in a real "Peaches and Cream" stallion such as Frank Iams, of St. Paul, Neb., sells to his many customers. He is saving thousands of dollars to the people in general. The produce from "Iams' noted stallions" are bringing money that is building big white houses and red barns, taking the mortgage off the farm, sending the boys and girls to college, educating the people so that they can make money easily in rain or sunshine.

Our illustration on first page is from the largest importing establishment of Percherons, Belgians, Coachers owned by one man in the United States. "The Home of the Winners" is noted the world over as the place where you can always find barns and barns full of "top notchers"—prize-winners by the score—the largest stallions of quality in the United States. "Sensational stallions" that are worth going 2,000 miles to see, and Iams sells these wide-as-a-wagon stallions at \$1,000-\$1,500. Guaranteed better than stallions sold to farmers' stock companies at \$2,500-\$5,000 each. Iams hangs up \$100 to you if you visit him and do not find this true and every statement in ad. or catalogue as represented and stallions as good or better than pictures in catalogue. Iams the Horseman is noted for always "having the goods" just as you read about.

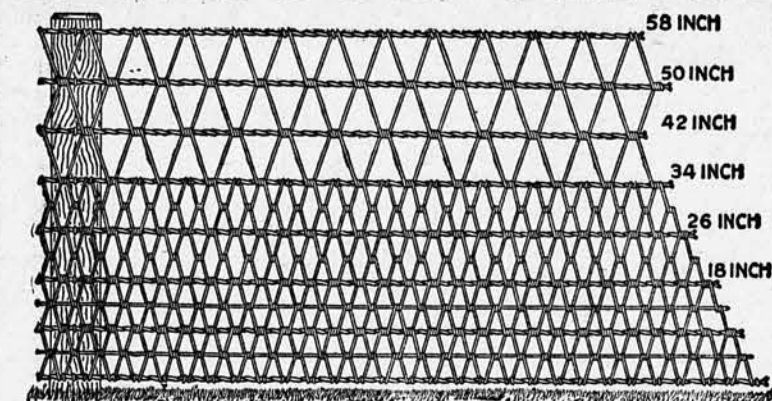
A Chance for the Small Poultry-Raiser.

Many people raise poultry without endeavoring to make it a business. If prices are any criterion, there is every incentive to increase the flock and the profit. George H. Stahl, of Quincy, Ill., the old-time incubator manufacturer, has sold hundreds of his famous 200-egg hatchers to people who are making good money with them. Of course some do not succeed as well as others, but with a hatcher like the Wooden Hen all elements of risk are avoided, as it is guaranteed to hatch every fertile egg, and the price, \$12.80, is within the reach of every one.

The poultry-raiser must always use care and judgment, and where this is done Stahl's Wooden Hen will prove a valuable assistant as money-maker.

The Stahl incubators have been on the market for years, and there are none better. Mr. Stahl issues a very attractive, interesting book on poultry-raising, which is sent free to all who ask for it, and may prove the means of adding materially to the readers' income.

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The Markets

Kansas City Live-Stock Market.

Kansas City, March 8, 1905.
The movement of cattle to the five Western markets was moderate, being practically the same as on last Monday, but slightly less than a year ago. A strong feeling prevailed and in some cases prices were 5@10c higher. The grecker interest was manifested in the stocker and feeder trade. Prices ruled 10@15c higher and the present prices are the highest in two years. The movement of hogs was smaller than on last Monday, with prices 5@7 1/2c higher. Sheep receipts were fairly liberal and prices ruled weak or 10c lower.

About 8,200 cattle were on sale. Choice to prime beef steers were scarce. Medium grades of beef steers were not plentiful. Trade opened early and competition was keen. Prices ruled steady to 10c higher and an early clearance was made. Few offerings were good enough to sell above \$5.

Good cows and heifers were scarce. Medium grades were in limited supply. Prices ruled steady to strong. Veal calves were scarce and firm. Canner grades sold slowly at about steady prices.

The demand for good, heavy feeders and choice stockers was fully as strong as the opening last week, notwithstanding the advance in prices. Sales were quoted strong to 15c higher. The bulk of the early arrivals were stock grades. Stock cows, heifers and calves were in fair demand at firm prices. Some light weight feeders sold at \$4.75 and stockers at \$4.50.

Over 1,600 cattle were on sale in the quarantine division. The market was strong to a shade higher. The best steers sold at \$4.50@4.70.

There were 8,600 cattle, including 400 calves, in the pens here, of which 6,965 were in the native division and 1,635 Texans.

Smaller receipts of hogs than expected at the five Western markets resulted in an advance of 5@7 1/2c in prices, and trade was active. Several loads sold at \$5.07 1/2, the top price, and the highest paid since the middle of February. Small pigs were in limited supply and ruled a shade higher.

Chicago had 37,000 hogs, against 43,000 estimated. For Tuesday 32,000 are expected. Sales there ranged from \$4.70@5.17 1/2, against \$4.50@5.15 Saturday. Omaha had 4,500, and sales ranged from \$4.65@5, against \$4.60@4.95 Saturday. St. Louis had 6,000 and sales ranged from \$3.75@5.15, the same as Saturday. St. Joseph had 4,700, and sales ranged from \$4@5.07 1/2, against \$4@5 Saturday.

There were 7,200 hogs in the pens here. The extreme range of sales was from \$4 @5.07 1/2 and the bulk of sales from \$4.90@5.05, against \$4@5.02 1/2 for range of sales and \$4.85@5 for bulk of sales Saturday.

About 4,500 sheep were in the pens up to 10 o'clock with as many more expected to arrive later. Dressed meat men opened the market with steady bids and bought slowly. When the supply exceeded the estimate they cut prices 10c. The quality was plain, but more noticeable on lambs, the bulk of which sold around \$7. A few ewes and wethers brought \$5.50 and yearlings \$6.30. The receipts at the five markets were 62,000, the largest of the year. Chicago had 28,000, Omaha 14,000, St. Louis 1,000, and St. Joseph 10,000.

Cattle—Receipts since Saturday, 8,200; calves, 400; shipped Saturday, 482 cattle, 3 calves.

Comparative receipts at all markets:

	Y'day	A week ago	A year ago
Kansas City	8,600	7,600	5,025
Chicago	27,000	28,601	29,983
Omaha	3,200	3,256	3,263
St. Louis	2,500	4,000	5,497
St. Joseph	1,200	1,103	2,617
Totals	42,500	44,560	47,285

The market was strong to 10c higher.

Kansas City Grain Market.

Mills, elevators and shippers were fair buyers of car lots of good wheat. Offerings were fairly large. Sales were made at unchanged to 1/4c higher prices. Some samples remained unsold at the close.

The railroads reported 131 cars of wheat received, compared with 119 cars a week ago and 115 cars a year ago. Sales of car lots by sample on track, Kansas City: Hard wheat—No. 2, 1 car \$1.09, 1 car \$1.06, 8 cars \$1.05 1/2, 5 cars \$1.05, No. 3 hard, 1 car \$1.06 1/2, 5 cars \$1.06, 5 cars \$1.05, 8 cars \$1.04 1/2, 5 cars \$1.04, No. 4 hard, 2 cars \$1.04, 1 car \$1.03 1/2, 7 cars \$1.03, 10 cars \$1.02, 1 car \$1.01 1/2, 4 cars \$1.01, 2 cars \$1.00 1/2, 2 cars \$1, 1 car 90c, 1 car 98 1/2c, 5 cars 98c, 1 car 96c. Rejected hard, 1 car 96 1/2c, 1 car 90, 1 car 88c. Soft wheat—No. 2 red, nominally \$1.07@1.10, No. 3 red, 1 car \$1.04, 1 car mixed, Oregon, \$1.09, No. 4 red, 1 car \$1.02, 1 car mixed \$1.02, 1 car mixed 98 1/2c, 1 car 98c, 4 cars mixed 98c, 1 car 97c. Rejected red, 1 car 98c, 1 car 93c, 1 car 90c.

Corn was in good demand and sold at unchanged to 1/4c higher prices, mostly 1/4c up. Receipts were large, but offerings on the floor were only moderate. The railroads reported 171 cars of corn received, compared with 137 cars a week ago and 71 cars a year ago. Sales of car lots by sample on track, Kansas City: Mixed corn—No. 2, 7 cars yellow 46 1/2c, 2 cars yellow 46 1/2c, 1 car yellow 46c, 1 car 46 1/2c, 7 cars 46c, 15 cars 45 1/2c, 7 cars 45 1/2c, No. 3, 1 car 45 1/2c, 9 cars 45 1/2c, 3 cars 45 1/2c, No. 4, 1 car choice 45c, 1 car 44c, nominally 40@45c. White corn—No. 2, 1 car 47c, 1 car 46 1/2c, 13 cars 46 1/2c, No. 3, 5 cars 46 1/2c.

Oats prices were firm. Receipts were the largest for some time past, but most of the arrivals were applied on contracts. The railroads reported 50 cars of oats received, compared with 3 cars a week ago and 38 cars a year ago. Sales of car lots by sample on track, Kansas City: Mixed oats—No. 2, 3 cars 32 1/2c, 3 cars color 32 1/2c, 1 car color 32 1/2c, 9 cars color 32c, No. 3, 1 car 32 1/2c, 2 cars color 32 1/2c, nominally 31 1/2@32 1/2c. White oats—No. 2, 3 cars 33c, 2 cars 32 1/2c, No. 3, 1 car 32 1/2c, 5 cars 32 1/2c, 1 car 32c.

Rye—No. 2, 1 car 78c.
Corn-chop—Nominally 90c, in 100-lb. sacks.
Flaxseed—Nominally \$1.18 1/2 per bushel.
Timothy—Nominally \$2.75 per 100 lbs.
Bran—1 car 86c, in 100-lb. sacks.

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.

FOR SALE—8 Scotch Shorthorn bulls from 10 to 30 months old, all red. J. J. Thorne, Kinsley, Kans.

FOR SALE—Aberdeen - Angus cattle, registered bulls, cows or heifers. J. L. Lowe, Erie, Kans.

FOR SALE OR EXCHANGE—For another of same kind equally as good, my registered Hereford bull, Farmer #4854, calved Dec. 20, 1897. S. O. Thompson, Route 2, McPherson, Kans.

FOR SALE—A 2-year-old solid red Shorthorn bull, Guardsman 206476, by Charming 4th; also 2 Thistle-top cows. Address J. P. Engle, Alden, Rice County, Kans.

FOR SALE—Shorthorns—Our herd bull, Greenwood 165865 and 8 young bulls, all Scotch-topped. Brookover Bros., Eureka, Kans.

FOR SALE—A registered Red Polled bull, 30 months old, weight 1,600 pounds, in good condition, will guarantee him a breeder; price, \$100. For pedigree or other information address W. E. Brockelshy, 815 E. Hancock, Lawrence, Kans.

FOUR GOOD HEIFER BULLS, 15 to 20 months, at reduced prices if taken at once; also a few younger ones. A. Johnson, Clearwater, Kans.

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

FOR SALE—Shorthorn bulls, 11 to 18 months old, sired by Godoy Butterfly 142556; two are Rose of Sharon, one Wild Eyed and one Lydia Languish; none better bred and few better individuals; each one out of an extra good big cow; will sell my herd bull, Godoy Butterfly, having used him 4 years. E. S. Myers, Chanute, Kans.

FOR SALE—Eight good, registered Shorthorn bulls, four straight Crocker, good ones, and prices right. H. W. McAfee, Sta. C, Topeka, Kans.

FOR SALE—A 3-year-old Shorthorn bull, sired by Royal Bates. Address Dr. N. J. Taylor, Berryton, Kans.

FOR SALE—2 choice Hereford bulls, 22 months old; something good. Call on or address A. Johnson, Route 2, Clearwater, Sedgewick Co., Kansas.

HORSES AND MULES.

82 HORSES FOR SALE at a bargain by Dahlgren Bros., Cheyenne Wells, Colo.

FOR SALE—Five high-grade Percheron stud colts, two coming 2 years old, weight, 1,450 pounds; three coming 1 year old. Two are thirty-one thirty-seconds. One fifteen-sixteenths, and two are seven-eighths. Would sell cheap if anyone can use the whole lot. C. M. Garver, Abilene, Kans.

WANTED—To trade standard bred stallion for a good jack. Six stallions to choose from. J. T. Axtel, Newton, Kans.

FOR SALE OR TRADE for other stock; three fancy saddle stallions, 4 and 6 years old; four serviceable jacks, 1 and 4 years old. Address Fairview Stock Farm, Route 3, Hartford, Kans.

FOR SALE CHEAP—Or trade for cattle, one Mammoth-bred jack, 4 years old, black, good performer, a breeder; one Norman brown stallion, 1,300 pounds, 10 years old; one trotting-bred stallion by Silkwood, 16 hands, weight 1,200 pounds, 4 years old, sure breeders. J. C. Hentzler, Route 2, Topeka, Kans.

FOR SALE OR TRADE—One large, black 4-year-old jack, sound, good bone, good actor, and sure. Address Lock Box 63, Sterling, Kans.

FOR SALE—Imported Shire horse, weight 1,800 pounds; Black arrior Jack, 15 1/2 hands, weighs 1,000 pounds; both in fine shape; will sell cheap. C. J. Patterson, Duquoin, Kans.

FOR SALE—A grandson of Lord Russell, 4 years old bay, smooth, stylish, fearless and well broken; has never seen track or sulky; can surprise you with speed; perfectly sound; offered for no fault; a low price if taken soon. Address Jno. W. Yeoman, Lyndon, Kans.

FOR SALE—A Registered Percheron stallion, All race. A splendid sire, mahogany bay, easy terms. Address, J. H. Pennick, Menoken, Kans.

LEAVENWORTH COUNTY JACK FARM. 5 miles north of Easton; 20 jacks and jennets for sale. O. J. Coraon, Potter, Kans.

EIGHT REGISTERED PERCHERON and French Coach stallion and one large black jack, cheap for cash, to close them out by April 1. H. C. Staley, breeder, Rose Hill, Butler County, Kans.

FOR SALE—Black Mammoth Jack, with white points, 8 years old, good breeder, can show colts, easy handled, quick service. \$175 if taken at once. A. E. Cooper, Route 1, Miami, Indian Ter.

FOR SALE—A registered black Norman stallion, weight 1,800, coming 6 years old; also a three-quarter grade, coming 5 years old, weight 1,600, a good individual and breeder. R. E. Casad, Ochelutree, Kans.

STRAY MARE—A black mare came to Wm. Cook's residence, one-half mile east of the city of Downs, Kans., on or about the 10th day of October, 1904, weight about 900 pounds, age about 8 years, worth, \$40; branded on the left shoulder, owner or owners will please come prove property and pay expenses.

PATENTS.

J. A. ROSEN, PATENT ATTORNEY
418 Kansas Avenue, Topeka, Kans.

Shorts—Nominally 90@95c, in 100-lb. sacks.

Millet—German, \$1.40@1.50; common, \$1.25 @1.35 per 100 lbs.

Red clover and alfalfa—\$9@11.50 per 100 lbs.

Cane-seed—\$1.40@1.50 per 100 lbs.
Kafir-corn—Nominally 80@85c per 100 lbs.
Linsseed cake—Car lots, \$27 per ton; ton lots, \$28; per 1,000 lbs., \$15; smaller quantities, \$1.60 per cwt. Bulk oil-cake, car lots, \$26 per ton.
Castor beans—\$1.35 per bushel, in car lots; \$1.40 less than car lots.
Barley—No. 3, 1 car 39 1/2c, 1 car 39c.

When writing advertisers please mention the Kansas Farmer.

SWINE.

FOR SALE—Say! I have some fine, big-boned, broad-backed Berkshires, brood sows or pigs. Want some? Write me; turkeys all sold. E. M. Melville, Endora, Kans.

CENTRAL Kansas Stock Farm has for sale cheap, splendid Poland-China boars and gilts, May and June farrow, sired by Corrector Woodburn, and K. O. Perfection, out of Sunshine and Tecumseh sows. E. J. Knowlton, Prop., Alden, Rice Co., Kans.

FOR SALE—Boars for immediate use. Sons of Perfect I know, out of daughter of Ideal Sunshine. Geo. W. Maffet, Lawrence, Kans.

SEEDS AND PLANTS.

FOR PRICE LIST of small fruit plants. Address Wm. Brown & Sons, Lawrence, Kans.

SEED CORN—Both white and yellow at 90 cents per bushel; cane millet and Kafir-corn seeds. Prices and sample on application. Adams & Walton, Osage City, Kans.

SPELTZ—Pure cleaned seed, 85 cents per bushel with sack. Farmers plant your waste corners with Mammoth White artichokes. The yield will surprise you. Cheapest and healthiest food for hogs; 80 cents per bushel sacked. Fred Pacey, Miltonvale, Kans.

ASPARAGUS PLANTS—Palmetto and Barr's Mammoth, two best varieties. Every home garden should have a bed of this early, heartful and delicious vegetable; succeeds everywhere; endures a lifetime. 1-year-old plants, by express, 50 cents per 100. James C. Jones, Leavenworth, Kans.

SEEDS WANTED—There are many inquiries for seeds adapted to various parts of Kansas: Black Hulled White Kafir-corn, different varieties of oats, corn suited to localities, etc., are in demand. Those who have such for sale may make profits for themselves and confer benefits on others by advertising in this column.

ALFALFA SEED—J. T. Axtel, Newton, Kans.

FOR SALE—Choice alfalfa seed, guaranteed pure. For prices write J. E. Fife, Newton, Kans.

FOR SALE—Speltz, 60 cents per bushel; Soy Beans, \$1.25; Red Kafir corn, 50 cents; sacks free in 10 bushel lots. Seed extra nice and clean. C. M. Garver, Abilene, Kans.

FOR SALE—300 strawberry plants, five kinds, early, mid-season and late, for \$1; 100 Kansas raspberries, \$1. 25 Concord grapes, \$1; 200 Palmetto asparagus, \$1. A. J. Nicholson, Manhattan, Kans.

STRAWBERRY PLANTS—Best varieties, low price. J. H. Wendell, Route 5, 2 1/2 miles north on Central Ave., Topeka, Kans.

ALFALFA SEED, \$7. J. Glenn, Wallace, Kans.

FOR SALE—Pure Kuhnaka macaroni seed wheat, \$1 per bushel. Hayes Moyer, Ludell, Kans.

WANTED—Cane, kafir-corn, millet, alfalfa, clover, English blue grass and other seeds. If any to offer send samples and write us. Missouri Seed Co., Kansas City, Mo.

50,000 TREES AT HALF PRICE—First-class apple, plum, cherry. Plants, shrubs at wholesale. Peach trees, \$10 per thousand. Freight prepaid anywhere. Catalog free. Seneca Nursery, Seneca, Kans.

SHEEP.

WANTED—For Western Kansas ranch, 500 to 1,000 ewes bred to lamb about May 1. F. A. Lonner, Webster, Iowa.

FARMS AND RANCHES.

FOR RENT—118 acre farm near Grantville, Kan.; Topeka, 7 miles; no danger of floods, good buildings, fine well, large orchards, fencing, etc. References. H. E. Thomas, 1738 Washington Street, Kansas City, Mo.

BARGAINS in good grain, stock and alfalfa farms. J. C. Burnett, Emporia, Kans.

FARM of 320 acres for sale, well improved, fenced, good buildings, 75 acres in alfalfa. Address Ellsworth Fife, Route 5, Newton, Kans.

TWO SNAPS—160 acres, 130 acres cultivated, 65 acres wheat, one half goes, 5-room house, other farm buildings. Price \$2,800; \$500 down, balance in payments 250 Acres farm, 155 acres cultivated, 6-room house, barn and other out-buildings. Price \$20 per acre. Write us when you come to see these. Garrison & Studebaker, Minneapolis, Kans.; also office at Florence, Kans.

FIFTY farms in Southern Kansas, from \$15 to \$70 per acre; can suit you in grain, stock or fruit farms. I have farms in Oklahoma, Missouri and Arkansas for sale or exchange. If you want city property, I have it. Write me, I can fix you out. Wm. Green, P. O. Box 968, Wichita, Kans.

A DESIRABLE FARM on the road from Topeka to Burlington, for sale or rent, 150 acres, has K. F. D., new school and church. For particulars address W. C. Thomas, Odessa, Delaware.

I HAVE a section in a body, 160 acres of it creek bottom hay land, 60 of this bottom is good alfalfa land, 100 acres level farm land, one mile of creek, fenced and cross-fenced, good 4-room house, 12 by 16 hay mow, 12 by 16 lean-to stable, telephone, daily mail, 8 miles to Meade, 1 1/2 miles to school. Price, \$4,000; one-half cash, balance any kind of time at 7 per cent. E. H. Boyer, Meade, Kans.

FREE LIST—California farms, ranches, Write National Clearing House, San Francisco, Cal.

FOR TRADE—200-acres improved near county seat, central Tennessee; fine. Also Franklin county, Kansas farms to sell. Buckeye Agency, Route 2, Williamsburg, Kans.

SOME GOOD BARGAINS—160 acres, 40 acres bottom, fine orchard, \$3,500; 320 acres, \$4,000 worth of improvements, \$6,500; 320 acres, 70 acres bottom, well improved, \$6,200; 240 acres nice smooth land, good improvements, \$3,500; 400 acres, 170 acres of first and second bottom in cultivation, \$5,000; 444 acres, 110 acres in cultivation, \$11 per acre, one-fourth cash, balance to suit. Grass land in any sized tract from 160 to 4,000 acres, from \$10 to \$12.50 per acre. Try us. Garrison & Studebaker, Florence, Kas Office at Minneapolis, Kans., also.

FOR SALE—200 acres fine pasture land, 175 acres of it is mow land, two miles from Alma, living water that never fails, all fenced. This is a bargain if taken soon. Call on or address Mrs. M. A. Watts, Alma, Kans.

MARION COUNTY BARGAINS—160 acres, 5 1/2 miles from county seat, 4-room house, barn 44 by 18 feet, with shed addition, 11 acres alfalfa, 40 acres pasture with spring, balance all good farm land, part bottom. Price, \$5,200. 400 acres, finely improved, all good land except 20 acres, which is a little stony, will sell on easy terms, or will take smaller farm as part payment. All kind and sized farms for sale. Let me know what you want to buy, sell or trade. A. S. Quisenberry, Marion, Kans.

FARMS AND RANCHES.

LAND FOR SALE.
In western part of the great wheat state. H. V. Gilbert, Wallace, Kans.

IMPROVED FARMS, ranches, alfalfa farms, pasture lands, Osborne, Russell, and Rooks Counties, Kansas. Mercantile stocks to sell or trade. Correspondence solicited. Write to-day. Oils & Smith, Natoma, Osborne County, Kans.

75 A1 FARMS FOR SALE in Harvey County, Kan.—S. D. Williams, of Harvey County, Kansas, can sell you any kind of a farm you desire, from eighties to whole section. Many of these farms have running water thereon, some of them highly improved, others moderately. Correspondence solicited. Address S. A. Williams, Newton, Kans.

CHEAP HOMES in Southern Arkansas and Texas; no winter, fine health, good water, good crops of cotton, corn and all kinds fruit in abundance; good schools and churches; can get excursion rates for home-seekers there.

I have fine bargains in land near this city; also in city property. I want 100 salesmen to handle a swift-selling article. Something new. A hustler can make big money. If you are interested in any of above, enclose stamp, write to
D. A. Williams,
2046 North Main St.,
Wichita, Kans.

FARMS For rich farming and fruit-growing Write J. D. S. Hanson, Hart, Mich.

A BARGAIN

in the Ozark fruit belt

Forty acres, all under cultivation, 2 houses, barn, cellar, 2 cisterns, store-house, poultry houses and yards, 900 fruit trees, one-half mile from school, 2 miles from County seat. Price, \$1,200. Full particulars for the asking about this and other bargains, \$5 per acre and upwards.

W. J. Hodges, Cassville, Mo.

LAND IN THE OIL DISTRICT

We have land from \$5 to \$50 per acre in tracts of 160 to 1,500 acres. List your property with us. We sell or trade everything. Money loaned. Farms rented and rents collected.

ENLOW & CO.,
Elmdale, - Kansas.

FARM LOANS

Made direct to farmers in Shawnee and adjoining counties at a low rate of interest. Money ready. No delay in closing loan when a good title is furnished and security is satisfactory. Please write or call.

DAVIS, WELLCOME & CO.,
Stormont Bldg., 107 West 6th, Topeka, Ka



CASH For Your Real Estate or Business Anywhere
I Can Sell It; I MEAN IT
Send me Description and
LOWEST CASH PRICE today
W. E. MINTON.
New England Bldg., Kansas City, Mo.

I CAN SELL YOUR FARM, RANCH OR BUSINESS, no matter where located.

Properties and business of all kinds sold quickly for cash in all parts of the United States. Don't wait. Write to-day, describing what you have to sell and give cash price on same.
A. P. TONE WILSON, Jr.,
Real Estate Specialist
413 Kansas Ave., Topeka, Kans.

MISCELLANEOUS.

HOME CURES—Cataract and cancer cured by painless absorption guaranteed. Rheumatism, Indigestion and epilepsy, hydrocele, varicose, stricture. Consultation free. Write Davis Health Specialty Co., 334 N. Y. Life Building, Kansas City, Mo.

STRAYED—A Scotch Collie (Shepherd) dog, 1-year-old; "Teddy" wearing new collar without name. Liberal reward. Mrs. E. W. Poludexter, 911 West 8th Street, Topeka, Kans., or Will Caldwell, Route 2, Topeka, Kans.

WANTED—Responsible position on farm by practical working farmer. The science of agriculture in all branches understood and applied; accounts accurately kept; married; no children; state requirements and salary in first letter. References given and required. F. C. Johnson, Hastings, Nebr.

NOTICE—In hereby given, that the name of the Farmers Mutual Hall Insurance Association, having its principal office and place of business in the City of Topeka, County of Shawnee, and State of Kansas, has been duly changed, according to the provisions of the Statute in such cases, made and provided, to the Grain Growers Hall Insurance Company. W. F. Bagley, President of said Corporation.

HONEY—New crop, water white, 8 cents per pound. Special prices on quantity. A. S. Parson, Rocky Ford, Colo.

FOR SALE—Second-hand engines, all kinds and all prices; also separators for farmers own use. Address The Geisler Mfg. Co., Kansas City, Mo.

The Stray List

Week Ending February 23.

Woodson County—Fred Jackson, Clerk.
MARE—Taken up by S. Archer, in Perry tp., Jan. 23, 1905, one brown mare, about 7 years old, weight 700 pounds, star in forehead, left hind foot white; valued at \$50.

Week Ending March 2.

Pottawatomie County—C. A. Krutzmacher, Clerk.
HEIFER—Taken up by Wm. Koltermann, Mill Creek tp. (P. O. Onaga), Feb. 18, 1905, one red, white-spotted heifer, silt in right ear; valued at \$12.

Wichita County—F. G. Jones, Clerk.
CATTLE—Taken up by Jesse Buncy, in White Woman tp., Dec. 18, 1904, one black cow, between 6 and 8 years old, large horns with ear marks; one black yearling steer, dehorned, a little white in forehead; two 4-year-old spotted faced cows, dehorned; one white-faced red cow with horns; black cow with dash and heart, others branded with heart valued at \$60.

DUROC-JERSEY SWINE.

D. M. TROTT ABILENE, KAS., famous Duroc-Jerseys, Poland-Chinas.

COUNTY SEAT HERD DUROC-JERSEY SWINE, Geo. Briggs & Son, Clay Center, Neb. Young stock for sale.

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

DUROC-JERSEYS—Large-bodied and long-bodied kind. A fine lot of fall pigs (either sex) for sale. Prices reasonable. E. S. COWE, R. F. D. 2, Scranton, Kans.

MAPLE AVENUE HERD **J. U. HOWE,** Wichita, Kansas. Farm two miles west of city on Maple Avenue.

FAIRVIEW HERD DUROC-JERSEYS Now numbers 150; all head for our two sales, October 25, 1904, and January 31, 1905. **J. B. DAVIS, Fairview, Brown Co., Kans.**

THE OLD RELIABLE KLONDYKE HERD. For Sale—One April and four September males. Two June and eight Sept. gilts. Choice of 80 head. Prices right. Quality right. **Newton Bros., Whiting, Ia.**

GOLDEN RULE STOCK FARM LEON CARTER MGR., Asherville, Kans. Gilt-edged Duroc-Jersey Swine.

PEARL DUROC-JERSEY HERD. Write C. W. TAYLOR, Pearl, Dickinson Co., Kans., for prices on Duroc-Jersey hogs. He has them. Can ship on four roads, Rock Island, Union Pacific, Santa Fe and Missouri Pacific.

FOR SALE Twelve head of pedigreed Duroc-Jersey hogs, good color; weigh from 150 to 175 pounds; at farmers' prices, \$9 to \$12 each. **CHAS. DORR, Route 6, Osage City, Kans.**

The Famous Fancy Herd DUROC JERSEY SWINE A few gilts and 7 fine young boars for sale. Breed sow sale at Concordia, Feb. 21, 1905. **JNO. W. JONES & CO., R. F. D. 3, Delphos, Kan.**

Some Fine August and September Pigs—Duroc-Jerseys Either sex, as wanted. Price \$10 each. They are of good red color, good ear, back and feet; also some bred sows at low prices. All stock registered. Brood sows to farrow in March. Mr. & Mrs. Henry Shrader, Route 1, Wauneta, Kans.

DUROC-JERSEY BRED SOWS Fifteen choice bred sows and gilts and two young male pigs for sale. Write for prices, breeding, etc. **R. F. NORTON, - Clay Center, Kans.**

DUROC-JERSEY HOGS. All stock registered. Pigs for sale weighing 150 to 200 pounds, both sexes. Will have sows for early farrowing at \$20 each. Spring males and gilts, \$10 to \$15. Address **Mr. & Mrs. Henry Shrader, Wauneta, Kans.**

PLAINVILLE HERD DUROC-JERSEYS For sale, an extra fine lot of young boars large enough for service. Bronze turkeys, Barred Plymouth Rocks and Brown Leghorn chickens for sale. **J. M. YOUNG, Plainville, Kans.**

DUROC-JERSEYS A few Gold Dust gilts of the big-bodied, hardy variety, and out of large litters bred for April farrow. **BUCHANAN STOCK FARM, Sedalia, Mo.**

Wheatland Farm Herd Duroc-Jerseys For Sale—At reasonable prices, some fine October pigs, male and female; also some tried sows, bred and open. Our yearling herd boar, Wheatland Dandy 23905, sire Nathan 6397, dam Lincoln Lass 32792, will also be sold. **GEO. G. WILEY & SON, South Haven, Kans.**

Rockdale Herd Duroc-Jerseys All reserved for bred sow sale Feb. 20, 1905. 40 head of tried sows, fall yearlings and spring gilts, the tops of my herd. Remember the date. **Route 2, J. F. Chandler, Frankfort, Kansas.**

MINNEOLA HERD DUROC-JERSEY SWINE Prince 17799 and Red Rover 27665 at head of herd. Young boars and bred and open gilts for sale. **L. A. KEELER, Route 7, Phone 591 G, Ottawa, Kans.**

Rose Lawn Herd Duroc-Jerseys Now offering males only. Bred sows and gilts reserved for Feb. 23, 1905 sale. Visitors welcome and prices right. Can ship on Santa Fe, Mo. Pacific and Rock Island railroads. **L. L. Freeman, Hope, Dickinson Co., Kans.**

Walnut Oak Durocs FOR SALE.

Ten yearling sows, including our World's Fair premium sows sired by Surprise 10817, champion at Kansas City Royal 1902, and bred to a son of Bell's Chief and Bishop's Choice. Fifteen June boars, including our World's Fair fifth prize boar under 1 year. All the very best of the breed. Our motto is to please all. **Powell & Rudy, Smithton, Mo.**

POLAND-CHINA SWINE.

FOR SALE Poland-China Hogs, Holstein-Friesian Cattle, either sex. Best strains represented. **H. N. HOLDEMAN, Rural Route No. 2, Girard, Kansas.**

SHADY NOOK HERD. Poland-Chinas. Up-to-date breeding. Correspondence solicited, inspection invited. **Wm. Plummer, Barclay, Kans.**

Pure Bred Poland-Chinas. of the Chief Tecumseh 2d, Black U. S., Wilkes, Free Trade, Corwin and Short Stop strains. Address **E. E. WAIT, Altoona, Wilson County, Kans.**

MAPLE VALLEY STOCK FARM Pure-bred Poland-Chinas from leading strains. Visitors welcome and correspondence solicited. Satisfaction guaranteed. **C. P. Brown, R. 2, Whiting, Ka**

POLAND-CHINA SWINE.

POLAND-CHINAS

For Sale—June gilts, sired by Corwin's Model. This stock is first-class. Weight from 150 to 200 pounds. Prices quoted on application. **Dave Stratton, Route 1, Walton, Kans.**

Pecan Herd of Poland-Chinas Model Tecumseh 64138, American Royal (S) 30783, and Best Perfection 81507 at head of herd. Write us your wants. **J. N. Woods & Son, Route 1, Ottawa, Kans.**

Elm Grove Stock Farm Poland-Chinas. Woodbury 33838, Highroller 33839 and Perfection's Profit 33233 at head. Sows of the most popular strains. Visitors always welcome. **F. A. DAWLEY, Waldo, Kans.**

DIRGO BREEDING FARM

J. R. Roberts, Proprietor, Deer Creek, Okla. Breeder of Poland-Chinas of the leading strains. Stock of all kinds for sale at all times. Satisfaction guaranteed. Write us and we will tell you what we have.

Kansas Herd of Poland-Chinas. Has fifteen Sunshine gilts bred to a son of Mischief Maker, and some sows carrying their second litter and some good boars. Also White Rose Comb Leghorn eggs. **F. P. MAQUIRE, Hutchinson, Kansas.**

Main's Herd of Poland-Chinas

Empire Chief 30379, heading champion herd and winner in class at Iowa and Nebraska State Fairs. He is of great size and finish. Sire Chief Tecumseh 3d and out of Columbia 2d. The combination that produced so many State fair champions. A grand lot of sows bred to him; and summer boars for sale at reduced rates. Try me for quality and prices.

JAMES MAINS, Oskaloosa, Jefferson Co., Kan.

ROME PARK POLAND-CHINAS and BERKSHIRES.

I have about twenty boars ready for use and twenty-five sows bred, and some unbred, and a large number of good pigs, both breeds.

T. A. HUBBARD, (County Treasurer Office), Wellington, Kans.

HIGHLAND FARM HERD OF PEDIGREED POLAND-CHINAS

Twenty serviceable boars at special prices for next 30 days, sired by Black Perfection 37122, Silk Perfection 32904, Perfection New 32580, and Ideal Perfection. They are lengthy and good-bodied pigs, with plenty of finish. Write me description of what you want and I will guarantee satisfaction.

JOHN BOLLIN, Route 5, Leavenworth, Kas

GUS AARON'S POLAND-CHINAS Route 5, Leavenworth, Kans.

Choice young boars of April and May farrow sired by Beauty's Extension, for sale. Also bred sows and gilts, all with good colors, bone, fancy head and ears. The head boar, Beauty's Extension 27666, for sale. Some snaps here. Visitors welcome. Mention Kansas Farmer and write for prices.

Big-Boned, Lengthy Poland-Chinas

I have for sale two herd boars, one sired by the great Missouri's Black Perfection, the other by Perfection Chief; they are extra good. Also 25 large, big-boned, growthy spring boars and about the same number of gilts. My specialty is to breed the kind that is the most profitable.

E. E. WAIT, Altoona, Wilson Co., Kans.

CLEAR-CREEK HERD OF POLAND-CHINAS

For Sale, at bargain prices, from now till January 1, 1905, four boars ready for service, sired by Sherman's Corrector, a half brother to Corrector 2d, the reserve champion at the St. Louis Expo 1904, and out of up-to-date bred sows. Also a bunch of boars equally as well bred, sired by six good herd boars, and out of matured sows.

E. P. SHERMAN, Wilder, - - Kansas

CHESTER WHITE SWINE.



D. L. BUTTON, Elmont, Shawnee Co., Kan. Breeder of Improved Chester-White swine. Young stock for sale.

High Point Stock Farm

I have choice O. I. C. and Duroc-Jersey males. Also bred O. I. C. and Duroc-Jersey gilts for sale. B. P. Rock cockerels and eggs in season. Write or come and see

J. R. EBERT, Route 3, Hunnewell, Kans.

Wyandotte County Herd O. I. C. SWINE

Breeders of the prize-winners and champions at the American Royal, and of many winners at St. Louis. We now have a number of choice bred and open gilts, all growthy with plenty of bone and weight and in perfect condition. Very attractive prices on these choice animals.

ALVEY BROS., Argentine, Kans.

CHESTER WHITE SWINE.

World's Fair

CHESTER - WHITE HOGS Shorthorn cattle, Oxford sheep and Peafowls. I won 13 prizes on 14 head of Chester-Whites at World's Fair, 1904.

W. W. WALTHIRE, Peculiar, Missouri.

O. I. C. SWINE

Choice boars and gilts of August farrow for sale cheap; also a few extra good bred gilts. Write for prices. Satisfaction guaranteed.

S. W. ARTZ, - LARNED, KANSAS

O. I. C. HOGS



A. G. McQUIDDY,

501 East South Fourth Street, Newton, Kans. Handles the great George Washington breed from the famous Silver Herd of Cleveland, Ohio. For particulars and prices write to the above address.

Peach Grove Herd

OF PURE-BRED

O. I. C. SWINE

Choice stock for sale. Prices reasonable. Come and see them or write to

H. T. GARTH, Larned, Ks

THE CRESCENT HERD

O. I. C. The World's Best Swine.



200 pedigreed hogs, both sexes, all ages. Pairs or trios mated not akin. Bred for size and finish. Nothing but the best offered. We are now booking orders for bred sows. Describe build of hog wanted. Thoroughbred Poultry—W. and B. P. Rocks, W. and G. Wyandottes, and B. Langshans. Stock for sale. Correspondence solicited and satisfaction guaranteed.

John W. Reat & Co., Central City, Neb.

O. I. C. HOGS.

300 Beauties, all ages.

We take the lead, others follow. We were the first western breeders to take up the O. I. C.'s, consequently we have advanced our herd to a place above all others. We have spared neither time nor money in perfecting this this breed. Write your wants and we will be pleased to give you information.

Scotch Collie Dogs. No Pups for Sale.

Brandane Noble, Cragmore Wonder, Laddie McGregor, at stud. Write for terms. We assure you we can please you. We are selling more Collies than any firm in America. We guarantee satisfaction.

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

BERKSHIRE SWINE.

CEDAR LAWN BERKSHIRES

My sows are sired by Elma's Prince 64775, and Berryton Duke 72946. Boar at head of herd, Jurist's Topper 76277. **Wm. McADAM, Netawaka, Kan**

Ridgeview Berkshires

Are all O. K. in breeding and quality. One yearling boar and four boars, April farrow, for sale, besides fall pigs.

MANWARING BROS.,

Route 1, Lawrence, Kans.

WHITE HOUSE HERD BERKSHIRES.

GEO. W. EVINS, Prop. MERRIAM, KANS. W. S. ROME, Manager Rural Route. For Sale or Trade—Fine Herd Boar, Enterprise Victor II, 75302. Good chance to get tested and proved herd boar cheap.

SUTTON'S BERKSHIRES Imported Blood

30 extra choice Boars, 100 to 150 pounds. 40 extra choice Gilts, 100 to 150 pounds.

Fancy heads, strong bone and all-around good ones. Bargains at \$15 to \$25 to close quick.

CHAS. E. SUTTON, Russell, Kans.

BERKSHIRES

I have purchased the great S. B. Wright herd, of California—are of the best in America, and the best sows and boars I could find in Canada, and have some fine young boars by several different herd boars. Can furnish fresh blood of high quality.

Eight pure Collie pups, cheap.

E. D. KING, Burlington, Kans.

KNOLLWOOD

BERKSHIRES

Pacific Duke 56691, the 1,000 pound champion show and breeding boar from herd of S. B. Wright, Santa Rosa, Cal., bred by N. H. Gentry; Model Princess 60134, by Halle 60125, sweepstakes Pan-American sow; Stumpy Lady 63409 by Combination 56028, sweepstakes Kansas City and Chicago 1902. Lee's Model Princess 62514, the \$180 daughter of Governor Lee 47971; Lady Lee 99th 65035, the \$160 daughter of Lord Premier 60001, and other "Blue-Bloods." Sows bred to 3 grand boars and young stock for sale.

E. W. MELVILLE, Eudora, Kans

BERKSHIRE SWINE.

BERKSHIRES

From the best breeding that can be had, for sale at all times. Male and female, bred and open. Prices and breeding that will suit you.

J. P. SANDS & SONS, Walton, Kans.

TAMWORTH SWINE.

TAMWORTHS

Ready for sale, consisting of 50 fall and spring gilts, that can be bred to any one of the three different herd boars, Mark Hanna, Red Stack Jolly, and a fine herd boar from Illinois. Also 40 young boars for sale for spring farrow.

C. W. FREELOVE, Clyde, Kansas.

SHORTHORN CATTLE.

Plainville Shorthorn Herd

I have agreed to consign my herd bull, "Strawberry Baron 149488," to the Breeders sale at Plainville, February 23, 1905.

N. F. Shaw, Plainville, Rooks Co., Kans.

ROCKY HILL HERD

SHORTHORN CATTLE.

J. F. True & Son, Perry, Kans.

D. P. NORTON'S SHORTHORNS.

Dunlap, Morris County, Kansas. Breeder of Pure-bred Shorthorn Cattle. Herd bull, Imported British Lion 138992. Bull and heifer calves at \$50.

Meadow Brook Shorthorns

Ten fine young bulls for sale—all red. Red Laird, by Laird of Linwood, at head of herd.

F. C. KINGSLEY,

Dover, Shawnee County, Kansas.

PEARL SHORTHORN HERD.

Thirty young bulls to select from. Get prices and description. Sired by Baron Ury 2d 124970, Sunflower's Boy 127387 and Bold Knight 179054.

C. W. TAYLOR, Pearl, Dickinson Co., Kans

MAPLE GROVE SHORTHORN HERD

BANKER No. 139324. CRICKSHANK HERD BULL. Sissy 849 of Vol. 40, Rose of Sharon blood, Norwood Barrington Duchess 654 Vol. 50, Bates blood. Pure-bred unregistered bulls for sale.

OSCAR DUEHN, Clements, Kans.

PLEASANT HILL STOCK FARM

Registered Hereford cattle. Major Beau Real 71621 at head of herd. Choice young bulls, also heifers by Lord Evergreen 95651 in calf to Orto 132856 for sale. Bronze turkey and Barred Plymouth Rock eggs for sale.

JOSEPH CONDELL, Eldorado, Kansas.

Shorthorn Cattle.

For immediate sale, 12 bulls ready for service and 12 bull calves. Also 20 cows and heifers, 1 to 7 years old. Give me a call, or address

H. R. LITTLE, - - HOPE, KANS.

Silver Creek Shorthorns

The imported Mistle bull, Aylesbury Duke 159763 and the Cruickshank bull, Lord Thistle 129960, in service. A few bred yearling heifers by Imp. Aylesbury Duke are now offered for sale. These heifers are in calf to my Cruickshank bull, Lord Thistle.

J. F. STODDER, BURDEN, COWLEY COUNTY, KANS.

GLENWOOD HERDS

Shorthorn Cattle and Poland-China Swine

Victor of Wildwood 126054, a thick-fleshed Orange Blossom and Prince Payonia 216307, an extra thick-fleshed roan by Prince Lovely in service. Choice bulls, 12 to 20 months, at reduced prices. Also a few yearling and two-year-old heifers.

C. S. NEVIUS, Chiles, Miami Co., Kans.

Forty Miles South of Kansas City.

ALYSDALE HERD SHORTHORNS

Headed by the great Cruickshank bull Prince Consort 187008, sired by Imported Prince of Perth 153879, and out of own sister of Lavender Viscount 124755. For Sale—Registered young bulls, at very reasonable prices; ready for service; sired by Lord Mayor 112727, and Golden Day 187219, from fine Scotch-topped dams

C. W. MERRIAM, Columbian Bldg., - Topeka, Kans.

Valley Grove Shorthorn

A car lot of young bulls sired by Lord Mayor Golden Day and two by Knight's Valentine. For sale at reduced prices. Come and see them or write to

T. P. BABST & SONS, Auburn, Kans Telegraph Station Valencia, Kans.

SHORTHORN CATTLE.

Harmony's Knight 218509

By the \$1,000 Knight's Valentine 187770 a pure Scotch bull of the Bloom tribe, now heads my herd. Seven extra good 1 and 2-year-old bulls, sired by an American Royal winner, for sale; also carload of cows and heifers in good flesh and at reasonable prices. Come and see them.

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Giltspur's Knight 171591 at head of herd. Young bulls ready for service for sale.

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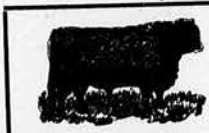
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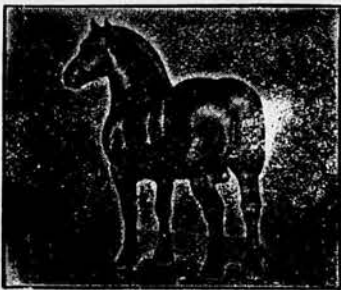
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We have brought to this country nearly every first, second, third and fourth prize winner in every Percheron stallion class in every Government show held in France since the Paris Exposition 1900.

Our horses won every first and nearly every prize down to fifth at the St. Louis World's Fair.

On account of bringing the best our trade is increasing so that we bring the largest number. We made five importations in 1904, bringing more Percherons and French Coaches than have been imported by all others combined.

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Cheer up! Iams' roses are blooming. These are his "sweepstakes" stallions (over all). The kind he sells at \$1000-\$1400 (a few higher). Iams' barns are "full to the roof" with "topnotchers" and Iams has on his "selling clothes" every day (always @ home).

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2 to 6 years old, wt. 1700 to 2600 lbs. 90 per cent blacks, 50 per cent ton horses. All registered, approved stamped stallions that you can make \$1000 service fees in one yr. \$1000-\$1400 buys "sensational stallions" of Iams. Better than one your neighbors paid \$400 for. It's a "clinch" that Iams will save you \$1000 and sell you a "money-maker."

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Gee whiz, Teddy—Iams "makes good" every statement in add. or catalog—Guarantees stallions as good or better than pictures in catalog—or pays you \$100 for trouble to see stallions. Iams is a "born horseman" (one not made to order). The

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Is noted for "sensational" winners—Iams buys prize-winners in Europe. He owns every 1st, 2d and sweepstakes winner in all ages at 1904 State Fair, in Percherons, Belgians, Coachers. Iams has a "sensational" "tallion show" daily. He shipped 100 stallions by "special train" 1904—the "wide-as-a-wagon kind." Mr. Stallion Buyer: "Butt in." See Iams' stallions yourself. Take no "gold brick stallion salesman's word." Look out for "knockers." Iams has "the goods" you read about. (His establishments is worth going 2000 miles to see.) Iams makes competitors "holler." He is knocking "high prices" out of the "Kans tree" on 1st class stallions. Iams saws wood, "Butts is," sells more stallions each year. Georgie, dear, be good, buy a stallion of Iams; his \$1200 stallions are much better than one our neighbors paid those Ohio men \$4000 for. (Then I can wear diamonds). Iams speaks the languages, buys direct from breeders, pays no buyers, salesmen, or interpreters; has no 2 to 10 men as partners to divide profits with. His 23 years of successful business makes him a safe man to do business with. Iams guarantees to sell a better stallion @ \$1000-\$1400 than are sold to Stock Co.'s for \$2500 to \$5000 by "slick salesmen" or pay you \$100 for trouble, you the judge. Iams pays horses' freight, buyers' fare, gives 60 per cent breeding guarantee. Write for "eye-opener"—greatest catalog on earth. References: St. Paul State Bank, Citizens National Bank.

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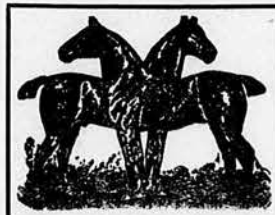
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TWENTY-FIRST ANNUAL SALE OF ELMWOOD SHORTHORNS

AT MANHATTAN, KANS., TUESDAY, MARCH 14, 1905.

37 EXTRA CHOICE SHORTHORN CATTLE 37

This offering includes 16 HIGH CLASS SHOW BULLS, 12 Herd Headers among them. All red except two dark roans. Ten are sired by Red Gauntlet, 8 by Orange Champion and 3 by King's Guard.

21 CHOICE YOUNG COWS AND HEIFERS.

Some with calf at foot; and all bred to Scotch bull. This sale will comprise the best offering as a whole ever made from Elmwood Herd. Catalogue sent on application.

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Reliable Shorthorns

In the best possible condition for usefulness. Absolutely healthy and GUARANTEED TO BE BREEDERS.

**Public Sale, Falls City, Neb.,
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The two herds making this offering have been built on foundations of reliable families that have never failed to produce good ones. Everybody knows John McCoy's kind of Shorthorns. Ellis Ludwig has the same kind. These two men have topped every bull sale in which they have consigned. This year's bull offering of 17 head is the strongest they have ever made and includes the

Fine Cruickshank Herd Bull

GLADYS CHIEF 152984, a 2,200-pound 5-year old, out of a sister to the champion, Lavender Viscount.

Nearly half of the 24 excellent females in the sale will be sired by this bull, bred to him or have calves at foot by him. For catalogue of these Scotch and Scotch topped Shorthorns, apply to

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BROOD SOW SALE

I will sell at the Henry Haub farm 11-2 miles northwest of Whiting, and 5 miles east of Netawaka, Kas.

Tuesday, March 14, 1905 Commencing at 12:30 p. m.

45--Registered Poland-China Brood Sows--45

These sows are in healthy, thrifty condition, are of high excellence, bred to high-class boars, such as Perfection I Know, Potent 36345 (sired by the \$1,480 Mascot), Star Corrector 36346, representing the best strains known to the breed.

Also ten young boars eligible to record just ready for service. Send for catalogue. Entertainment for parties from a distance. Conveyance will meet all trains.

Herbert Haub, Whiting, Kans.

Col. J. N. Harshberger } Auctioneers.
Col. P. E. Mofadden }

Poland-China Bred Sow Sale

at Belleville, Kans., Tuesday, March 21, 1905.

Consisting of 20 bred gilts, 5 choice tried sows, some will have pigs by sale day, also 5 grand, good boars of late summer and fall farrow. Sired by Belleville Chief 29123, Park's Tecumseh 32597. Two of the largest hogs in the State, Proud Lamplighter 32415 and others of equal breeding. The gilts are mostly bred to Blain's Duke 35132, bred by John Blain, Pawnee City, Neb. Sows in herd are of equal breeding.

Sale will be held in large new barn on farm, 3 1/4 miles northwest of town. Parties from a distance will be entertained at the Crystal Cafe. Send for catalogue.

F. C. Swiercinsky, Belleville, Kans.

Col. John Brennan, Auctioneer.
D. D. Bramwell, Clerk.

CLOSING-OUT SALE OF THE

Maple Grove Herd Duroc-Jersey Swine

At the Maple Grove Stock Farm,
Wichita, Kans., Tuesday, March 14, 1905

On account of having sold Maple Grove Stock Farm, and having to give early possession, we have decided to make a closing out sale of our entire herd of about

150 DUROC-JERSEY HOGS 150

Comprising bred sows and gilts, and a large number of fall pigs of both sexes. Also the young herd boar. A number of the gilts are bred to Royal Topnotcher 28075-123329. There are also a number of famous brood sows, and in fact the whole offering is a very attractive one for breeders who can secure foundation stock at their own prices. For further particulars, address by letter or telephone,

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On February 21st and March 21st, the M. K. & T. Ry. will sell excursion tickets from St. Louis, Hannibal and Kansas City to Indian Territory, Oklahoma and Central and Eastern Texas at

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One way second class **COLONIST** tickets will be sold on the same dates at one-half the standard one-way rate, plus \$2.00.

You should take advantage of this opportunity to see the Southwest for yourself. We are in possession of all sorts of information valuable alike to the investor and homeseeker. If you are interested, tell us what you want, how much you have to invest, and we will gladly furnish the information.

Write today for a copy of our book "Business Chance." It's free. Address,

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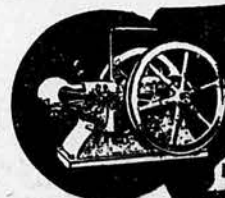
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You can go to California any day between March 1st and May 15th for \$25.00, a little more than half fare one way.

Travel comfortably in tourist Pullman or chair car.

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Saves more hard work and sore feet than any single piece of farm machinery. A ten year old boy with a New Model Cart can do a man's work, only more of it and better, as the cart holds the harrow steady. It's easier for a team to pull the cart than with the driver hanging on the lines. Fits any harrow, any make, any number of sections. Runs easy, turns on castors, don't interfere with levers.

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I will say that I like the drag cart very much and would not do without it for five times what it cost. My boy does all my harrowing, and he thinks it very easy work. He puts on four horses and makes them spin across the field and whistles and sings all the time. Yours truly, H. BILLMEYER.

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Self Binder, Manure Spreader, Wagon Hay Loader.

WHAT \$9.00 WILL DO. BUY A
NEW MODEL HARROW CART.

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Remember your money back if not satisfied. Write quick. Thousands of farmers will ride the New Model this spring. Join them.

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