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KANSAS FARMER.

Established in 1863.

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There is a general understanding that an extra session of Congress will be convened October 1, to take up the subject of regulation of railroad rates. May the President's plan succeed!

The Shawnee County Horticultural Society will meet April 6 at the State House. "Spraying" will be considered by A. E. Dickinson; a paper will be read by Miss Alice Buckman; and Dr. G. P. Lux will read a paper on "Hardy Perennials."

A great rain fell over a large portion of Kansas on Monday and Monday

night, March 27. The season has been very favorable, especially for wheat. Alfalfa does well under almost all conditions of climate. The fine weather has been favorable for farm work.

REGULATION OR ELIMINATION.

The editor has received from "The Civic Association of New York"—whatever that is—a letter and some clippings evidently intended to show that all this fuss about the Standard Oil Company is foolishness, and that "Until this truth [certain truisms about transportation] can be beaten into the heads of the public, the various nostrums which are presented to Congress will continue to embarrass the country [i. e., people doing business in a small area in a certain part of New York City] and to arouse expectations that will surely be disappointed."

One of the mottoes printed at the top of the letter-head reads: "Public ownership waste exceeds corporate profit." This is a proposition on which a good many people will wait for proof before accepting it. While the KANSAS FARMER has, on ethical grounds, doubted the expediency of greatly extending public ownership, it is not to be denied that experience with public ownership presents tangible evidence of its practical utility, in many cases as a money-saver to the people.

The larger of the three clippings enclosed claims to be a review of Ida M. Tarbell's history of the Standard Oil Company. It is really an adverse criticism of Miss Tarbell's work. The surprising feature of this "review" is the admission that the Standard Oil Company did obtain special rates and were granted rebates by the railroads, that thereby "A vast mine of wealth was suddenly disclosed, great fortunes were to be made, and it was a question who should make them."

Speaking of the railroads the review says: "They," the railroads, "apparently lied to one another and to their customers. They broke their agreements and granted all sorts of rebates in order to get business and to keep it from being diverted from them. Deplorable as it was, the managers of the Standard Oil Company were compelled to fight the devil with fire. If they had not obtained special rates, they would have seen their business pass into the hands of rivals who were less scrupulous. . . . Had the men who made the Standard Oil Company never existed, other men would have done what they did, with perhaps equal gain to themselves and perhaps less gain to the consumers."

The people of the West will accept these quoted statements as historically correct. But they depict a deplorable condition of the past, which condition is believed to be continued into the present. Just now the facts are receiving pretty general recognition and the people are inquiring what is to be done about it. Two plans are proposed. The more conservative of these is regulation by law; the enforcement of a square deal, by railroads. Mr. F. W. Meunch, Gypsum, will every patron. The other and more rad-

ical plan favors State ownership of the industries which have been made instruments of injustice. "The Civic Association" manifests as great antipathy towards the one as towards the other plan.

That the people, aroused to a realization of the injustices practiced, will apply an effective remedy need not be questioned by the exploiters. That regulation involves changes less radical than those incident to State ownership is manifest. By bunching the two together and fighting both, the apologists for the Standard Oil Company and other extortioners assume that the methods are equally destructive of the program mapped out for gathering the transportation and other great industries under one ownership so strong as to be irresistible.

Possibly the advocates of the two plans may be driven to make common cause and adopt exceedingly radical measures. The hope is that regulation and restraint may be made so effective that radical elimination of the corporations which are confessed to have been rapacious in the past may become unnecessary.

SHORTAGE OF SENATORS.

It has become fashionable within a comparatively few years for some of the States of this great and glorious Union to get along with only one Senator in the Congress of the United States. In most cases other causes than the modesty of the people and especially of the politicians of the one-Senator State are responsible for the deficiency of representation. The Constitution of the United States provides that each State shall be entitled to two Senators. More than two men in every State are willing to go to the Senate. Indeed, it is the anxiety of more than two that usually causes the trouble. The contest for the election becomes so bitter that a deadlock in the Legislature results.

This came very near being the case in Missouri at the session just closed. The Legislature elected last fall was Republican by a small majority. Missouri has been Democratic, almost without interruption, heretofore. Senator Cockrell has done honor to his State and has given excellent service to the Nation for almost a generation. The Democrats in the Missouri Legislature voted solidly for Cockrell. The Republicans could not concentrate quite all of their votes on their caucus nominee. The ensuing deadlock continued until the last hour of the session, when Hon. William Warner, of Kansas City, a Republican who stands well with all factions of his party, and also commands the respect of the Democrats to a degree almost equal to the respect accorded to Senator Cockrell, was elected.

It is a somewhat remarkable fact that before Major Warner had received a large vote in the Missouri Legislature, the Legislature of Kansas passed a resolution recommending his election by the Missourians.

Major Warner does not exactly become a Senator from two States, but his home city lies on both sides of the line, and his interest in Kansas is very cordial.

There is a practical vacancy in one

of the Kansas Senatorships, the senior Senator from this State being under the cloud of a conviction on a charge of having used his influence as a Senator to protect fraudulent concerns from exclusion from the mails. He is, therefore, Senator only in name and in drawing the pay, and is not permitted to sit in the body to which he was elected and is without influence in the Departments.

Kansas may well hope that Senator Warner will lend friendly cooperation to Senator Long at least until such time as Kansas shall again have full representation of her own in the highest legislative body in the world.

Just now, there is great need for full representation of honest commonwealths by honest men in the United States Senate.

THE POTATO.

In a book of 185 pages, of which the above is the title, Prof. Samuel Fraser, assistant agronomist, Cornell University, takes the reader through the various stages of potato-growing, from the selection of the seed to the marketing or storing of the harvest. The sixteen chapters treat elaborately the conditions influencing the growth and development, soils, fertilizers, management of seed previous to planting, management of growing crops, diseases, sprays, harvesting and marketing or storing, chemical composition, etc., of the "noble tuber." Each chapter has several illustrations, showing insect enemies, modern methods of planting, cultivating, digging, and machinery used for the various processes. Following is an excerpt from the chapter on Breeding and Selection:

"A. Girard, one of the foremost potato-growers of France, selects his potatoes every year from those hills whose foliage is especially luxuriant. He uses the Richter's Imperator, and prepares the soil to a depth of 12 to 16 inches, giving a liberal application of barnyard manure and fertilizers, acid phosphate, sulfate of potash, and nitrate of soda. He selects for planting, tubers weighing from 3½ ounces. When he can get a tuber of 7 ounces in weight he cut in two, and tubers of 10½ ounces into three pieces—always cutting in the direction of the length. He insists on the rejection of all potatoes weighing more than 11 ounces. If the potatoes available for planting weigh less than 3½ ounces, he places in each hill several small tubers, enough to bring the total weight to about 4 ounces. He lays great stress on the distance between the plants; the rows are 4 feet apart and the tubers are planted 19 inches in the rows, these distances being determined to be best by careful experiment. He advises early planting, as soon as the danger from frost is past. The crop should be well worked and all potatoes kept covered, and the tops well sprayed with Bordeaux mixture, and the crop not dug until all the tops have withered. Farmers in the cooperative experiments under his direction report yields of 400 to 700 bushels per acre as common, and even up to 1,353 bushels per acre with a starch content of 20 to 25 per cent. One

(Continued on page 348.)

Agriculture

Planting Corn With a Creck-Rower in Lister Furrows.

I have a field in which I desire to plant corn. It is pretty foul, and for this reason I am thinking of listing the furrows open and planting corn in these furrows with a check-rower, so as to be able to cross-cultivate. Will you please give your experience in this manner of planting? Is it practicable? I would be glad to hear from any farmer who has had experience of this kind.

Also advise concerning the depth the lister should be run at this time of year. Should I run the subsoiler, and how deep? The soil is badly washed off of part of this field, while the other part has a good thick soil. I will cross these different conditions each time through the field, so there will not be any chance to change the lister for these different conditions.

I would like to know also if it would be of any advantage to disk oat-ground before the seed is put in? I will sow the oats on ground where corn was raised last year.

wet, it would not seem advisable to use the subsoiler. If the soil is in good cultivating condition the subsoiler may be used, and it is safer and perhaps more beneficial to use it in planting early than in planting late. If the season should turn dry, injury may result from using the subsoiler. If it is sufficiently moist or if it is a little too wet, the subsoiler will prove an advantage, and deep subsoiling, if a wet period succeeds planting might give excellent results. As a rule, it may be advisable to use the subsoiler, but I would not advise to subsoil deep, not more than an inch or two below the point at which the kernel is dropped. The ideal seed-bed should not be loose for any considerable depth below the seed, since this prevents the capillary water in the lower soil from reaching the seed, and if the weather continues dry the seed may not get enough moisture to germinate properly. The deeper the subsoiling the greater may be the injury if the weather conditions are unfavorable.

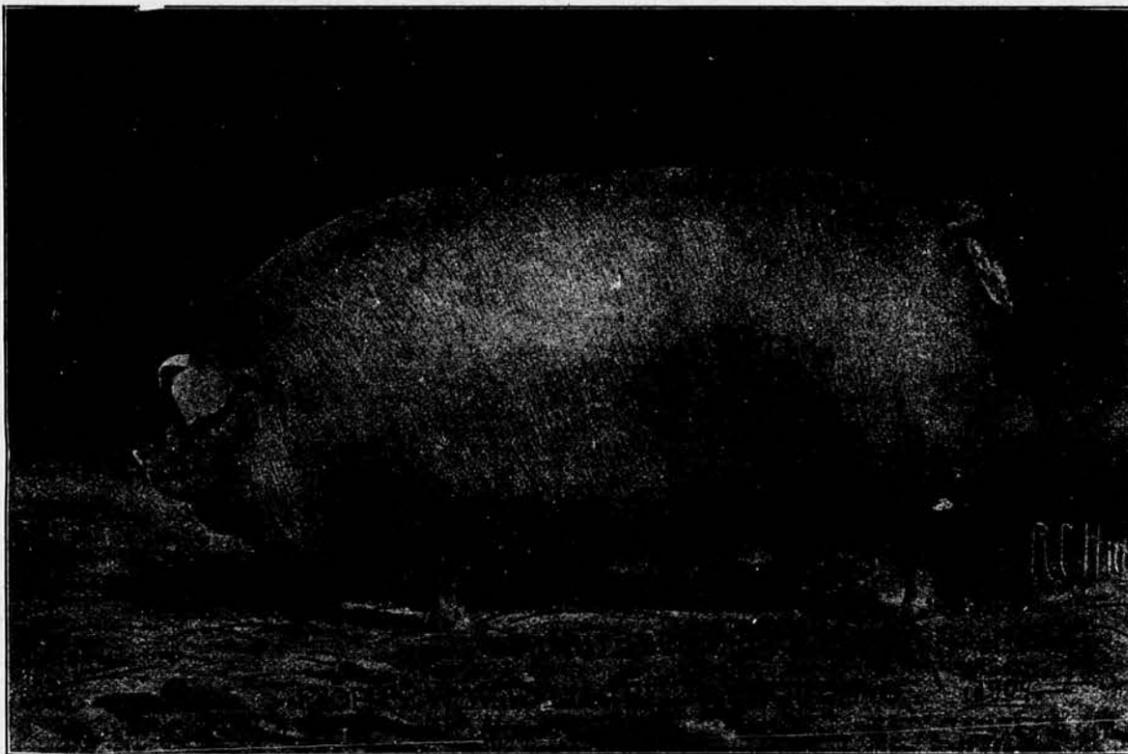
I would certainly advise to disk the corn land previous to sowing the oats. Our method is usually to double-disk and follow with the harrow about twice before seeding. I would prefer, as a rule, to prepare the seed-bed by

In shelling seed-corn should the butt and tip-ends of the ears be discarded, or should the entire ear be shelled and planted? J. H. RILEY.

Jackson County.

As a rule it is best to disk grass land and clover or alfalfa early in the spring, as soon as the frost is out and the land is in fit condition to work. This applies to grass pastures or meadows, perhaps more than to alfalfa or clover. I do not know that disking very early in the spring will injure alfalfa or clover, although there is the possibility that by uncovering the young shoots and bruising the crowns of the plants, some injury may result to the plants from freezing weather. We always plan to disk alfalfa before it starts to any extent and it will answer to disk it even after it has started a little.

I have never practiced disking clover, but do not see why disking should not prove beneficial to clover as well as to alfalfa. Probably, timothy will not be benefited by disking. This grass grows a bulbous root which lies near the surface, and any treatment which bruises or crushes this root is apt to weaken or destroy the plant. I believe the harrow would be a safer implement to use on a timothy meadow than the disk, and it may not be



ONE OF THE GOOD O. I. C. MATRONS IN THIS HERD.

I would like to disk a piece of pasture sod and sow to cane for hay. Is this advisable? The grass is about killed out, and next year I want to sow to English blue-grass and alfalfa, mixed. Would cow-peas do well sowed for hay on sod disked this spring, and how thick should they be sowed? Republic County. A. B. WHITTA.

I have had little experience in planting with a check-rower in lister furrows. This method is sometimes practiced, and so far as I know, with good success. We have planted small plots in this way at this station. On the foul land which you describe it might possibly be an advantage to check your corn in rows both ways, and the method of planting in the lister furrow will enable you to keep the weeds in check better than by the level method of planting.

As to whether the lister method of planting will produce a larger yield of corn than the level method will depend considerably upon the season. At this station during the past two seasons the level-planted corn has given from 8 to 10 bushels per acre larger yield than the listed corn. The seasons have been too wet for listed corn to do its best; in a dry season doubtless the results will be reversed. It is not difficult to keep corn clean which has been planted in the lister furrow, even when it is rowed only one way.

If the corn is planted early, probably the lister should not be run more than 3 or 4 inches deep. If the soil is

disking rather than to plow the corn land. If the surface is very weedy, however, it may be advisable to plow, and prepare a seed-bed by thorough harrowing, and the subsurface packer could be used to good advantage in preparing new plowing for oats.

It would appear to me better to plow the pasture rather than to disk the sod in preparing to sow cane. Even if the grass is nearly all killed out, the surface must be very hard and compact, and to subdue the land it will be best to break it and work the sod down well with the disk and harrow in preparing a seed-bed for cane. By this method you will get the land into better condition for seeding down to English blue-grass and alfalfa the succeeding year, than would be the case if you simply disk the cane in on the sod this season. Cow-peas would make a good crop to grow on this sod land, but I would advise to plow the sod and prepare the seed-bed as described above, sowing the cow-peas broadcast or in close drills at the rate of 1 to 1½ bushels of seed per acre. The earlier you can plow this land the better seed-bed you will be able to prepare, either for cane or cow-peas.

A. M. TENEYCK.

Grass Questions—Land-Plaster.

When is the best time in the spring to disk or harrow tame grasses, such as clover, timothy, etc?

I have decided to use land-plaster on a portion of my grass land. When should I apply it?

advisable for you to undertake the cultivation of your timothy except in a small way in order to test the effect.

The Bromus inermis, English blue-grass and native grasses will stand disking and harrowing without permanent injury, and the earlier the disk can be used, as soon as the ground is in fit condition to cultivate, the better the results. As soon as the ground gets settled and the grass starts, the disking will have less effect in breaking up and mellowing the soil than it will have early in the spring. I should advise to follow the disk with the harrow in all cases, and we have found that the best work is accomplished when the sod or alfalfa is disked twice, crossing the last time. Then if the harrow is used, the clods are broken and torn apart, leaving a level surface and a fairly good mulch of mellow soil. It will not be advisable to disk grass lands except old sod-bound fields, since it appears from our experiments that the effect of thorough disking is to decrease the yield of grass the first season after the disking.

Apply the land-plaster early in the spring, and previous to the cultivation, if you intend cultivating the land—as will be best—since by the cultivation the land-plaster will be incorporated with the soil and more evenly distributed than if it were simply sown broadcast without cultivation. The land-plaster will not, however, injure the grass if applied later, since it does not have the caustic effect which lime has, and hence it may be applied at

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any time, but preferably in the spring as I have stated.

We practice the method of discarding the tip- and butt-kernels of the ears in shelling our seed-corn. Germination tests made with kernels taken from the tips, middles, and butts of the ears at this station, and also at the Iowa Station, have shown that the middle kernels give the highest percentage of germination, and germinate more vigorously than butt- and tip-kernels. Such tests as have been made in the field in the planting of kernels from the different portions of the ear at the Ohio, Kentucky, and Georgia Experiment Stations, show little or no difference in the yield of crop produced from seed taken from the different portions of the ear. Perhaps the greatest objection to using the tip- and butt-kernels for seed is that they are not uniform in size with the middle kernels, and when planted with the ordinary planter do not produce an even stand of corn. Also the tip-kernels are usually not fully developed, and the butt-kernels are irregular in type; and to produce a uniform type or breed of corn it would seem advisable to plant uniform kernels.

Some insist that the butt- and tip-kernels should be planted in order to give complete fertilization and accomplish the development of perfect ears of corn. It is argued that the tip-kernels mature the earliest pollen, which falls on the silks and fertilizes the butt-kernels of the ears of the new crop; while the butt-kernels produce the stalks which mature the late pollen which fertilizes the tip-kernels of the new crop—thus producing the perfect ear. This, however, is largely theory, and I find no data to substantiate the statements. Corn-breeders invariably practice discarding the tip- and butt-kernels, and have been able to produce more perfect corn by this method, and by careful selection, and in several instances have been able to improve the type, quality, and productivity of corn.

I have mailed you a copy of a general letter answering questions regarding speltz. A. M. TENEYCK.

The Campbell System—Barley on Raw Soil.

I would like to ask a little information about the Campbell system of soil culture. In disking the wheat ground soon after harvest, should it be disked with the stubble on the ground, or should it be burned off first, to get best results? Will barley do well on sod broken this spring, and well pulverized? G. T. SHOPE.

Hodgeman County.

I believe that the usual method in practicing the Campbell system of culture is to disk the wheat land with the stubble on the ground. It does not become so necessary to burn off the stubble when wheat follows wheat. If the land is disked several times after harvest, the presence of the stubble assists in making a suitable soil mulch and conserves the water in the soil. The straw being partially covered with the earth, soon begins to decay and when such land is plowed a good union can be made with the subsoil below; whereas if a heavy coat of dry stubble be plowed under, the tendency is to cut off the water-connection with the subsoil and allow the surface to dry out, also the straw does not decay.

Perhaps barley will do as well on sod broken this spring and well pulverized as any other crop you can grow successfully in Hodgeman County. If you are in need of forage, the cultivation might be extended to a little later date and the land seeded with cane or Kafir-corn or Kafir-corn may be planted on such land and cultivated. I am inclined to recommend a cultivated crop rather than to sow a crop like barley which can be given no cultivation. A cultivated crop helps to subdue the sod better than a sowed crop. Also Kafir-corn and cane are strong feeders and will do as well on a raw soil as any other crop, provided you can get the seed-bed right for germinating the seed. A. M. TENEYCK.

Look out for the bright, for the brightest side of things, and keep thy face constantly turned to it.—Jeremy Bentham.

Horticulture

Peach Growing on a Large Scale.

In an interesting article in the World's Work J. H. Hale of Connecticut tells how he came to be an extensive peach-grower. Bereft of his father in early boyhood, he with his mother and the other children were kept busy trying to make a living. At the age of twelve while at work for a neighboring farmer, cutting corn-stalks on the hills of Connecticut, he came across a seedling peach-tree, loaded with ripe fruit. He says:

"Tired and exhausted from the heavy work of handling the corn-stalks, I sat a long time under that tree, eating peaches and dreaming of the peach-orchard I would have if ever I got money enough to buy the trees; and I believe that the joy in the thought put such life into me that the extra work I did that afternoon more than made up for the time lost under the peach tree.

"Continuing to work out by the month on the farms, the fall I was 15 found me with savings of nearly \$100 in cash. The winter following was my last school. I had been reading everything I could get on horticulture and by spring I was ready to invest my cash in fruit-trees and plants. As quick returns must be had, the start was made with strawberries and raspberries. Some cash came in the following June, and then the quarter-acre of my beginning was increased to an acre, and later to four or five acres."

Then he purchased fruit-trees and made a trip through Delaware studying varieties and methods and concluded that the hills of Connecticut were good locations for peach orchards. He managed to plant 10,000 trees. This is what he says of this critical time in the experiment:

"After five years of thorough culture the trees had just come to full fruiting age, when three very severe winters in succession killed all the fruits-buds. Deeply in debt as I was and faced with the necessity of borrowing more money to maintain the standard of culture I believed in, my friends and well-wishers now advised the abandonment of the enterprise, without sinking more money in what seemed to them a hopeless endeavor. Anyhow, they said, the trees would live awhile without culture, and it would be time enough to spend more money on them when they showed some signs of fruiting. But with my hand once to the peach-plow I did hate to turn back, and then, thinking how the Lord hates a 'quitter,' I began hustling to borrow more money. It was a hard struggle, but a record of reasonable industry, coupled with good habits, enabled me to find bankers who were willing to loan money on faith and energy when there was no better collateral in sight.

"A year or so later, when I had reason to expect the first paying crop of peaches, a church society, whose members were largely tobacco farmers, asked for further security above the first mortgage they held on all our property, or else the payment of the loan. These people could not feel that the church money was safe when an attempt was being made to grow so uncertain a crop as peaches on what might otherwise be good tobacco land. The church authorities, however, gave us three months to adjust matters to their satisfaction."

Mr. Hale picked off over three-fourths of the small peaches to insure larger and finer fruit.

"As the fruit approached ripening, plans for marketing that had been years maturing in my mind were licked into shape. It had cost so much money and waiting to reach this first crop that it seemed necessary to get all possible profit out of it. Determined to be my own salesman, I leased a vacant store in the nearby city of Hartford, and a month before peaches were ripe hung out a large banner announcing that a big lot of 'home-grown peaches, ripened on the tree,' would be on sale there on a certain date.

Then I visited the leading towns in Connecticut, Massachusetts and Rhode Island, seeking out in each town one retail grocer or fruit-dealer, who handled high-grade goods. To him I told my little story of soil and variety-selection, tillage, pruning, fertilizing and fruit-thinning. I told him how the fruit was to be gathered fully ripe, day by day, as it came to maturity carefully assorted in three sizes, rejecting all unsound or imperfect specimens, packing the selected fruit in new baskets—made of the whitest wood obtainable, every basket to be rounding full of perfect fruit of the same grade from top to bottom. I told them there would be a label on every package, giving the grade, and guaranteeing uniformity of packing; that I was jobbing the fruit myself; that prices would probably be 25 or 50 per cent above the market rates, but that the fruit would be worth it; and that I was prepared to give an exclusive agency to the one dealer in each town who would push the goods into the best family trade.

"Some took these statements one way and some another, but, to sum it all up, it amounted to about this: 'Young man, you tell a pretty good story; you look honest; and probably mean to do as you say, but we have never seen any peaches packed and handled that way, and we question whether it is possible for any farmer to do as you say.' A few gave me small orders, and others promised to visit the orchard and salesroom when peaches were ripe.

"When the crop began to come in, liberal advertising in the Hartford papers started sales at once. The few outside trial-orders gave such satisfaction that orders came pouring in faster than there were peaches to supply them, so that after the first week of the season, the daily orders were far in excess of the supply, and prices were advanced to 'what the traffic would bear.' It was all cash trade, too.

"With a girl to book orders and look after the cash, one boy and I worked in the store every night from 6 to 11, taking the fruit from the big wagons as they came from the farm, and making up the out-of-town orders. Up again at 4 a. m., we supplied the Hartford and local trade, after which came a drive of eight miles out to the farm, there to spend the day assisting at the harvest or toning up the weak places in the plan of picking, assorting and packing. I soon found that men, however honest, would occasionally sneak the best peaches to the top of the baskets and that woman, with quicker eye, deft fingers and natural honesty, made much better packers.

"Long days, hard work, and lots of fun there were in that first crop; but the greatest pleasure of it all was the signing of what then seemed a big check for \$2,100, that paid off the mortgage on the farm, and gave the church people a chance to re-lend the money on a Kansas farm 1,500 miles away, where they could not see the borrower daily if he should depart from the orthodox ways of the neighborhood to branch off in the heresy of a new agriculture. That peach harvest rounded up nearly \$10,000 profit, from a farm that my neighbors thought three months before was not good security for a loan of \$2,000. All other debts were paid, and the entire surplus was promptly invested in fertilizers for the orchard. Winter's frosts destroyed all hopes of a crop the next season, and money had to be borrowed to keep things going; but only for a little while, for 1889 gave a banner crop of superb fruit, which, marketed as before, gave net profits from thirty-five acres, of over \$24,000."

In 1890 while traveling over the fruit-producing country in Southwestern Georgia, he found, not far from the old Andersonville military prison, what he thought a good peach country. At a venture he bought a plantation of a thousand acres that was for sale, intending to sell all but 100 acres, but concluded that a large orchard could be handled much better and cheaper proportionately, than a small one. He found a friend who wanted to try the

Badly Cheated
The man who buys poor shaving soap. Give your face its due. Use
WILLIAMS' SHAVING SOAP
Sold everywhere. Free trial sample for 2-cent stamp. Write for "The Shavers Guide and How to Dress Correctly."
The J. B. Williams Co., Glastonbury, Conn.

SENT ON TRIAL
A Fence Machine that will make over 100 Styles of Fence and from 50 to 70 rods a day
AT ACTUAL COST OF WIRE
Horse-high, Bull-strong, Pig and Chicken-light. Wire at Wholesale Prices. Catalogue Free.
Kitselman Bros. Box 61; Muncie, Ind.

FIELD POST Made where used. No freight charges. Simple of construction. Excels in beauty, convenience and strength. Costs little more than oak or locust, will last for all time. Renders universal satisfaction. Reliable men wanted who can work territory. Descriptive matter free. Address with stamp.
ZEIGLER BROS., Hutchinson, Kans.

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

Well Drilling Machinery
Portable and drill any depth by steam or horse power. 49 Different Styles. We challenge competition. Send for Free Illustrated Catalogue.
KELLY & TANEYHILL CO. 33 Chestnut St., Waterloo, Ia.

THE LARGEST AND BEST LINE OF WELL DRILLING MACHINERY in America. We have been making it for over 20 years. Do not buy until you see our new Illustrated Catalogue No. 41. Send for it now. It is FREE.
Austin Manufacturing Co., Chicago

Prevent Tongue Dropping
by using Ziegler Automatic Lock Centers on your buggy or spring wagon yokes. Made of malleable iron, guaranteed. If your dealer does not have it send 75 cents for one prepaid.

The Ziegler Neckyoke Co.,
Department A, Coffeyville, Kansas.

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

WATERPROOF OILED CLOTHING
RECEIVED THE HIGHEST POSSIBLE AWARD AT THE ST. LOUIS WORLD'S FAIR.
Send us the names of dealers in your town who do not sell our goods, and we will send you a famous tower of the world. 1893
A. J. TOWER CO. ESTABLISHED 1836.
BOSTON. NEW YORK. CHICAGO. TOWER CANADIAN CO. LONDON. TORONTO CAN.

southern climate and had \$20,000 to invest. He says:

"I went ahead at once and contracted for 125,000 trees and a carload of farm machinery and supplies. Just at this time another peach crop on the Connecticut farm furnished the money to pay for the southern land, and things seemed to be coming my way, when the promised Western partner, unable to realize the expected cash, dropped out of the enterprise. Trees and machinery had been shipped and must be paid for, while to connect them with the farm and keep things going would take much money. I did not want such a vast orchard, but it was too late to turn back; therefore I explained the situation to my banker that it was 'money or bust.' He agreed to advance the \$15,000 necessary to start the enterprise, with a caution not to exceed the amount and call for more.

"Taking from the Connecticut farm a few laborers skilled in orchard work I reached Georgia in early November, 1891, only to find the plantation house burned. It took us three weeks to erect a barn, and with the mules on the ground floor we made our quarters in the loft, and a jolly winter was spent. A surveyor was employed to locate a central avenue through the place, and the whole was platted into blocks 500 by 100 feet.

"Trees are cultivated more easily if in proper alignment; so after the field was platted, I set the surveyor running lines for the rows of trees. He had not been working long when one of the old plantation darkies came, hat in hand, and said: 'Capn', I dun reckon it cost a right smart o' money to do it dat way. Lulu and I can do it a heap sight quicker, and I reckon about as well as dat ar man wid de machine.'

"On inquiry, I found Lulu was his old gray mule. I had my doubts, but at his earnest pleading consented that he should make a trial on a corner block, where it would not show much. Old Henry cut three long, straight poles from the woods; then some tufts of cotton were tied around the tops of the poles to make them white and more easily seen at a distance. The poles were just the length of the distance wanted between the rows, so a standard of measure was always at hand. Placing one pole perfectly upright on the corner of a block, where the first row was to stand, Lulu was headed for the further end of the field, keeping the poles always in sight midway between her long, upright ears, so that Henry had a 'sight' that made his aim true. I overlooked operations until the third row was finished and then rushed off to stop the surveyor and turn the whole job over to Lulu. The work was absolutely perfect, and now, with more than 250,000 trees in what I am often told is the best arranged orchard in America, I give credit to the darky and the mule for the orderly way in which the trees are planted.

"The trees to be planted were small, and when the rows were all lined out, instead of following the usual custom of digging a deep hole two or more feet in diameter, placing the trees in position and filling about the roots with earth, I sheared the roots so close that one thrust of a spade into the mellow cotton land made an opening large enough to receive them, and a little tramping set them firmly in place. I planted the first trees with my own hands, and this novel plan of not digging any holes made it the cheapest job of planting on record."

Nursery stock was grown and a large corn-crop was harvested so that the first year the farm had an income of \$9,000. A stock company with only two outsiders was organized, and packing-sheds were built and preparations made for the crop which came the fourth year. Helpers both white and black were hired and camped in their own covered wagons and in "quarters" erected for the purpose. This large fruit-orchard became a matter of interest far and near, and Mr. Hale tells how:

"Families from Florida, who owned small places, in the idle season of mid-

summer made the trip of 300 miles in covered wagons, camping along the way. And now, as the orchard has increased, there annually come to us from the truck- and fruit-farms of Florida from fifty to seventy-five people, who count as their only summer outing the two months spent in the Georgia peach harvest. A hotel or lodging house on the place now accommodates a little over 200, room and bed being free to those who are willing to conform to the simple rules of decency and good order. Meals are furnished at cost, which is about 12 cents, for an abundance of wholesome food in variety, and yet a majority of white people always prefer to bring their own cooks and provisions from home and rig up a little camp, while others form clubs, buy their provisions from the commissary on the place and hire some old aunty to cook for them at her cabin at 25 cents a week for each person, and 'de chillen take de leavin's.' Two negroes board 100 or more of their own race; others club and cook together about their campfires, while many buy from the commissary what they eat from meal to meal. Of the more than 700 people on the place in the fruit season, all must be fed on the spot and, as a majority of them arrive without funds, rations must be advanced until pay-day comes around.

"The first crop of Georgia peaches was marketed in 1895 so successfully that the orchard was promptly enlarged, until now more than 225,000 peach- and 40,000 plum-trees can be seen from the lookout on top of the central packing-shed and it is a drive of nearly thirty miles to cover all the avenues in the orchard. A railroad track runs directly to the packing-house. An evaporator capable of working up 600 bushels of peaches a day utilizes the fruit not fit for shipment. Nursery trees by the hundred thousand, corn to feed the darkies and mules on the place, and 150 to 200 acres of fancy cantaloupes are the annual production.

"From the Saturday before Christmas to the Monday after New Year's is holiday time, after which the year's work begins. The trees are pruned to make them low-headed, so that the fruit may be harvested without use of step-ladders, and the resulting broad, open top lets in sunlight and air, to add color and quality to the fruit. Then comes the spraying, for we do all that science and practice can suggest to check the ravages of insects and fungous pests, to the end that every specimen of fruit may be the best and most beautiful of its kind.

"Gang plows, revolving harrows and other implements of orchard culture, in connection with the best obtainable fertilizers, keep the more than 2,000 acres of orchard land soft, clean and mellow until the approach of the harvest season, when it is all seeded with invaluable cow-peas, which shade the ground through the heat of late summer and early fall, while at the same time gathering the free nitrogen of the air to enrich the soil for future crops.

"As soon as danger of spring frosts is over and the fruit is well set, so that a crop is assured, material for crates and baskets is brought in by carloads in 'shooks,' and we begin to take on extra help, who are put at work making crates, pasting labels on both baskets and crates, and storing them away ready for the quickest use in harvest season.

"Thinning out the little green peaches, which helped to the first great success in Connecticut, is carefully practiced in the Georgia orchards. Three hundred large, perfect peaches from one tree will weigh more pounds, fill more crates and sell for more money than would a thousand or fifteen hundred peaches from the same tree over-crowded, and the quality is far superior. After the thinning season, crate-making is continued, wagons are fixed, barracks and camps put in order and everything braced up for the coming rush. A trip is made all through the consuming territory at the north; commissionmen and leading retailers are told fully and freely of crop prospects, visits are made to general

SALZER'S SEEDS *Never Fail*

600,000 planters scattered the world over are willing to say under oath that Salzer's Earliest Vegetables are from six to twenty days earlier than the earliest of their kind produced from other seedsmen's seeds. Why? Because for more than one-third of a century Salzer's Seeds have been bred up to earliness.

For 35c

1 big pkg. Salzer's Scorerer Pea	10c
1 " " Early Bird Radish	10c
1 " " Salzer's Earliest Lettuce	10c
1 " " Earliest Cucumber	10c
1 " " Earliest Beans	10c
1 " " 4th of July Sweet Corn	10c
1 " " Six Weeks Verbena	15c
Total	75c

Above seven packages of earliest vegetable and flower novelties positively have no equal on earth for earliness. If you wish the earliest, finest vegetables for your home garden or for the market, Salzer's seeds will produce them every time. We mail you above seven big packages, together with our great plant and seed catalogue for 85c Stamps.

FOR 10c. POSTPAID

We mail to you our big catalogue with sufficient seed of cabbage, celery, lettuce, onions, radishes and turnips to grow 9000 luscious vegetables and a package containing 1000 kernels of beautiful flower seeds besides!

JOHN A. SALZER SEED CO., La Crosse, Wis.

BUY GRAND PRIZE ALFALFA SEED

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.

MOBETH & KINNISON, Garden City, Kansas

SEED CORN

Grown in Vermont County, Iowa, the best Seed Corn County in the State. We do not give a lot of free things you do not need, but your money's worth in seed corn, or other seeds you may need. We ship corn in ear when you want it so. Write today for a catalog and samples of our different kinds of seeds, if you want the best. Write to, **ROSS & FERRELL, Farragut, Iowa.**

J. G. PEPPARD **ALFALFA SEEDS**

1101-17 W 5th St. **MILLET, CANE SEED**
KANSAS CITY, MO. **OLEVER**
GRASS SEED **TIMOTHY**

SEED CORN

The kind that will please you. Yields bushels where other sorts yield only pecks. It is the kind that pays to plant. Change your seed corn and add 20 to 40 bushels to the yield of your crop. Our *Pride of Nishna* (yellow) *Iowa Silver Mine* and *Imperial* (white) will do it. Write for our big catalog telling about all farm, field and garden seeds, and giving new ideas and new methods on corn growing. It is worth dollars to every farmer. It is free. Write for it. A postal will bring it. **Rafekin's Seed House, Box 11, Shenandoah, Ia.** The largest seed corn growers in the world.

IOWA GROWN SEED CORN

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. **W. W. VanSant & Sons, Box 14, Farragut, Iowa**

RELIABLE STANDARD SEEDS

FARM GARDEN FLOWER SEEDS

Illustrated Catalogue Mailed Free.

THE MANGELSDORF BROS. CO.
Atchison, - Kansas.

TOPEKA SEED HOUSE

ESTABLISHED 1876

Wholesale and Retail Dealers in Garden, Field and Flower Seeds, Seed-Corn, Kafir-Corn, Cane Seed and Millet.

All kinds of winter and summer blooming plants and bulbs. Hardy flowering shrubs and climbing vines, hardy ever-blooming Roses a specialty. Choice Fruit Trees, Small Fruits and Grape Vines, Palms and Ferns. Gold Fish and Aquarium Supplies. Poultry Supplies, Oyster-shell, Grits, Bone, and all kinds of Poultry Cures. Send for our catalogues and give us a trial order. Call on or address

S. H. DOWNS, Mgr., 306 Kansas Ave., Topeka, Kans.

Western Seeds for Western Planters

Largest, Most Complete Stock of Garden, Field and Flower Seeds in U. S.

NEW CROPS—TESTED SEEDS

Elegant Catalogue for 1905 FREE to any address.

A FEW OF OUR SPECIALTIES

Alfalfa, Brome Grass, English Blue-Grass, Kafir-Corns, Millets, Sorghums, Russian Speltz (or Emmer), Dwarf Essex Rape, the new Drouth-Resisting Macaroni Wheat and the new Oklahoma Dwarf Broom-Corn. Finest variety yet introduced. Biggest yielder. A money-maker. Send for special circular on same. **SEED WHEATS.** Full line Planet Jr. Tools. Address

KANSAS SEED HOUSE, F. Barteldes & Co., Lawrence, Kans.
OKLAHOMA SEED HOUSE, Barteldes & Co., Oklahoma City, Okla.
COLORADO SEED HOUSE, Barteldes & Co., Denver, Colo.

freight-agents and officers of the leading railroads, and a personal interest awakened that is beneficial to all concerned.

"As soon as the peaches begin to ripen the most experienced pickers are placed in charge of gangs of ten to fifteen, which are later increased to forty or fifty. Every picker has his number stenciled on a little canvas sack, in which are tickets of corresponding numbers, one of which is dropped in the bottom of each basket. All pickers are taught to recognize a matured peach at sight and they are touched by hand only when ready to be picked.

"Careful inspection of the fruit in each basket as the harvest proceeds tunes up the quality of the pickers' work. Wagons, with hundreds of extra baskets, are always at hand, including two or more boys with each gang to 'tote' baskets, so that the harvesters may lose no time looking for empties. Low-down spring wagons, drawn by small mules, creep in and out among the trees and haul the fruit to the main avenues, where the baskets are loaded on large floats on their way to the great central packing-house.

"White labor is used entirely in the packing-shed, and at two long tables running the full length of the great building stand the men and women who, under careful instruction, take the fruit from the field-baskets and assort it into three sizes, placing in canvas trays in front of them. All inferior or over-ripe specimens are laid aside for the evaporator. If any baskets show a lack of skill or care in picking, the ticket in the bottom tells where to look for the trouble. Notice is given to the inspector, and from him to a field foreman, who gallops away on horseback to brace up the weak brother. The sorters save all the tickets found in the bottom of the baskets, and each is given due credit for tickets turned in.

"On the opposite side of the sorting table stand the packers, who take the peaches from the trays and carefully pack the six baskets in each crate solidly full. Each grade requires a particular style of pack to get all the baskets rounding and full every time. Several expert instructors in packing work up and down the line constantly, watching the work, and when a package is complete the packer's number is put in the crate label and on a ticket on top. A helper supplies a new crate and takes the full one to the nailing table, where it passes final inspection, and if not perfect in every way it is sent back for repacking. Every hour through the day the tickets are taken to the office and a record made of all picking, sorting and packing, so that at all times the superintendent and myself can know just how things are moving and what each individual is doing.

"As soon as covers are nailed on the crates they are rushed into the refrigerator-car waiting alongside, and the 560 or more crates that go in the car are so placed that there is a circulation of cold air about each one at all times in transit. These cars are iced up twelve to twenty-four hours before loading begins. The warm fruit starts the ice to melting fast and in a few hours, when the fruit is cooled, from two to three tons more of ice are required to fill the bunkers. In the fifty hours' running time to New York the cars are re-iced three times, and those going to New England points once again at Jersey City.

"Bad weather in harvesting, a neglect to re-ice a car in transit, arrival at unseasonable hours, bad weather, or an over-crowded market on the day of sale—any one of these—may cause the fruit to sell far below actual cost of putting up and delivering, to say nothing of cost of production.

"The packing-shed is a cool, airy place, comfortable at all times in the hottest weather, yet the days are long and busy, and noting that the workers were tired and languid by night, four years ago I tried the plan of resting them by music. A good string orchestra of six pieces was hired to play each afternoon from 2 until dark, or until all work was finished. There was soft, quiet music for an hour or two,

and then quick, lively airs until the finish—music all the time.

"It was a rested, happy crowd that left the shed every night after that, and I felt well repaid for the expense, while in two or three days we noted an increased output of about 30 per cent in the afternoons—enough to pay for the music and leave a profit besides. Now, therefore, the music is counted each season as one of the necessities of a profitable business. Among the blacks in the field we aim to have one or more good singers, for with these everybody is better natured and more work is accomplished with less fatigue."

Such, in part, is the story of J. H. Hale's orchard. Many others have followed his example, so there are many peach-orchards in the same part of Georgia, and the problems of marketing and of labor have become complicated and serious. These conditions would have to be taken into consideration, should any one contemplate another enterprise of this kind.

Osage Orange from Seedlings.

As I have been reading the KANSAS FARMER for over twenty years and know that it is a bureau of useful information I write to ask if you can tell me the best plans for starting an Osage orange grove for the purpose of raising post-timber. Shall I plant the seeds or set out the plants? Where can the seeds or the plants be procured?

A. E. COMES.

Chautauqua County.

The quickest way to start a post plantation is to set the seedling trees. These may be obtained from almost any nursery at a very moderate price, probably about \$3 per thousand. If the growth is slow the first year, cut them back at the beginning of the second season to secure a straight, strong growth.

Seeds may be secured from the seed-houses or may be washed out from the



NOW AT THE HEAD OF BEULAH LAND HERD OF RED POLLED CATTLE OWNED BY WILKIE BLAIR, GIRARD, KANS.

softened "hedge apples" or "oranges" where they have lain out over winter. If the seed is planted, it is more convenient to plant it quite thickly in rows and transplant at one year.

ALBERT DICKENS.

Brass.

If a man has a cheek of brass, perhaps he can afford to use any old soap for shaving. Most men, however, must steer clear of ordinary soaps, if they wish to shave with ease and safety. Common soap is too harsh for the delicate skin of a man's face. It yields a thin, miserable lather, the razor pulls, and the skin is left sore and rough. Williams' Shaving Soap is made especially for shaving tender faces, and yields a rich, lasting lather, and leaves the skin soft and velvety. As per their offer in another column, the J. B. Williams Co., Glastonbury, Conn., will send you free a trial sample. "Be fair to your face."

More butter with less work, is the ambition of every enterprising butter-maker. It is an easy accomplishment, providing you have the right equipments. Such, for instance, as the double diamond O. K. churn, which is sold on a positive guarantee to do the work. And what is better, it is inexpensive. For further information address Challenge Churn Co., 35 Randolph St., Chicago.

The Stock Interest

THOROUGHbred STOCK SALES.

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

April 18-21, 1905—Blue Ribbon Cattle Sale at South Omaha. D. R. Mills, Des Moines, Iowa, Manager.

April 19, 1905—Dickinson County Short-horn Breeders' combination sale at Hope, Kans. H. R. Little, Manager, Hope, Kans.

April 19, 1905—J. D. Stanley, Horton, Kans. Shorthorns.

April 19, 1905—Closing out sale of Shorthorns, J. D. Stanley, Horton, Kans.

April 27, 1905—Combination Poland-China sale at Coffeyville, Kans. H. E. Bachelder, Manager, Fredonia, Kans.

April 28, 1905—Combination sale of Shorthorns and Herefords at Coffeyville, Kans. H. E. Bachelder, Manager, Fredonia, Kans.

May 2-4, 1905—Blue Ribbon Cattle Sale at Sloux City, Iowa. D. R. Mills, Des Moines, Iowa, Manager.

May 16-19, 1905—Blue Ribbon Cattle Sale at Dexter Park, Chicago, Ill. D. R. Mills, Manager, Des Moines, Iowa.

June 6-9, 1905—Blue Ribbon Cattle Sale at Kansas City, Mo. D. R. Mills, Des Moines, Iowa, Manager.

Feed for Farrowing Sows.

Will you please give me the best way of feeding sows before and after having pigs? What kind of feed should be given where they can not have milk? How long should they be shut up? If the pigs get to scouring what should be done?

LEWIS RHODES.

Sedgwick County.

The feed for a brood sow before and after farrowing should be nutritious but not too concentrated. Breeders differ somewhat in their management of sows before farrowing. Some insist that they must be held in thin flesh while others have them in comparatively high condition. They will usually do well and prove satisfactory when in high flesh provided they have had the right kind of feed and plenty of exercise. As the farrowing time approaches, the feeds should be of a slop-

Warranted to Give Satisfaction.

Gombault's Caustic Balsam



Has Imitators But No Competitors.

A Safe, Speedy and Positive Cure for Curb, Splint, Sweeney, Capped Hock, Strained Tendons, Founder, Wind Puffs, and all lameness from Spavin, Ringbone and other bony tumors. Cures all skin diseases or Parasites, Thrush, Diphtheria. Removes all Bunches from Horses or Cattle.

As a Human Remedy for Rheumatism, Sprains, Bore Throat, etc., it is invaluable. Every bottle of Caustic Balsam 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, testimonials, etc. Address: The Lawrence-Williams Co., Cleveland, O.



DEATH TO HEAVEN Guaranteed NEWTON'S Hoarse, Cough, Whooping Cough, etc., it is invaluable. A veterinary specific for wind, throat and stomach troubles. Strong recommendation. \$1.00 per can, of dealers, or Exp. prepaid. The Newton Remedy Co., Toledo, Ohio.

DIP

The "Dipping Proposition"—a book on the common ailments of animals and a Simple Remedy—with a sample of the remedy, Carboleum 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.)

The **ONE MINUTE Sheep Dip**

Dipolene

also best dip in the world for hog lice. Booklet, "Dipping for Dollars," free. Marshall Oil Co., Box 14, Marshalltown, Ia.

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 Amber, 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, Elmdale, Kansas.

LUMP JAW No Cure No Pay.

W. S. Sneed, Sedalia, Mo., cured four steers of lump jaw with one application to each steer; and J. A. Keeseman, 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.



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.

Bone Spavin

Know it by the lump and the limp—a hard, bony growth on the inner side of the hock joint, usually low down and a little forward of the center of the leg—a quick hitch with the sound leg, and a stiff movement of the lame leg, bearing the weight on the toe, most noticeable in starting. New cases, old and bad cases, the very worst cases, cases where firing has failed, are cured by Fleming's Spavin and Ringbone Paste. Guaranteed to cure the lameness for good—may or may not take off the lump. Easily used by anybody, and a single 45-minute application usually does the work—occasionally two required. Write for Fleming's Horse Book before ordering. It gives all the particulars, and tells you what to do for other kinds of blemishes. FLEMING BROS., Chemists, Chicago, Ill. 212 Union Stock Yards.

can usually be overcome by feeding less corn and more of the protein feeds. Oats are a most excellent feed at such times, and should the case be a severe one, oats alone will often prove beneficial. R. J. KINZER, Assistant in Animal Husbandry, Kansas State Agricultural College.

Saddle Stallions at Excelsior Springs, Missouri.

On Tuesday, April 4, Dr. W. E. Cheatham will hold his first annual sale at Excelsior Springs. This is not the Doctor's first annual sale by any means, but will be the first held at his new location, and to make it especially attractive, he will consign eight saddle stallions, a number of driving mares and geldings and thirty head of Mammoth jacks and jennets. The saddle stallions are bred in the purple, and it is a pleasure to be able to print a picture of Missouri Squirrel who showed in Missouri for four years without a single defeat in the saddle ring. The sale will include a number of sons of the great \$7,000 Forest King, who was the highest-priced saddle stallion ever sold in the United States. One of his half-brothers will be sold and some brothers and half-brothers of Rex McDonald, the \$5,000 champion. Five of the number to be sold are out of mares by Montrose 106, who was for eight years a winner in the saddle-rings of Kentucky. The writer had the pleasure of looking at a number of these horses and was delighted with their quality. This was especially true of Forest Rockaway, a son of Forest King, whose style, speed and action served to attract a crowd of observers wherever he appeared. His half-brother, Goldhip, is a 3-year-old bay of wonderful promise. The picture which we show on another page is very true to life and is given to convey some idea of the style and quality of horses that will be sold in this sale. The jacks are descended from Old Hannibal, the \$2,000 champion, and other noted jacks from Missouri and Kentucky. Dr. Cheatham has been breeding horses and jacks for a long time and is particularly fortunate in securing a location at Excelsior Springs, Mo., for his future breeding and selling operations. Excelsior Springs is but one hour from Kansas City on both the Wabash and Milwaukee Railroads, and visitors attending the sale will also have an opportunity to test the merits of the wonderful springs at that point.

Avery's Souvenir Catalogue.

Henry Avery & Son, of Wakefield, have issued a very handsome souvenir booklet, containing portraits and sketches of their prize-winning and famous Percherons. This is the oldest herd of Percherons in the West. The first portrait is that of the new herd-header, Bosquet 40105 (46612) who won second prize in the 3-year-old class at the International of 1903 against thirty-five competitors. This portrait appeared in the Kansas Farmer of February 23, together with a statement of his many winnings. The Avery stud has been remarkable for the quality of the sires that have been used in it. Recently they had, as one of their herd horses, Dublin 24680 (44533), who was a half-brother of Casino and the sire of the first and second prize fillies at the World's Fair. The last three years of the life of the great Brilliant 11116 (2919) were spent on the Avery Farm, and there is now more of his blood in this herd than in any herd on earth. Manager H. W. Avery devotes a great deal of attention to the mare classes of his herd, as was shown by his championship winnings at the World's Fair. We desire especially to commend the Averages for the attention they give to the mares. Most breeders are painstaking with their horses, and either neglect

or fail to give sufficient attention to keeping up the quality of the mares in the herd. By giving equal care to both horses and mares Mr. Avery was enabled to breed World's Fair champions. The Souvenir is a beauty and valuable both for the art with which it was gotten up and for a book of reference.

Dickinson County Shorthorn Sale.

On Wednesday, April 19, 1905, the following breeders will join in their annual reduction sale of registered Shorthorns: O. L. Thisler, Henry Scheunung, J. E. Landis, C. M. Garver & Son, Geo. Channon, S. H. Lenhart, E. A. Sumner, H. J. Long, M. C. Hemenway, D. Ballantyne, and H. R. Little. The sale will include 50 head of bulls and females. Of these H. R. Little contributes 4 bulls and 6 heifers. The bulls are yearlings, two good enough in breeding and individual merit to head good herds. Four of the heifers are long yearlings and two are calves. These youngsters are all desirable and sired by one of the Scotch bulls, Sharon Lavender 143002 (by Lavender Chief by Golden Chief) out of Lavender Oakland 3d by Imp. King of Aberdeen; or Royal Crown by Imp. Ducal Crown.

H. J. Long and M. C. Hemenway are sending some calves by the Imp. bull, Royal Brittan, Mr. Hemenway's herd-bull, that are very nice. All the stock in this sale are desirable. Mr. Garver is putting in two extra fine young cows, one a very thick-fleshed thing carrying a calf to the service of Imp. Day Dream. This cow would be a desirable addition to any pure-bred herd in the State. There will be many valuable things in this sale. Among these may be mentioned one of H. R. Little's 2-year-old heifers and both the heifer calves. For catalogue address H. R. Little, Hope, Kans.

Consignors to the Kansas City Show and Sale.

Mr. McGavock is receiving choice consignments to the Kansas City show and sale.

Those furnishing Galloways are: N. P. Clark, St. Cloud, Minn.; C. N. Moody, Atlanta, Mo.; W. M. Brown, Carrollton, Mo.; Claude Atterberry, Atlanta, Mo.; and W. G. McCandless, Cottonwood Falls, Kansas.

Shorthorns are consigned by: D. T. Branaugh & Son, Nashua, Mo.; Daniel Donahue, Appleton City, Mo.; N. P. Clark, St. Cloud, Minn.; H. O. Lindhardt, Johnson & Gates, Laplata, Mo.; McClean Bros., Warrensburg, Mo.

Aberdeen-Angus consignors are: R. S. Williams, Liberty, Mo.; J. H. Ray & Son, Carrollton, Mo.; L. S. Cruickshank, Ladoga, Mo.; E. E. Axline, Oak Grove, Mo.; C. H. Gardner, Blandinsville, Ill.; Berry Lucas, Hamilton, Mo.; Elm Park Cattle Co., Harris, Mo.; and M. O. Stone, Milan, Mo.

The Herefords are consigned by: Benton Gabbert & Son, Dearborn, Mo.; J. W. Lenox, Independence, Mo.; Macon Bros., Lee's Summit, Mo.

There are separate catalogues issued of each breed, and can be obtained by addressing W. C. McGavock, manager, Springfield, Ill. See advertisement. Details concerning the various offerings will be given in a future issue.

Gossip About Stock.

Manwaring Bros., Lawrence, Kans., breeders of Berkshire swine, in a recent letter say: "Our stock have come through the winter in excellent shape, and we have several good boars for sale of last fall's farrow. The crop of spring pigs are now arriving and indications are that we will enjoy a lively trade this season."

Our advertiser, H. C. Stoll, Beatrice, Neb., is receiving a number of very complimentary letters from customers who have purchased his ear-marks for stock. Breeders who wish to identify their stock

can not afford to be without this modern means of identification, especially in view of the nominal cost for the same. For further particulars address H. C. Stoll, Beatrice, Neb.

Volume 5 of the American Shetland Pony Stud Book has been issued by Secretary Mortimer Levering, Lafayette, Ind. It carries the numbers of registered pedigrees from 3837 to 4579, and presents complete index of animals on record, owners, breeders and importers of the ponies registered, a list of members of the club, the rules of registry, the by-laws of the club, the scale of points by which the excellence of Shetlands is rated and other matter of interest. The price of the volume is \$2.

From many sources, during the past few days, comes the welcome news of splendid sales of pure-bred cattle of the various breeds. Evidently an active trade has set in that will soon clean up the surplus stock. No particular breed seems to have a monopoly of the active trade. A recent letter from George Drummond, Elmdale, Kans., proprietor of the Evergreen Angus herd, reports the sale of fourteen head of registered Angus heifers and three bulls to K. A. Carruthers, Osborne, Kans. The heifers are the foundation for a herd of pure-breds, while the bulls are to be used on the grade herd. Mr. Drummond also reports the sale of a herd bull to a breeder at Diggins, Mo.

The White House Herd of Berkshires now offers some choice young animals at very attractive prices. A change has been made in their advertising card this week, and it will pay to look it up on page 356 and read it. Manager W. S. Rowe is very proud of his herd as it now exists because he has gotten together some of the best blood-lines known to the breed. One of the best things that helped to establish this herd was C. A. Stannard's Gem 2d 63351. In getting the foundation stock together Mr. Rowe has bought nothing but the best he could get for money. The White House Herd managers has completed arrangements for more extensive business for the coming season and are in shape to offer some good Berkshire at prices that will please when quality and breeding are considered. Write to W. S. Rowe, Merriam, Kans., for details.

Mr. David G. Page, North Topeka, is forging to the front as a Berkshire breeder. To him belongs the honor of having bred Masterpiece 77000, who won second prize in the aged-boar class at the Louisiana Purchase Exposition and whom no less an authority than the Breeders Gazette said should have had first—he being a better boar than the first prize winner, Masterpiece was at the head of the herd of James Qurollo, Independence, Mo., from December, 1902, till May, 1904, when he was sold to A. J. Lovejoy & Son, Roscoe, Ill., who showed him at St. Louis. One of the get of Masterpiece won third prize in the senior yearling class at St. Louis. Mr. Page has just purchased a World's Fair prize-winning sow by Premier Longfellow, who was N. H. Gentry's grand champion boar at St. Louis. We venture the prediction that the Page herd of Berkshires will become one of the great herds of the State and will make plenty of trouble for competitors in the show-ring should the owner ever decide to exhibit.

Good Scotch Shorthorns have always been too rare in Kansas and every breeder who has them in his herd finds that each year's trade would take a few more of the same sort if he could raise them. This fact is enough to give to the sale of J. D. Stanley, April 19, the best attendance of breeders which any sale in Kansas had had for two years past. Mr. Stanley has carried his herd along in a quiet way and comparatively few in the business have known what he had. One thing he has had is one of the best breed-

Allen's Lung Balsam CURES COUGHS COLDS CROUP

O. E. MATSON, - FURLEY, KANSAS
Breeder of choice Galloway Cattle. Eighty head in herd. Young stock for sale. Write for prices.

Big Two Days Sale Hereford Cattle At Savannah, Andrew County, Mo., Thursday and Friday, April 6 and 7, 1905

100 HEAD—20 BULLS, 80 COWS AND HEIFERS. —PRACTICALLY ALL MY OWN BREEDING. The imported bull, Kenswick, one of my herd bulls, will be included. Here is a rare chance to get a herd header. His get in the sale will show how well he breeds. There are about 25 cows with calves at foot, and many bred again. The 40 heifers are the best lot I ever offered and they are mostly bred to my best herd bulls.

Breeding Cattle in Breeding Condition
They are hardy and prolific and I am sure will prove profitable to those who buy them as they have to me.

Selected From 250 Head
These 100 head of cattle were selected from my herd of 250 head and are in every way representative of the herd. They are the get of such bulls as Imp. Kenswick No. 111888, Mariner No. 71749, Sweepstakes No. 59291, and other famous bulls, and carry the blood of the Anxiety, Hesiod, Archibald, Grove 3d, Lord Wilton and all of the best timed strains.

FREE ENTERTAINMENT and free conveyance from town to farm. Sale at farm two miles north of town. Savannah is 12 miles north of St. Joseph, Mo., and is on the Burlington and Maple Leaf Railroads. Best of train service. Sale commences at 1 p. m. the first day and 10 a. m. the second day. Write for illustrated catalog. It is free.

Address, N. KIRTLLEY, Savannah, Mo. Auctioneers: Geo. B. Bellows and Jas. W. Sparks.

Don't Give Up.

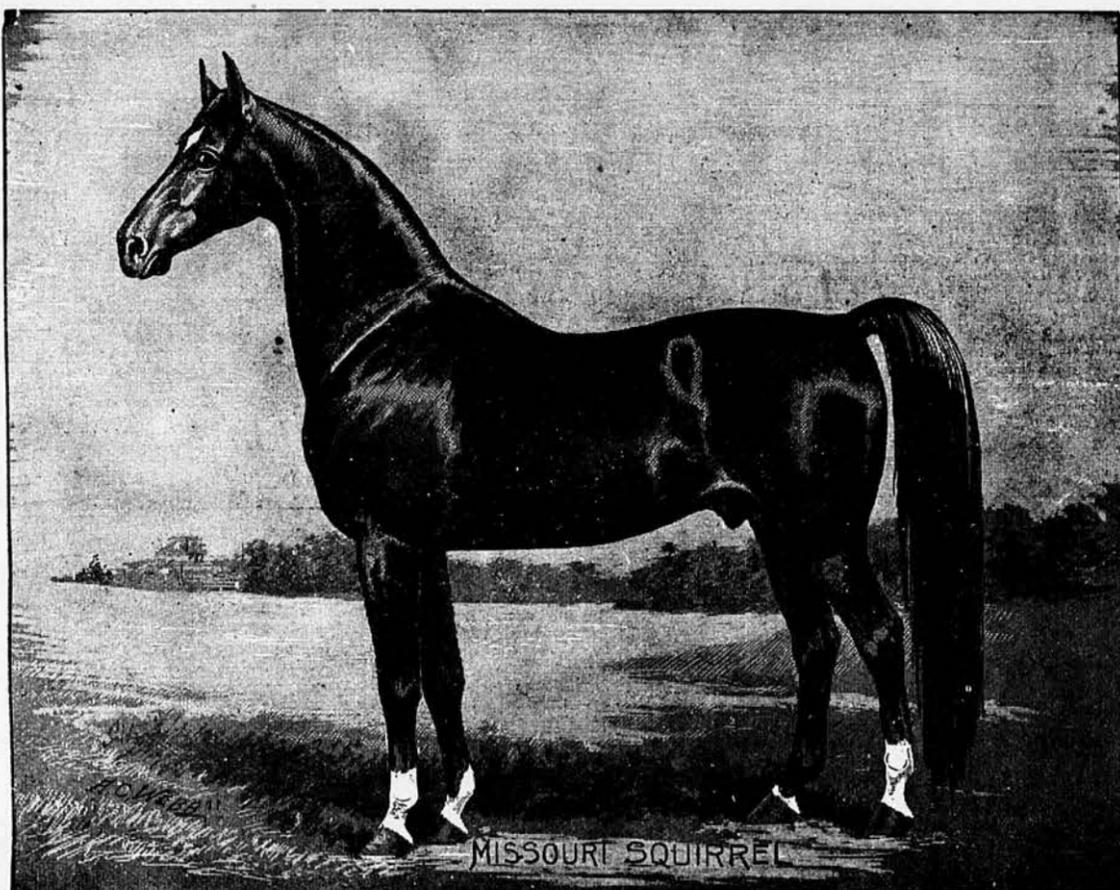


There is a cure for Spavins, Ringbones, Curbs, Splints and all other forms of lameness. It has been used all these years by the best horsemen, breeders and trainers and it never fails. That is their testimony on

KENDALL'S SPAVIN CURE.

Brooklyn, Conn., Jan. 10, 1904.
Dr. B. J. Kendall Co., Enosburg Falls, Vt., Gentlemen:—I would like you to send to my address your "Treatise on the Horse and his Diseases." I use Kendall's Spavin Cure and know its goodness as I have cured two Bone Spavins on two different horses and know it is the best of anything I ever tried or heard of.
Very truly yours,
A. M. BUTLER.

Price \$1; six for \$5. As a liniment for family use it has no equal. Ask your druggist for KENDALL'S SPAVIN CURE, also "A Treatise on the Horse," the book free, or address
DR. B. J. KENDALL CO., Enosburg Falls, Vt.



Registry Number 1017. A lifelike portrait of one of the best sons of the champion producer, Black Squirrel 58. A number of his sons and some sons of Forest King, the \$7,000 champion, and of Rex Donald, a half-brother to the \$5,000 champion Rex McDonald, will be sold by Dr. W. E. Cheatham in his great sale of Registered Saddle stallions, driving mares and geldings and Mammoth jacks and jennets which will be held at Excelsior Springs, Mo., on Tuesday, April 4.

KRESO DIP



FOR ALL LIVE STOCK SHEEP, SWINE, CATTLE, HORSES, ETC. PREVENTS AND CURES PARASITIC AND SKIN DISEASES

Kreso Dip is a powerful germicide and disinfectant, an unfailing tick-destroyer and lice-killer. It cures scab, mange and other parasitic diseases; kills dog-fleas and poultry-lice; prevents disease and keeps away flies. It is scientifically prepared in our own laboratories, never varies in strength, and is always reliable.

NON-CARCINIC, NON-IRRITATING, NON-POISONOUS

Easily prepared—just mix it with water! 1 gallon Kreso Dip makes 100 gallons ready for use.

TRIAL LOT, \$1.25 PER GALLON CAN, at your druggist's, or direct from us (charges prepaid). Special quotations on quantities. Write for descriptive pamphlet—it's free.

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BRANCHES: New York, Chicago, St. Louis, Boston, Baltimore, New Orleans, Kansas City, Indianapolis, Minneapolis, Memphis.

ing imported Scotch bulls in the country, Imp. Royal Pride whose name will be found at the top of three-fourths of the pedigrees of the catalogue. But we started to say something about the Scotch cattle in this sale. Some are Brawith Buds and are among the very few descendants of Imp. Golden Galaxy that have been kept pure. Not only has their blood been kept pure in Scotch lines but it shows as strong crosses as the breed affords. One of the nice things in the sale is a close descendant of the great show cow, Imp. Red Ruth, by Star of the Morning. One of the Scotch cows, Scottish Day-break, has a record as a milker, and will be sold with a certified report of a test made with her. There are two Scotch bulls, beside the imported herd bull who will also be sold as this is a dispersion sale. The two young fellows are respectively sons of Barmpton Knight 148706 and Lavender Lad 188918. Lavender Lad, if we are not mistaken, was the sire of the first prize cow in the dual-purpose class at the World's Fair, at least she was bred by Otto Colbush, who bred this bull. The Scotch cow with the milk record will be in calf to Lavender Lad, by the way, so here is the chance for somebody who wants to show what the Shorthorns will do as milkers. But a second feature of this sale, and one about as important as the Scotch feature, is the high-class Scotch-topped stuff that will be sold. There is show material among them and no wonder, for many carry the crosses that made the once famous show herd of S. W. Cheney. The reader of the catalogue will find that he frequently comes across Imp. Prime Minister, Lord Lucan, and the flashy young bull, Minister, that rivaled Dr. Primrose, once champion of the West, for his finish and compactness. Then, too, while reading the catalogue, notice the succession of strongly bred Scotch bulls that appear in the top lines, the sires represented in the sale. The list includes beside Imp. Royal Pride, whose showing of yearlings will bother any bull in the west to beat, the following: Golden Lad, chief stock bull in the herd of M. A. Low; Red Knight, first brought into prominence by D. L. Dawdy & Co., and now said to be one of the most valued bulls in Iowa; Clipper Chief, son of the famous show-cow, Imp. Red Ruth and sired by the best bull that went through Platt's record-breaking Chicago sale; Imp. Trout Creek Clan Alpine, Barmpton Knight and Lavender Lad. Few sales show an equal list of sires and this one will justify expectations. Send now for a catalogue (they are ready and waiting) to the owner of the herd, J. D. Stanley, Horton, Kans. The sale will be made on Mr. Stanley's farm adjoining town.

Hog Lice.

But one species of lice attack hogs. It is a common parasite, however, and often appears in formidable numbers on unthrifty pigs. It is only when a hog is unthrifty or sick that lice are a serious menace to the animal. When in this condition the hog seems to be unable to dislodge them and they multiply very rapidly. The bite of the hog louse is very irritating and it lives by sucking the blood of its host. The irritation from the hog to rest and if sick they help to increase the anemic (bloodless) condition. Lice are a serious handicap to growing pigs, interfering with their appetite and general nutrition. They are said to cause urticaria (nettle-rash or heat sores). Because of the thinness of the hair and the size of the parasite it is quite easily seen. The favorite seats are back of the ears, along the neck, under the breast, back of the arms and on the inside of the thighs, in fact, in places where the skin is moderately thin and it is not easy to dislodge them. Treatment.—It is more difficult to kill lice scattered around hog-houses or yards than it is when on the hogs. For this reason it is difficult to get rid of the lice in a drove of hogs as they can become infected in the sleeping quarters or about the pen. The hair affords but little protection and makes the application of remedies for their destruction quite easy. The coal-tar preparations such as Zenoleum are to be preferred as remedies for lice. The hog can be sprayed or dipped with any of these preparations. Dipping is to be preferred and is a very effective method of getting rid of lice. Pigs a few weeks old can be caught and immersed in a barrel. If a large num-

ber are to be treated it is best to have a dipping tank. The tank should be sunk in the ground and contain enough of the solution to cover the hog when it jumps into it. Zenoleum can be had of most any druggist or of the Zenner Disinfectant Company, 61 Bates St., Detroit, Mich. If you have not a copy of their famous booklet, "Piggies' Troubles," would advise that you quickly send for one. They are free to readers of this paper.

An Interesting Story.

To be able to tell a story interestingly is an art. The good story-teller is always popular, always in demand. And when the story told has a lesson in it and is related in a fascinating way, it is doubly entertaining. If it goes farther and adds to the sum total of human knowledge it is valuable. This thought comes to us after reading a little business book called "Dipping for Dollars." It is beautifully printed and illustrated and tells the story of Farmer Wilson, and how he learned a lesson late in life that he should have known and profited by all the years of his manhood. Of course Mrs. Wilson was really the instrument used to open his eyes, and her shrewdness saved the Wilsons a lot of money. If you are a farmer and stock-raiser, no matter how few or how many head of stock you have, it will pay you to do as Mrs. Wilson did. If you are a farmer's wife and see leaks on the farm that ought to be stopped, Mrs. Wilson's experience and advice may contain some helpful hints that will show you how to do it. Anyway, we know that you will enjoy reading the story. It is published by the Marshall Oil Co., Marshalltown, Iowa, and will be sent free to any of our readers who will take the trouble to send for it and mention this paper.

Wonderful Brome Grass.

Many Western farmers have learned from their own experience that Bromus inermis or Brome grass as it is more commonly called is one of the best if not the very best pasture grass ever introduced into this section but thousands have this yet to find out. One enthusiast writing from Nebraska says, "I deem it the best thing that has been brought to this State since the advent of corn and alfalfa," certainly high praise. Brome grass grows anywhere. Of course the better the soil the better the yield. But even on dry, sandy uplands of the Western States where ordinary grasses do not grow at all Brome grass thrives wonderfully making a thick, sweet pasture that all kinds of stock eat greedily with great profit to their owner. Analysis shows that it contains more flesh-forming elements than any other grass. It is the earliest of all grasses to start in the spring, stays green all summer and is the last to turn brown with fall frosts. It does not winter-kill even when exposed to alternate freezing and thawing. It spreads rapidly from creeping root stalks and will bear the closest pasturing. Only one danger: avoid cheap seed. Good pure Brome seed is worth all that responsible dealers ask for it. Cheap seed is likely to be adulterated or it may have failed in testing for vitality. Our advertisers, the Griswold Seed Company, pride themselves on the purity of all their seed. They write us that they have a good stock of unusually fine Brome seed. They carry a complete line of everything for field and garden and their catalogue presents their line in a clean, convincing way without absurd or extravagant claims that characterize some seed catalogues. Write for a free copy to-day, addressing, Griswold Seed Company, 185 So. Tenth St., Lincoln, Neb., and mention Kansas Farmer when you write.

When writing advertisers please mention this paper.



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If you want the best

Look for our Trade Mark

Mr. E. A. James, of Ewart, Iowa, writes as follows:
Iowa Stock Food Co., Jefferson, Iowa.
Gentlemen: I have been feeding Iowa Stock Food for four years to the amount of about 2,000 pounds yearly. I have tried my cattle with and without Stock Food and am confident I get a larger profit out of the Stock Food I feed than out of any other part of the rations.
I find Iowa Stock Food the equal in every respect of any Stock Food I have fed, and cheaper on account of its superior strength.

WHAT IOWA WORM POWDER WILL DO.

Perry Henderson, of Iterberry, Ill., writes as follows.
Gentlemen: The Iowa Worm Powder you shipped me by express December 24, 1904. I received it on December 26th. I went to feeding right away and there was no end to the worms that came from my hogs.
I had 80 head of shoats and they were in bad shape. Since feeding the Worm Powder I have been feeding Iowa Stock Food and I never had shoats do any better than mine are doing now.
I had some of my neighbors use some of the Iowa Worm Powder and they got the best of results from it. I got a man to use it who was using another worm remedy. He now thinks the Iowa Worm Powder the only worm remedy, and says he will not use the other any more. I wish you could have seen the worms that passed from his hogs. It was a sight. I advised him to feed Iowa Stock Food to keep his hogs gaining better.

Write us, care of Dept. E, and get our Special Offer.

IOWA STOCK FOOD CO.
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Vaccination with BLACKLEGOIDS is the best preventive of Blackleg—simplest, safest, surest. Each BLACKLEGOID (or pill) is a dose, and you can vaccinate in one minute with our Blacklegoid Injector.

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The Original Hog Dip and Feed, used and endorsed by thousands of the leading hog breeders of the country. Kills all vermin; cures mange, scurvy and all skin diseases. It makes the skin soft; removes worms, cures cough, aids digestion, kills fever germs, and IMPROVES THE HEALTH AND VITALITY OF YOUR HOGS. Positively non-injurious to eyes, skin or hair. Price, \$1.75 per gallon, at dealer's or direct, express paid. Send for free book on Care of Hogs.
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They feel better, look better, work better, and are less liable to catch cold. Don't let your horses stand in the barn all night with a heavy damp coat of hair on. It weakens them and they lose flesh. If clipped they dry out quickly, gain flesh and can be groomed in one fourth the time. Weighs only 15 lbs. Clips a horse in 30 minutes. Send for Catalogue H
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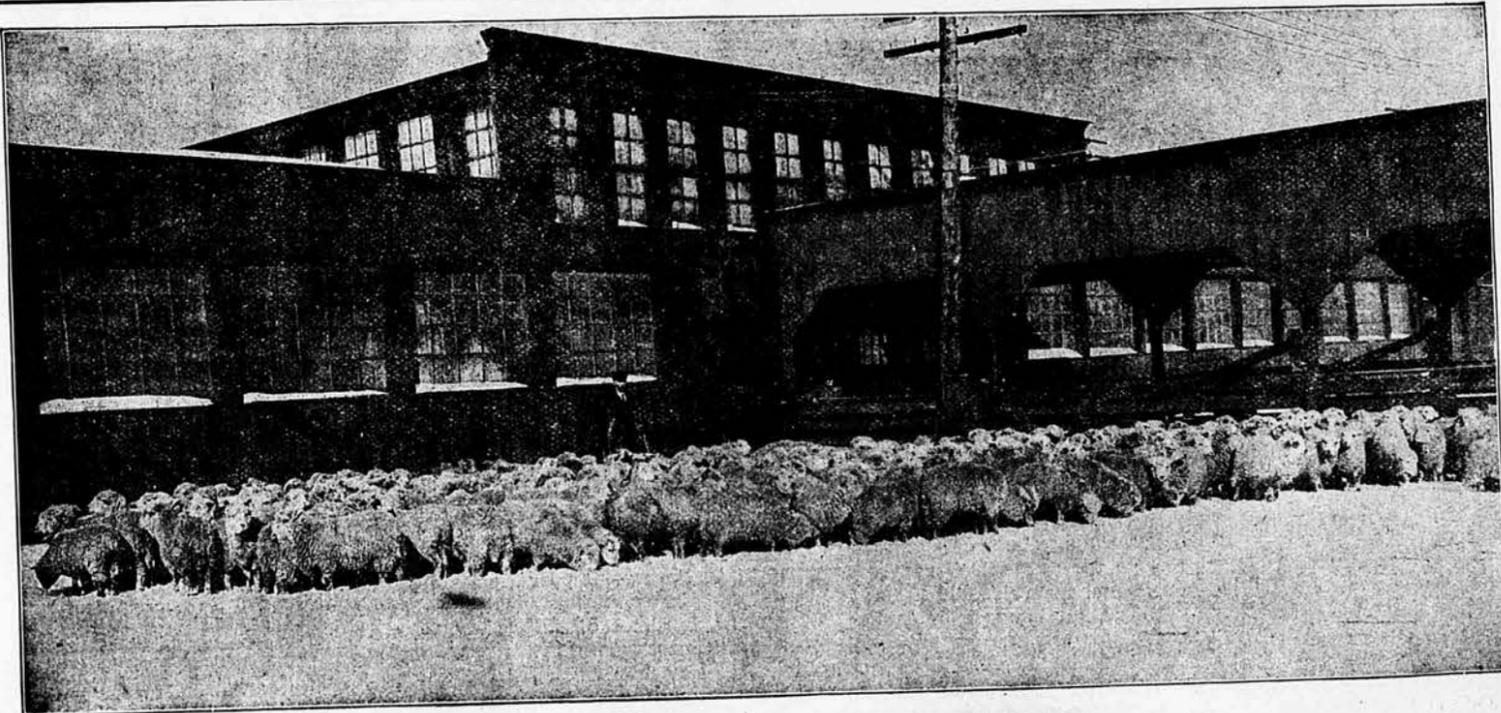


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EAR MARK.

The best and cheapest ear-mark made. It possesses more points of merit than any other make. Send for samples. H. C. Stoll, Beatrice, Neb.

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Send us your address and we will show you how to make \$3 a day absolutely sure; we furnish the work and teach you free, you work in the locality where you live. Send us your address and we will explain the business fully, remember we guarantee a clear profit of \$3 for every day's work, absolutely sure. Write at once. ROYAL MANUFACTURING CO., Box 898 Detroit, Mich.



The Sale That Set a New Mark at Kansas City

Above is part of a string of lambs owned by L. H. Cheney, Monte Vista, Colo., sold at Kansas City, Feb. 15, 1905, by CLAY, ROBINSON & CO., at \$7.90, highest price ever paid for Colorado lambs on that market. Average weight 73 lbs. Mr. Cheney (in fur coat) is seen standing behind the lambs.

The Young Folks

CONDUCTED BY RUTH COWGILL.

Concord Hymn.

By the rude bridge that arched the flood
Their flag to April's breeze unfurled,
Here once the embattled farmers stood,
And fired the shot heard round the world.

The foe long since in silence slept;
Alike the conqueror silent sleeps;
And Time the ruined bridge has swept
Down the dark stream which seaward creeps.

On this green bank, by this soft stream,
We set to-day a votive stone,
That memory may their deed redeem
When, like our sires, our sons are gone.

Spirit, that made those heroes dare
To die, or leave their children free,
Bid Time and Nature gently spare
The shaft we raise to them and thee.
—Ralph Waldo Emerson.

Limericks.

There was an old man of Terrentum,
Who gnashed his false teeth till he bent
'em.
When asked what he'd lost,
And what they had cost,
He replied: "I don't know—I just rent
'em."

When every weekly and almost every daily paper is bursting into humor in this form, and when the spontaneous production of such verses is regarded as an up-to-date method of entertaining an evening company, it may be a surprise to some to learn that the Limerick is this year celebrating its fifty-ninth birthday, having made its debut in literature in 1846.

The untitled will be further surprised to learn that the first extensive user of this fantastic, not to say flip-pant, form was a learned ornithologist, the author of a most serious and scientific work upon "The Family of the Psittacidae." But the elect will smile, remembering that the author of "The Jabberwock" and "The Hunting of the Snark" wrote also "A Syllabus of Algebraical Geometry" and "A Treatise on Determinants."

Edward Lear, however, though his "Book of Nonsense Verse" contains the first published Limericks, lays no claim to the invention of the form, which he says was suggested to him by an unnamed friend. During his life he produced no less than two hundred twelve stanzas in this form, and among them are numbered such gems as:

There once was a man with a beard,
Who said: "It is just as I feared—
Two owls and a hen,
Four larks and a wren,
Have all made their nests in my beard,
and in it appeared some of the master Limericks of the century, as:

I wish that my room had a floor—
I don't care so much for a door—
But this walking around
Without touching the ground
Is getting to be quite a bore.

Alas! "The Lark" has sung its swan-song and warbles no more!
One Limerick has the distinction of being credited to Rudyard Kipling:

There was a small boy of Quebec,
Who was buried in snow to his neck.
When asked: "Are you friz?"
He replied: "Yes, I is;
But we don't call this cold in Quebec."

The greater number, however, are anonymous, and may be most easily classified according to the subject.

This, for example, treats of a historical theme:

Cleopatra, who thought they maligned her,
"If, when pettish," she said,
"I should knock off your head,
Won't you give me some gentle reminder?"

The following may be selected as an example of tragedy treated in the Limerick form:

There was a young man named McCall,
Who went to a fancy-dress ball.
He thought, just for fun,
He would dress like a bun,
And was eat by the dog in the hall.

Also:

There was a young lady from Lynn,
Who was so exceedingly thin
That when she essayed
To drink lemonade
She slipped through the straw and fell in.

And also:

There was an old man of Thermopylae,
Who never did anything properly;
But they said: "If you choose
To boil eggs in your shoes,
You can not remain at Thermopylae."

To parody such a production as this might hastily be declared impossible.

But witness the performance of W. S. Gilbert, of Sullivan and Gilbert fame:

There was an old man of St. Bees,
Who was stung on the arm by a wasp.
When asked: "Does it hurt?"
He replied: "No, it doesn't;
But I thought all the while 'twas a hornet."

Speaking of impossibilities, there is an anonymous Limerick which declares:

There was a young maid who said, "Why
Can't I look in my ear with my eye?
If I give my mind to it,
I'm sure I can do it—
You never can tell till you try."

The reason for calling this form of verse a Limerick is veiled in mystery. Edward Lear does not stand sponsor for the name, and it may as well be confessed that the question might not be helped if he did. He does stand sponsor for such appalling syllabic concatenations as "scroobious," "mel-obious," "ombliiferous," "borascible" and "slobacious," and whether the lexicographer finds their etymology any clearer on that account may well be doubted.

A dozen or more years ago "The St. Nicholas" published a series of animal Limericks, illustrated by Birch, of which the following may serve as an example:

There once was an Ichthyosaurus,
Who lived when the earth was all porous;
But he fainted with shame
When he first heard his name,
And departed a great while before us.

More recently this playful form of verse found a congenial harbor in the columns of "The Lark," a periodical devoted wholly to nonsense and from which every contribution having the faintest suspicion of intelligence was rigidly excluded. Gelett Burgess, who has enriched our literature with the immortal "Purple Cow," was its editor.

Certain Limericks find their chief charm in a satiric touch, and it is not surprising to occasionally find the fair sex the victims:

Eliza, she never was nifty,
She was kindly and gentle and thrifty,
She gave poor people pies,
And she never made eyes—
But then—she was seven and fifty.

But there are others who suffer:

There was a young man so benighted
He couldn't tell when he was slighted,
And out at a party
He'd eat just as hearty
As if he'd been really invited.

And it is sad to note that even the clergy have not been spared:

A curate once smote at a tee,
And threw his new club up a tree,
Saying: "Fie! My! Oh, dear!
I must give up, I fear,
Either golf or the ministree."

Occasionally good advice is made the subject of Limerick. Note this one, which bears the title, "Make the best of Adverse Circumstances":

There was a young person named Clyde
Who was once at a funeral epied.
When asked who was dead,
He smilingly said:
"I don't know—I just came for the ride."

The following is unclassified:

There was a young fellow named Tate,
Who ate with his girl at 8.08.
Since Tate did not state,
I can not relate
What Tate at his tete-a-tete ate at 8.08.

Of the modern Limerick writers, Carolyn Wells, the creator of "Gentle Jane," is one of the most prolific, and also one of the most successful. Though, from the standpoint of a critic she has taken nonsense seriously, there is no lack in her verses of either spontaneity or "point," which is more than may be said of all modern Limericks; for it is a sad fact (how-belt one of which many writers show abundant ignorance) that everything which is written in Limerick form is not funny.—Selected.

A Little Lesson in Grammar.

Careless habits of speech are among the prominent faults of our young people, even those young people who have advantages of schools and intelligent home surroundings. Recognizing this, the professor of English literature at Wellesley College has prepared a list of "words, phrases, and expressions to be avoided," from which the young (and old) readers will receive many serviceable hints:

Guess, for suppose or think.
Fix, for arrange or prepare.
Ride and drive, interchangeably. (Americanism.)

Real, as an adverb, in expressions real good, for really or very good, etc.

Some, or any, in an adverbial sense; e. g., "I have studied some," for somewhat. "I have not studied any," for at all.

Some ten days, for about ten days.
Not as I know, for not that I know.
Storms, for it rains or snows moderately.

Try an experiment, for make an experiment.

Singular subject with contracted plural verb, e. g., "She don't skate well."

Plural pronoun with singular antecedent: "Every man or woman should do their duty;" or, "If you look any one straight in the face, they will flinch."

Expect, for suspect.

First-rate as an adverb.

Nice, indiscriminately—(Real nice may be doubly faulty.)

Had rather, for would rather.

Had better, for would better.

Right away, for immediately.

Party, for person.

Promise, for assure.

Posted, for informed.

Post-graduate, for graduate.

Depot, for station.

Stopping, for staying.

Try and do, for try to do.

Try and go, for try to go.

Cunning, for small, dainty.

Cute, for acute.

Funny, for odd or unusual.

Above, for foregoing, more than or beyond.

Does it look good enough, for well enough.

Somebody else's for somebody's else.

Like I do, for as I do.

Not as good as, for not so good as.

Feel badly, for feel bad.

Feel good, for feel well.

Between seven, for among seven.

Seldom or ever, for seldom if ever, or seldom or never.

Taste and smell of, when used transitively. Illustration: We taste a dish which tastes of pepper.
More than you think for, for more than you think.

These kind, for this kind.

Nicely, in response to an inquiry for health.

Healthy, for wholesome.

Just as soon, for just as lief.

Kind of, to indicate a moderate degree.

The matter of, for the matter with.

Reading.

Be sure, then, to read no meaner books. Shun the spawn of the press or the gossip of the hour. Do not read what you shall learn without asking in the street and on the train. Dr. Johnson said, "he always went into the stately shops;" and good travelers stop at the best hotels; for, though they cost more, they do not cost much more, and there is the good company and the best information. In like manner, the scholar knows that the famed books contain, first and last, the best thoughts and facts. Now and then, by rarest luck, in some foolish grub street is the gem we want. But in the best circles is the best information. If you should transfer the amount of your reading day by day from the newspaper to the standard authors—But who dare speak of such a thing!

The three practical rules, then, which I have to offer, are: (1) Never read any book that is not a year old. (2) Never read any but famed books. (3) Never read any but what you like, or in Shakespeare's phrase:

"No profit goes where is no pleasure ta'en;
In brief, sir, study what you most affect."

Montague says, "Books are a languid pleasure;" but I find certain books vital and spermatic, not leaving the reader what he was; he shuts the book a richer man. I would never willingly read any others than such.—Ralph Waldo Emerson.

In the widest possible application of the phrase, it becomes us to respect the burdens of society. The genius of Christ's brotherliness lay in that. He saw mankind as sheep not having a shepherd; He saw with quick insight the nature of their lives, and the burdens that lay upon their hearts, upon their souls.—W. J. Dawson.

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For the Little Ones

Dranma's Specticums.

Dear dramma lost her specticums
One day not long ago,
An' everybody had to hunt,
Because her missed 'em so.
Her shooked us an' her shooked her llose.
An' hunted evwywhere,
On top the mantlepiece and tlock,
An' under evvy chair.

We turned tee whole p'ace upside down;
The booreau was ransacked;
An' dramma's sewing boxes were
Des one by one unpacked.
'Twas drefful how we all did hunt,
Wif dramma 'fraid that we
Might step on 'em an' break, too,
An' den how tould her see?

'Tause dramma tant do nussin' 'tall
Wifout her specks, you know,
An' dat's de weason dat we all
Des hunted high an' low.
When evvy sing was all upset.
Now, what do you suppose?
Why, dramma foun' dose specticums
Wight on her pweclous nose. —Anon.

Teddy's First Pockets.

"I want pockets in my new pants," said Teddy.

"You are too little," said mamma.

"Please, mamma!" Teddy pleaded.

"Pockets go with pants. All the big boys have them."

"Well," mamma replied, "I suppose you must have them. Yes, I will put some in."

"Nonsense!" exclaimed Aunt Emily. "Clara, you don't mean to let that baby have pockets?" He will have them full of rubbish and in a dreadful condition all the time. He's too little for trousers, to say nothing of pockets."

But mamma put the pockets in, and Ted was happy. He went round with his hands in those little snuggeries, feeling very proud and grown-up, and trying to whistle, and by and by he began to put things into them.

"If I had the darnin' cotton, I would mend the stockings," said grandma, "but it isn't in the basket."

"Here it is," said Teddy, taking a little black ball out of his right pocket. "I found it behind the door, grandma. I didn't know it was darnin' cotton; I thought it was just string."

"You didn't happen to find my pencil, did you?" asked Sister Sue. "I lost it yesterday and I can't find it anywhere."

"Yes," said Teddy, "it was in the waste-basket. I picked it out and put it in my pocket. I didn't know it was yours, Susie," he said as he passed it to her.

Pretty soon mamma could not find her thimble. "I had it this morning," she said, "and all at once I missed it. I am sorry, for it was the one you gave me, Emily."

"Here it is," said Teddy. "I found it down in the pansy bed. I meant to give it to you, but I forgot."

"It must have fallen off the window-sill," said mamma. "I remember now; I was sitting by the garden window."

That afternoon Sister Mary asked me if anybody had seen a button, for she had lost one off her blue dress, Tom inquired if anybody had run across his jack-knife, which he was using at noon and mislaid; Johnny needed a piece of string in a hurry, and grandpa could not find a little nail. All these things Teddy produced as they were wanted.

"I take it all back, Ted," said Aunt Emily, laughing. "Your pockets certainly are the most useful ones in the family. You don't happen to have a box of chocolates, do you?"

"No," Teddy replied soberly, "but I have some candy that isn't chocolate. Mr. Smith gave it to me. It's taffy."

Aunt Emily laughed again. "There, Clara," she said, "I told you so! — Elizabeth Hill, in Youth's Companion.

Take life like a man. Take it as though it was—as it is—an earnest, vital, essential affair. Take it just as though you were born to the task of performing a merry part in it, as though the world had waited on your coming. Take it as though it were a grand opportunity to achieve, to carry forward great and good schemes, to hold and to cheer a suffering, weary, it may be heartbroken brother. — Charles H. Spurgeon.

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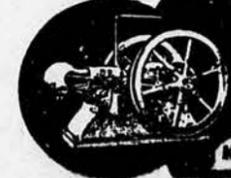
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The Dual-Purpose Cow.

She is the farmer's cow, as everybody knows. She has more real worth than any cow that grows. She pays the grocery bills and gives us meat to eat. Puts butter on our bread and shoes upon our feet.

And when the tax comes due, the interest we must pay, The dual purpose cow will raise the cash some way. Mortgages she's lifted, and paid off, by the score; Oft'times the wolf she drove from out the poor man's door.

She does not cry aloud and of her merits tell, But in a modest way she does her duty well. Shame on him who would rob her of honors won, Or, upon another, bestow what she has done.

Sing the song of homage, to special-purpose cow; In justice to this matron, and to her humbly bow; Weave for her wreathes of laurel and place upon her brow; She is the worthy matron, the dual-purpose cow.

—Wilkie Blair, Buelah-land Farm.

The Pine and Oak and Violet.

FLORENCE SHAW KELLOGG.

"The pine and oak are only flowers grown large. They drink the beads of dew like violets, meek and blue."

Our bravest and best men and women, our Washingtons and Lincolns and Longfellows and Whittiers, our Mrs. Stowes and Miss Willards, and the hosts of others whose names are known in all homes, and who are our patron saints and blessings, they, too, are but the flower of humanity, grown large because they are brave and strong and true, uplifted above the masses by the might of their manhood and womanhood and the power of the good spirit within them. They are strong to serve, strong to stand with unswerving feet for the right, sharing Truth's "meager curst," fearless and brave, blessing and being blest wherever they may be. They climbed the dizzy heights in true humility and steadfast courage and unchanging purpose. We look to them with reverence and awe, and yet they are but men and women like ourselves. They had the same faults to overcome, the same unlovely traits to put down; they waged the same unceasing conflict with selfishness, and felt the same need of "putting off the old man" and of the renewing of the spirit through truth and love day by day, as ourselves. Because they conquered, we, too, may hope to conquer. Because they stand upon the heights, we may hope some day to stand there; for humanity is the same in its essence, and life and hope are for all alike, the gracious gift of the all-Father who is no respecter of persons but watches with the same impartial love over the highest and the lowest alike.

Though we can not all be statesmen, poets, or public workers of any kind, we can be true and good men and women and do our work, whatever it may be, as "seeing him who is invisible." There is need of the lowly workers as truly as of the greater ones—need of the violets as well as of the oak and the pine. Though they hide away under the shade of trees, their perfume steals out upon the still air and comes as a benediction to those who pass by. The tiny floweret cheers the heart of the child and of the aged one alike. Whatever the changes may be, however many years may have fled since our childhood days, the scent and the sight of violets carry us swiftly back and make us children again. The years with all their burden of care and worry, all their mingled good and bad, slip away in the twinkling of an eye, and again we gather the violets in the old orchard, or by the banks of the wayside spring. Happy, care-free childhood! "The world forgetting, by the world forgot."

"Oh, flowerets of the field, Who turn your tender faces to the sun Glad of the light, and gateful with sweet breath Of fragrance, and these robes of reverence donned,

Silver and gold and purple, none of ye Miss perfect living, none of ye despoil From happy beauty."

Who has not felt it all? Who has not received this holy baptism of youth and youthful joy at the sight of the "glad gold" of the dandelion and the blue and pink and purple of the dear wayside flowers? Pines and oaks we must have—symbols of strong endurance and of mighty attainment, telling the story of the passing centuries, as with giant arms outspread heavenward they stand unshaken while generation after generation of men come and go. With unyielding force they battle with the elements and send their great roots deep down into the earth; magnificent in size and proportion, they command our reverent attention and regard. But the tiny violets, growing almost unnoticed beneath their shade, touch the heart with quicker, holier thrill. From childhood to age we cull them. They have part in all the great changes life brings. They wreath the fair brow of childhood and feel the last cold clasp of the aged. The birth-chamber, the bridal-chamber and the death-chamber alike are graced with flowers. They meet and cheer us at every turn upon the way of life, and no tongue can tell the worth or graciousness of their silent ministry. Well are they called the "alphabet of angels"—and of God, by which He spells out His great love story and tells the undying soul and the eternal home where the flowers never fade or wither.

Who that watches the yearly resurrection, noting the deepening green of grass and trees, the budding and blossoming of flowers on hill and dale, the gladness of new life everywhere, hearing the thrilling songs of birds in their mating and nest-building, the merry hum of insect-life filling all the air, seeing the "tenderness of color, the grave tenderness of the far-away hill purple," as life stirs in the roots and reaches upward until it "Climbs to a soul in the grass and flowers"—who, seeing, hearing and feeling all this can doubt that it foreshadows his own resurrection in the fullness of love and joy?

What would spring be without the flowers? What would life be without the lowly workers, the humble men and women who, hidden in the shadow of the great and famous ones, without noise or bustle, voiceless almost as the flowers, carry on the work of the world and make all around them comfortable, glad and good? They do their appointed work in their appointed places unknown and unknowing save of God, yet are as indispensable as is the air we breathe. Though the few may tower on high like the oak and the pine, the many must be content in lowly places—content to be violets, having for their sustaining the thought that in God's work all are needed, the lower as well as the higher—the lesser as well as the greater—and in his sight there is no high or low, but all are alike good and necessary to the growth of humanity and to forward the coming of His kingdom "on earth as it is in Heaven."

Age Constitution of the Population.

About three-fifths of the total population of the United States are between 15 and 60 years old—comprising what is sometimes called the "productive" age group. This is a larger proportion of the population than is found in the same age group in most European countries—a fact which is due to the large number of foreign-born adults in our population. But the only European countries which have so small a proportion of their population at "productive ages" as is found in the native white population of the United States are Holland and the Scandinavian countries.

Nearly one-fourth of the population are less than 10 years old and over three-sevenths are less than 20. Less than one-seventh have accomplished half the possible hundred years of human life, and only 23 out of every thousand have passed the allotted "three score years and ten."

To live long it is necessary to live slowly.—Cicero.

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Our Club Roll.

Mutual Improvement Club, Carbondale, Osage County (1895).
Give and Get Good Club, Berryton, Shawnee County (1902).
Women's Literary Club, Osborne, Osborne County (1902).
Women'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).
Challiso Club, Highland Park, Shawnee County (1902).
Cultus Club, Phillipsburg, Phillips County (1902).
Literature Club, Ford, Ford County (1903).
Sabeau Club, Mission Center, Shawnee County, Route 2, (1899).
Star Valley Women'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).
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Women's Country Club, Anthony, Harper County (1902).
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Prenils Reading Club, Cawker City, Mitchell County (1903).
Cosmos Club, Russel, Kans.

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

The Traveling Art Galleries.

The Traveling Art Galleries, a project like the traveling libraries, carried out under the auspices of the State Federation of Woman's Clubs, has been a matter of a good deal of interest to the country-club women. It has already proven a success and will doubtless be an increasingly helpful and enjoyable resource to clubs all over the State. They are for the free use of the State. If your club desires to enjoy these beautiful collections of pictures you may write to Mrs. Kate A. Aplington, Council Grove, Kans., and she will send you full particulars as to how to obtain them, and when you can obtain them, and write you suggestions for conducting a successful exhibit.

You run no risk. The only guarantee is for transportation charges on the pictures. Out of the 18 clubs that have this year enjoyed the Art Gallery every one has more than made expenses, and almost every one has made over \$10.00 clear, the average for each club being \$14.00. More important than this is the esthetic and educational value of the exhibit to the communities where it is held.

The pictures are of exceptional interest because on every picture is written a "story" explaining it to those who care to know.

Some of the prominent towns where the exhibit has been of unusual interest are Hays City, Manhattan, Kinsley, Winfield, and Columbus.

To make the enterprise a real success an endeavor should be made to interest as many people as possible, the old and the young, teachers, parents, clubwomen, etc., not only those who acknowledge their delight in beautiful pictures but those who fancy that they might not care for an "Art exhibit."

In order to do this, it is a good idea to combine a display of a little different sort with the Traveling Art Gallery exhibit.

Winfield gave three prizes for the best specimen of free-hand drawing, contributed by the schools of the city.

Kinsley had a number of prizes donated by the merchants and these were awarded for free-hand drawing, map drawing, penmanship, fine needlework, etc., done by the school children. The whole town was interested in this competition.

Columbus asked for the loan from the townspeople of art work of all kinds, paintings, drawings, decorated china, burnt wood; for Indian and Mexican curios; for old-fashioned things, clocks, chairs, coverlets, old-fashioned dresses, books, etc. When a whole community has a personal interest in the exhibit it is sure to be a financial success; and it also means

Amatite ROOFING

Its cost is so little—its usefulness is so long—every farm building and warehouse ought to be under AMATITE.

It is such a good roof much can be said about it. We prefer to send you a Free Sample, however, and you can judge for yourself.

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Tells what the Fashions are and what they cost.

Fashions for Women, Men and Children, and correct things for Home use on a price basis that will make you want to send your orders here.

Write for this Fine Dry Goods Catalogue, No. 41.

BOGGS & BUHL,
Allegheny, Pa.

The Kansas State Agricultural College

A ten weeks' summer course in Domestic Science and Art for teachers will begin May 23, 1905. The regular spring term of the college begins March 28th. All of the common school branches are taught each term, and classes are formed in all of the first-year and nearly all of the second-year studies each term. Write for catalogue.

PRES. E. R. NICHOLS,
Box 50, Manhattan, Kans.



BEING A LADY

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.

ASK YOUR DRUGGIST FOR

Mexican Rose Cream

The greatest of all skin foods Removes pimples, blackheads, and restores the bloom of youth.

that a great number of people have been induced to come and view this magnificent collection of pictures. Seeing them, they will enjoy them and thus the love and knowledge of art will be more widely diffused in the different communities and the great purpose of the Art Galleries will be fulfilled.

If a club will enter heartily into the work, it will find itself richer in social and cultural experiences, and will find money in the club treasury beside.

AMERICAN LITERATURE PROGRAM.

Ralph Waldo Emerson.

Roll-call—Quotations from his poems.

- I. Emerson's Poetry.
- II. Reading, (Concord Hymn).
- III. Brook Farm.
- IV. "The Best Hotels" in Literature.

For the first paper on this program a comparison should be made between Emerson and the other poets we have studied. Emerson was not primarily a poet like Whittier and Longfellow. He was, like Lowell, a philosopher, yet it would be hard to find in literature two men more utterly dissimilar. Lowell's philosophy was of the keen, practical humanitarian sort; Emerson's was subtle, cold and aloof. These comparisons carried further, and others, will form a very interesting and illuminating study of the great transcendentalist. The Concord Hymn, which is to follow this paper, is the best known, though perhaps not the most typical, of Emerson's poems. It was read at the unveiling of the beautiful monument which guards the old bridge over the tiny river, "where once the embattled farmers stood," on that momentous morning in 1775.

The Brook Farm project was perhaps the most noted communistic experiment ever undertaken in this country. It was remarkable chiefly because of the character of men and women participating in it.

The topic for the fourth paper was taken from Emerson's essay on Reading, a part of which is quoted on the Young Folks' page. "Good travelers stop at the best hotels. * * * In like manner the scholar knows that the famed books contain first and last the best thoughts and facts."

THE INTERNATIONAL SUNDAY-SCHOOL LESSON.

(Copyright, Davis W. Clark.)
Second Quarter. Lesson I. John 10:7-18.
April 2, 1905.

Jesus the Good Shepherd.

Jesus had lately used those indispensable, "light" and "water," as emblems of His office and function. He now employs a new figure, almost as familiar, for the Hebrews were always a pastoral folk. This, with the story of the Vine and Branches (chapter XV), is said to be the only instance of allegory in the New Testament.

The Jewish Church had grown into a great ecclesiastical establishment, furnishing numerous offices of honor, power, and emolument. These were naturally sought by the ambitious, and held tenaciously by the successful. One object of this allegory is to set forth the character of these mercenaries. Like thieves, they have effected an entrance in such a way that their true character has not been discovered. But, though they have obtained the garb of office, they do not have the following of the true members. The latter, instead of following, flee, and do not hear them. The character of these false shepherds is further delineated. They work havoc in highest interest of men, they steal, kill and destroy in the realm of spiritual values. Their purely mercenary spirit is indicated by the epithet, "hireling." In any final crisis, when the very life of those whom they serve is at stake, they would fly like arrant cowards. Thus, with steady and courageous hand, Jesus held the mirror before the hierarchy of His day.

On the dark background of the false shepherd Jesus now projects the ideal of the true. He is one who enters

upon His functions in the appointed way. The Holy Spirit (the porter) approves; the Church recognizes Him (the sheep hear His voice). His life is spent in care of the flock; He calleth, leadeth, putteth forth, goeth before.

Jesus makes a decided turn in the allegory when He declares Himself to be "the Door." Entrance to the Church is by the person and work of Jesus. As the Eastern sheepfold has but one door, so the Church has none other than Christ. "There is none other name under heaven given among men." Through Him we come to salvation and spiritual sustenance (find pasture) and the more abundant life.

Again, there are shepherds and shepherds, but Jesus is pre-eminently the Shepherd. The evidence of this is His voluntary surrender of life and the reciprocal and perfect recognition subsisting between shepherd and sheep—analogue to that which maintains between Father and Son.

Finally, Jesus bursts the shell of Jewish sectarianism in the generous and courageous words, "Other sheep I have which are not in this fold." It was a hint of this kind which had led these sectarists, on a former occasion, to ask scornfully, "Will He go and teach the Gentiles?" Alas! how they did "dissolve the pearl of charity in the acid of sect." The "one Shepherd" exalts persons above institutions, when He says there shall be "one flock," not "one fold," as in the authorized version, which gives precisely the opposite sense. The reference is to the invisible church, made up of the faithful of every age and land.

The Teacher's Lantern.

The division of chapters is arbitrary, and, in this instance, unfortunate. One must look in the closing verses of the preceding chapter to find the circumstances which led to the speaking of this allegory. Jesus had said that He had come for judgment; that those who saw not might see, and those who saw might be made blind. The official pride of the leaders was touched by that saying. To parry his blow, they cried, "Are we blind also?" As if such a thing was impossible and even unthinkable. Jesus practically said, in response, "I will now hold up the mirror and show you what kind of shepherds you are." His merciful purpose was to awaken some of the best to self knowledge and healing.

Every one who enters the door (Christ) is saved and becomes in turn a minister of grace to others (a shepherd, not the Shepherd, as in Authorized Version). The pattern is Jesus. Every good shepherd lives for the flock.

He who, shunning the door, climbs up from some other quarter, by that very act reveals his dishonest character and unworthy purposes.

"To steal" and "to have life." The contrast is that of the false and the true religion. Phariseism and ecclesiasticism fleece and kill. They have always done so everywhere and by whatever name they have been known. But true religion always gives the present life a more abundant development. "Whatever form of religion tends to deprive mankind of its free, natural and joyous life is anti-Christian. The constant tendency of Christ's teaching and influence is to make the whole life—social, intellectual, moral, and spiritual—more abundant."

"Lay down life, take it again." The mother lays down her life in the birth and rearing of every child. She takes life again in the matured manhood or womanhood of her offspring. The analogy maintains in the suffering and sacrifice of Jesus. He voluntarily surrendered His life. No one took it. Now, with joy, He "sees His seed," His spiritual offspring, and prolongs His days in them, as the prophet said He would. (Isa. liii.)

"They understood not." How their worship of the letter had destroyed all commerce between their minds and



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New ideas

have been added to the old-time goodness of Simpson-Eddystone Prints. The same serviceable material that you have always known; and the latest artistic patterns. Distinctive dresses can be made from them for only a trifle more than the usual cost of ordinary calico.

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



DR. MILES' Anti-Pain Pills

P



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Cure Headache

Almost instantly, and leave no bad effects. They also relieve every other pain, Neuralgia, Rheumatic Pain, Sciatica, Backache, Stomach ache, Ague Pains, Pains from injury, Bearing-down pains, Indigestion, Dizziness, Nervousness and Sleeplessness.

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Pills

All Pain is Nerve Pain

Pain is sure to follow any strain or weakening influence upon the nerves. It may be caused by over-exertion, heat, intense mental effort, colds, indigestion, or any cause that depresses, excites or agitates the nerves. So sensitive are they that the least pressure or strain causes suffering. By soothing, strengthening and quieting the nerves, Dr. Miles' Anti-Pain Pills relieve the pain.

They are sold by druggists, 25c a box, under a guarantee that the first box will benefit, or money refunded. Never sold in bulk.

MILES MEDICAL CO., Elkhart, Ind.

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

"The Earth With a Fence Around It"

would be very unsatisfactory unless the fence was reliable, because it would require so much expense to keep it in repair. NINETEEN YEARS, no repairs excepting new posts, and still a good fence, is our record, and we are making Page Fences better now than ever before, using better wire, thicker galvanizing, larger cross-bars.

Page Woven Wire Fence Co., Box 7844, Adrian, Mich.



MORE BUTTER

with LESS WORK can be made with the Double Diamond "O. K." Churn than with any other. A child can run it. Buy direct from manufacturer and save dealer's profits. If you are not satisfied return in 30 days and get money back.

PRICES—CASH WITH ORDER

No. 6, 5 gallons, to churn 2 gallons,	\$3 50
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No. 9, 30 "	4 25

Challenge Churn Mfg. Co., Paw Paw, Mich.
Chicago Agency, 35 Randolph St., Chicago

THE STRONG ARM OF THE STATE WILL

KANSAS WILL PURCHASE THE BY-PRODUCTS FROM THIS REFINERY, WHICH NOW CONTROLS 1,870 ACRES OF OIL LAND, AND IS GROWING

Oil Properties Enough Now Owned and Controlled by the Uncle Sam Refinery to Furnish It for Fifty Years.

It would be just like building a first-class battleship and putting it in the middle of the Sahara desert as to build a refinery in Southern Kansas, or anywhere else, without sure production and proved oil lands to back it up. Practical men are at the head of the Uncle Sam Refinery—men who succeed. They are looking ahead for breakers—they know they have the strong arm of the State for protection, and they know they have in Kansas alone an everlasting market for all the oil they can refine, and they have now, as before stated, secured enough oil rights to insure them oil for the next half century. Now, if you want to join a company that is playing safe—one that will protect your interest, buy some of this stock before others secure what you want. It is only a few minutes' ride out to the properties from Cherryvale. Come down and see for yourself and talk matters over with the men here.

Financial Condition of the Uncle Sam Company.

The Uncle Sam Company owns oil rights worth, on conservative basis, free from debt, over \$40,000. Holds options worth \$20,000 more. Cash paid in and subscribed, which is gilt-edged, approximately \$42,000. Authorized capitalization (\$10,000,000) ten million. Stock now in the treasury, which will be sold for from 4 to 20 cents per share (8,000,000) eight million. The par value of the stock is \$1 per share. The stock is nonassessable and every share of stock draws just the same amount of dividends as any other share. No dividends will be paid on unissued stock. However, it is the plan of the management to sell every share of this stock in the next three months and place the proceeds in the building up of two other refineries and the securing of

additional oil lands. As before stated, there is no deadhead or promoter stock in this company. The managers are working for a reputation as well as money, and they are not the kind that are quitters. They mean just what they say and the man who does not invest and help this company on to victory because he is afraid he will not secure fair treatment spites himself more than any one else, for the company is a winner, and you will receive square treatment on every dollar entrusted to this company's care. The capitalization is about eight times as large as the ordinary company, but is all cash stock and the company will own one hundred times as much property and be strong enough to protect its interests.

Stock Should Go to at Least 50 Cents Per Share in the Next Four Months.

With a thousand-barrel refinery in operation, and with oil lands and oil wells that the Uncle Sam Company will control by that time, do you think you will be able to buy any of this stock under 50 cents per share. The men at the head of this company are practical business men. They are working tooth and nail for the grand success of this refinery. It will be built and in operation before some "don't know what to do people" will have made up their minds. Act now; strike while opportunity knocks at your door; secure some of this stock before it advances five or ten-fold, for you will not likely have a chance again to join a refinery company that has as many strong points as this company. Three hundred and ninety-eight dollars cash will buy ten thousand shares if check is sent at once.

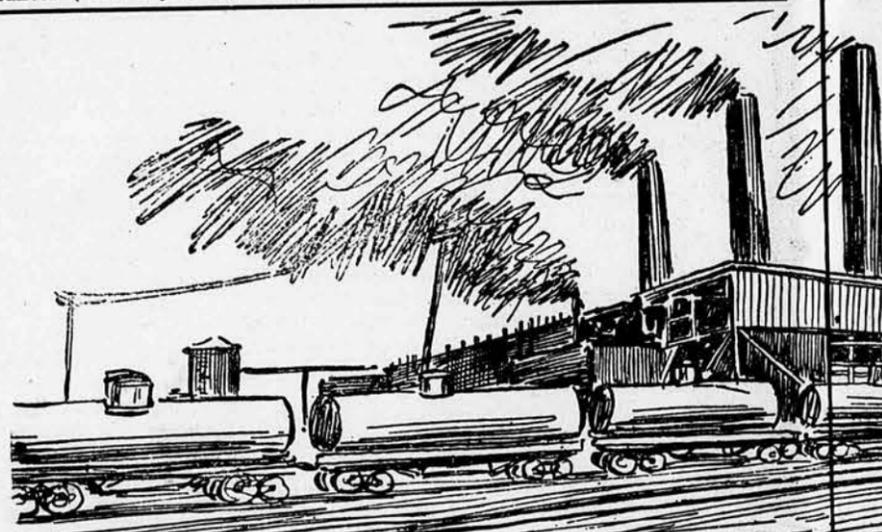
What Judge Rightmire Says.

To my friends, and especially those who have asked me to examine and report upon the Uncle Sam Refinery at Cherryvale, Kans., I have this to say: I came to Cherryvale on the evening of March 22, and went to the office of said

Refinery and Development Company and found bookkeeper present. Making myself known, and informing him of my mission, he placed the books of the company open for my inspection, and I found that the first subscription to stock in the Uncle Sam was received on February 25, 1905, that on March 22 subscriptions were received for 35,500 shares; that there have been received the following subscriptions for Uncle Sam stock: 16 for a block of 10,000 shares; 27 for a block of 5,000 shares; 44 for a block of 2,500 shares; 65 for a block of 2,000 shares; and 250 for a block of 1,000 shares, a total subscription of 780,000 shares in less than one month—26 days. Just as I had concluded my examination of the stock books, Mr. Ritchie, vice-president, and H. H. Tucker, secretary-treasurer, came into the office, accompanied by their superintendent, Mr. Samuel Hunter (formerly with The Pure Oil

Company of Philadelphia, Pa., the greatest independent refinery and rival of the Standard Oil Co. in Pennsylvania), and General Superintendent and Manager Hughes, of The Warren Boiler Works of Warren, Ohio, and in my presence the contract for the first installment of machinery (15 carloads) for the Uncle Sam Refinery was signed and payment on account made in a check for \$3,000, balance to be paid on delivery of machinery in Cherryvale, Kans.

This morning, March 23, I went out to the Refinery grounds, 20 acres adjoining the A. T. & S. F. R. R., one-half mile west of the depot, and there found the barrel-house and temporary office completed and brick being delivered for main buildings of Refinery. From this Refinery plat I drove over the 432 acre lease the Refinery Company owns, and saw 13 first-class A-1 oil wells in operation, hooked up in connection with large power



Proposed Uncle Sam Refinery now under construction at

THE POTATO.

Continued from page 337.)

farmer secured almost 10,000 pounds of starch per acre, probably one of the largest yields of carbohydrates ever obtained from an acre of land."

This book is the work of an enthusiast who is also a scientist, and is a collection of facts gathered from many sources, the value of which is verified by experience in growing potatoes commercially and experimentally on two continents. Farmers, gardeners, and those growing potatoes on a large scale will find it interesting and profitable reading.

Published by Orange Judd Co., Chicago.

ANNUAL STOCK-JUDGING AT THE AGRICULTURAL COLLEGE.

The third annual stock-judging contest, under the direction of the Agricultural Association, was held on Monday, March 20, 1905.

Each contestant was required to pass judgment on three classes of horses, three of cattle, three of swine and three of sheep. There were seventy entries in the contest.

The prizes were eleven in number and were awarded to the first eleven who were considered by the judges as the best student judges. The prizes consisted of a medal and ten hogs, which were donated by prominent hog-breeders, throughout the State.

The judges who passed judgment on the animals were H. W. Avery, of Wakefield, Col. L. R. Brady, of Manhattan, and John Warner, of Manhattan.

In the evening Mr. Avery and Assistant Shoemith addressed the students of the agricultural association.

The results of the contest and the donors of the prizes, arranged in order as awarded, are as follows:

R. R. Birch, medal, donated by Zenner Disinfectant Co.

F. L. Williams, Berkshire hog donated by C. A. Stannard.

G. O. Kramer, Yorkshire hog donated by Kansas State Agricultural College.

R. W. Hull, Berkshire hog donated by E. M. Groves.

A. C. Plake, Poland-China hog donated by A. Munger.

Clarence Lambert, Duroc hog donated by J. W. Davis.

M. D. Snodgrass, O. I. C. hog donated by H. A. Nutting.

J. S. Montgomery, Duroc hog donated by Mrs. Henry Shrader.

J. R. Garver, Tamworth hog donated by C. W. Frelove.

H. A. Ireland, Berkshire hog donated by E. D. King.

C. C. Creighton, O. I. C. hog donated by Avery Bros.

The contest was directed by Assistant Kinzer and students L. J. Munger and F. W. Wilson.

BLOCKS OF TWO.

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

Special to Our Old Subscribers Only.

Any of our old subscribers who will send us two NEW SUBSCRIPTIONS at the introductory rate of fifty cents each, will receive any one of the following publication as the old subscriber may choose, viz., "Woman's Magazine," "Western Swine Breeder,"

"Vick's Family Magazine," "Blooded Stock," "Poultry Gazette," "Dairy and Creamery," or "Wool Markets and Sheep."

This Is How It Works.

In renewing his subscription an old subscriber writes:

Mr. Coleman came along and admired a piece of alfalfa I have. I told him I learned how to raise it from reading the KANSAS FARMER. I send one dollar for Mr. C.'s subscription and for my renewal. Respectfully,
March 27, 1905. GEO. FETROW.

He who robs his brother, if he were clever enough would rob God; he who oppresses his brother would subvert the throne of Heaven, if he were only strong enough; he who dishonors or pains his brother would not hesitate to wrong Deity, if there were any door of escape. God does not test us by our ecclesiastical life, but by our social, human life.—William L. Watkinson.

Miscellany

State Socialism's Progress.

EDITOR KANSAS FARMER:—You ask for my views on "State Socialism." Before making answer, let me inquire what is meant by that expression in a recent editorial where you say "the imperfect historical precedents are against it?"

You can not refer to the program of the Socialist party, viz., "Government ownership of all the means of production and distribution," because that has never been tried and has no "historical precedents," for or against.

You can not mean any of the volunteer attempts to enlist everybody's efforts in everybody's behalf like that of Brook Farm or those advocated by Owen or Fourier, because they lacked

the very thing required to make them go, that is, the authority and machinery of the "State."

Neither the International nor the Century dictionaries define State Socialism. Possibly it stands for different things in different minds. To me it means the efforts of any of the legally organized units of society, large or small, acting through their constituted methods of administration and taxation to supply their wants or minister to their health, comfort, safety, pleasure, convenience, welfare, defense, or improvement. It is State Socialism just the same whether it is the Government irrigating its arid lands, or the State of Kansas making a refuge for its citizens against oil and twine bandits, or the village of Edwardsville taxing all its property to give all its children an equal educational opportunity.

I regard public schools, public libraries, public parks, public water-works, public bath-houses, public laundries, public lighting plants, public twine factories, public oil-works, public abattoirs, public gardens, the ministering by the community to any need or advantage of the community, as coming under the head of State Socialism. It is a mere incident, whether such a public institution be maintained by a tax on property, as a public park; or by a tax (price) on the output, as a twine plant.

By way of showing the tremendous advance the world is making in this direction, I will say that my recollection goes back to a time of much indignation over the "outrage" upon vested rights when property was first compelled to bear the entire burden of educating the children. This generation does not appreciate that the public school as we have it is a comparatively recent introduction, neither can it well understand that the opposition to schools at the public expense was once fiercer than the opposition now to oil-refineries at the public ex-

ALL PROTECT THE UNCLE SAM REFINERY

IS GROWING STRONGER EVERY HOUR. 4-CENT REFINERY STOCK IS THE GREATEST INVESTMENT EVER OFFERED IN CENTRAL WEST

er house and tanks, and saw one rig at work sinking new wells, and from my knowledge of oil lands, after a careful estimate of the present development of this lease and its future possibilities, appraised this lease to be of a minimum value of one hundred thousand dollars. That my readers may know that I have not placed a fictitious value on this lease will say that I was present when, two weeks ago, on 80 acre lease with 3 wells on it was sold at Sedan for \$35,000 cash. By this sale you will see that I have placed a very conservative estimate upon the value of this lease of the Uncle Sam Company. While less than one-half mile north of the Refinery ground is the large stream called Drum Creek, almost a river, which it would be called further north, a stream of pure living water, with supply large enough to furnish water for ten refinery plants for use and fire protection.

Four miles northwest upon the very edge of the Neodesha Pool, it holds another lease upon 280 acres of land, that could be sold undeveloped for \$10,000.

With the property that the company now has in possession, and the machinery now purchased, its betterments are easily worth at the very least (\$125,000) one hundred and twenty-five thousand dollars, and with its Refinery completed and in operation within 90 days, under the conservative management of Mr. Ritchie and Mr. Tucker, of whom the president of the Montgomery County Bank of Cherryvale, said to me this morning, "I do not believe that two more honest men ever lived than Ritchie and Tucker." The Uncle Sam Refinery Company of Cherryvale will prove an unbounded success, and will repay more than one hundred fold to those who invest in its stock at 4 cents a share within two years.

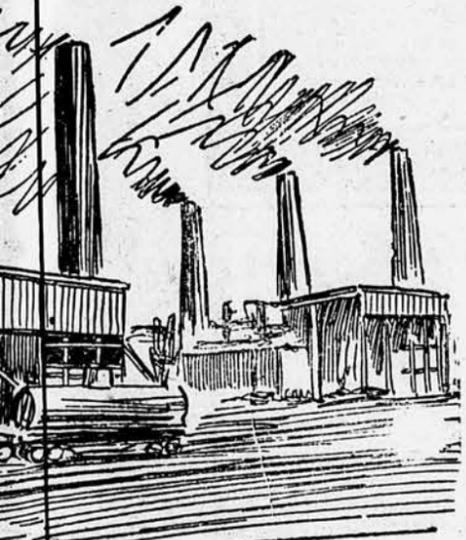
Readers of the Kansas Farmer will remember my write-up of The Publishers' Oil & Gas Company in the February 5,

1905, number, under the management of these gentlemen and my prediction that the stock would be worth 60 cents a share within 60 days. Well—the Publishers' stock is all sold, not a share of stock can be had of the company, and it has received its second dividend, and in a very short time will be at a high premium over par value. Should any reader or would-be investor doubt any of the above statements or think they are overdrawn, or too richly painted, to such I would say, Go to Cherryvale. Call at the Uncle Sam office, examine the books as I did, go out to Refinery grounds, and over the oil leased lands adjoining it and examine the oil-wells, tanks, power-house and water supply as I did, and you will have to say to yourself, "Rightmire was too conservative, and all of his estimates are very much too low to do full justice to the holdings and actual value, at present, to say nothing of the future value when fully developed of the property of the Uncle Sam Refinery Company."

W. F. RIGHTMIRE.

Warning to Shareholders.

Certain so-called brokers (perhaps managers of bucket-shops), when the Publishers' stock was on the market, wrote to the managers and tried to get stock at reduced prices, so they could make a commission on its sale, but all were refused, and now since the Publishers' stock has become one bearing dividends they are more than anxious to secure some of the same, and are sending out circular letters, claiming the company was over-capitalized, mismanagement on the part of its officers, and offering 5 to 10 cents per share, to try and frighten the owners so they will sacrifice their holdings, and they are sending this kind of letters to every stockholder whose name they can learn. Do as you like, sell them your stock if you do not want to hold it until it is at a premium before 1906. Subscribers to Uncle Sam Refinery stock are also warned for many different firms of these vermin have generously offered to sell Uncle Sam Refinery stock on commission.



Refinery at Cherryvale.

IN CONCLUSION WILL STATE

A little over a year ago the same management who now ask you to join them in what they know is a worthy cause, and also a money maker, organized an oil company at Cherryvale, Kans. A whole lot of people laughed at them, but in one year that stock went from 4 cents to 30 cents, good and solid, and was taken off the market, and you can not buy out a single one of the management to-day even at \$1.25 per share. These men are stayers; they are not trying to entice any one into a trap to make a failure and beat them out of your money, nor are we looking for some excuse to fail. The oil company we promoted a year ago to-day has (48) forty-eight producing wells, and work is now commenced on 49, 50, and 51. This company is now paying dividends. It paid a half cent per share on the 20th of January; it will pay another of one-fourth per cent this month, and maybe better. This company was the Publishers. The chances against this Publishers' Company on the start a year ago were 100 to 1, but it just went up a notch at a time. It kept going and is still going. The same men who will raise the money to make the Uncle Sam Company one of the greatest in the world have seen the color of a dollar before, close to one hundred thousand dollars (\$100,000) have gone through their hands. They are not puffed up over their success, but are plodding away now to accomplish greater success. Their reputations, which they value, and their property will back the Uncle Sam Company straight through. If you go with us we will guarantee you a square deal. Our homes are in Cherryvale, and we do not ask you to follow any pipe dreams or to buy any blue sky. We know we have a practical proposition, one that will succeed. Publishers' stock gained ten-fold solid in a year, and was taken off the market. Even greater success can be depended on in the Uncle Sam Company. We have over 120 unanswered letters on our desk. We will answer them as quick as we can, but we have tried to make this ad plain, and mean just what we say. Remit or write or wire for further particulars. Address,

H. H. TUCKER, Jr., Secretary, Cherryvale, Kansas

pense. But schools and refineries, as public institutions, have the same justification: they are defensible if they serve the public welfare; if not, they are marauding expeditions into the public purse.

The whole country is going for the public ownership of public things. Kansas City took over its water-works a few years ago. Topeka has just taken the same step. The pending election in Chicago turns entirely on the public ownership of the street railways. The Outlook (March 11) names two towns in Canada that own and operate their water-works, electric lighting, telephone and street railway systems—and they like it. Are not such things State Socialism, or akin to it? Would it grow that way, if the weight of the "historical precedents" were against it?

Wherever it has failed (and there have been failures though inconspicuous compared with the successes) the explanation has been, in a word—politics. But this condition is improving. The professional politician is losing ground. His machine skips more than it cuts. Civil service reform is growing. Public attention has taken hold of the close alliance between the machine politicians and corporations. They hunt in pairs. Their quarry is the public.

State Socialism may well rest its case on its economic advantages; but a stronger claim for it is that it will put at least a portion of the corporations out of politics, by ending them, and put their henchmen out of city councils, and Legislatures, and Congress and the courts.

The corporation has shown what can be done by association and organization. It is a greater force than steam or electricity. We shall not return to individual strife and the inefficiency of disorganized effort. But we must come at the fruits of organization by some other route than corporationism. There is but one other route and it

runs directly through the management and control of the "State." Corporationism so facilitates piracy in business, fosters crime, breeds civic corruption, and lends itself to the abuse of power that it is a menace to the Republic.

State Socialism is an effort to extend to all the people, by means of the authority and machinery of the State, the advantages of organization, that now, under corporationism, go to a few people.

Corporations should be classified in law as "monsters," instead of "legal persons." The bigger the monster, the more dangerous.

Let the State assume the functions of all the monsters it can supplant with advantage to the people as a whole. The remaining monsters it should "dehorn."

There is no safety for a Democracy, especially, where creatures so powerful and so vicious as the Standard Oil are allowed at large. When one reads of the conspiracy between it and the oil-carrying railroads to ruin the business of some of our fellow citizens, one is surprised at the self-restraint of the victims. EDWIN TAYLOR.

Wyandotte County.

The Kansas State Dairy Association at Salina.

The eighteenth annual meeting of the Kansas State Dairy Association will be held at Salina, beginning on the evening of Wednesday, April 5, and continuing two days. This meeting promises to be the most interesting and profitable that has ever been held by this association. An especially strong program has been prepared, which will furnish food for thought to all classes of citizens, as well as practical information for those strictly engaged in the dairy business.

Hon. A. J. Glover, associate editor of Hoard's Dairyman, Fort Atkinson, Wis., will be present and deliver one of his matchless addresses. Prof. F.

L. Haecker, the best-known dairy expert in the country, will come from St. Anthony Park, Minn., to participate in the meeting. Mr. C. F. Stone, Peabody, Kans., who won more prizes at the World's Fair with his Holstein cattle than any other Kansas exhibitor, will discuss the dairy cow and her management. Prof. A. M. TenEyck, of the Kansas Agricultural College, will give an address on grasses, which alone will be worth the trouble and expense of attendance. Mr. C. H. Smalley, secretary of the Missouri State Dairy Association, will discuss the profitable marketing of dairy products. Mr. David G. Page, of Topeka, will present the helpful hog. Prof. Oscar Erf, of the Kansas Agricultural College, will give the results of experiments now being made at that institution, and will act as expert judge in the butter contest. Mr. H. B. Cowles, of Topeka, a practical dairyman, will discuss silos and ensilage as the results of his everyday experience. Col. J. W. Robison, Eldorado, president of the State Board of Agriculture and the largest alfalfa-grower in Kansas, will present the merits of alfalfa for the dairy. Prof. E. D. Cowgill, editor of the KANSAS FARMER, will deliver a lecture on modern conveniences in the farm home. Prof. Henrietta Calvin, of the State Agricultural College, will give an evening lecture of special value to the ladies. Mr. E. W. Curtis, of Kansas City, who has been a life-long dairyman and who was formerly instructor in dairying at the State Agricultural College of Kansas, will give some practical hints for dairymen. Hon. D. B. Long, of Ellsworth, who established the first dairy in Western Kansas in 1868, will give his experiences as a dairyman in Western Kan-

sas. Wilkie Blair, Girard, whose herd of Red Polled cattle stood second in the World's Fair Cattle Show, will discuss the farmer's cow. Mr. Chas. L. McClung, city engineer of Kansas City, Kans., will give a lecture on good roads and other large interests, with give the prose and poetry of dairying.

There will be the usual butter contest for both creamery and dairy butter classes, and the annual competition for the creamerymen's silver cup. Cash prizes will be offered for all other classes. The Commercial Club of Salina, has made every provision for the comfort and convenience of the visiting dairymen and will provide a large hall for their meeting place, and for the exhibition of hand separators and other dairy appliances. Music will be furnished by the Salina Orchestra and chorus for the evening sessions.

It is hoped and expected that this meeting will prove a great revival in the cause of dairying in Kansas. This State has proved herself to be one of the best dairy States in the Union, and the income now received from the the dairy cow by our farmers amounts to nearly \$8,000,000 per year as shown by the reports of the Kansas State Board of Agriculture.

You are earnestly invited to be present at least for one session and urge your neighbors to be on hand and participate in this great meeting. Programs will be mailed to those requesting them of Secretary T. A. Borman, Topeka, or Treasurer I. D. Graham, Topeka. Ask for special rates or secure certificate when purchasing railroad tickets.

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it should be measured from the top to the bottom.

In measuring liquids in a glass tube, a true reading is obtained by measuring from the bottom of the column to the bottom of the meniscus at the top of the column.

The accuracy of the glassware used in the Babcock test is very important. Usually the dealers guarantee their glassware to be accurate, and there is at the present time little danger of error from this source.

If a pair of accurate druggist balances are available the test-bottles may be tested by filling them up to the zero mark with pure rain-water, preferably distilled water, then balance the bottle, and add enough water to fill the neck of the bottle to the last calibration.

Another method of testing the accuracy of test-bottles is to thoroughly clean and dry them and weigh out 13.59 grams of mercury for every 5 per cent represented in the neck of the bottle and pour into the bottle. Take a piece of dry corn-stalk somewhat larger than the opening into the neck of the bottle, carefully peel off the outer hard coating, leaving the soft pith as round as possible.

Pipettes can be tested by a comparative test of the same sample of milk with a pipette and bottle of known accuracy. They can also be tested by weighing the amount of water they hold, allowing one gram for every 5 per cent represented in the pipette.

The temperature of the milk influences the action of the acid. In a test made at this station, it was found that with milk ranging from 55° to 60° F. the butter-fat was nearly white, and the reading was from 0.1 to 0.2 lower than the same milk tester at a higher temperature.

As butter-fat is found in milk in the form of drops (not solution, like sugar,) it is important that the milk should be thoroughly stirred before sampling. This is best done by pouring the milk from one vessel to another two or three times, and where the cream has risen for any length of time it may be necessary to increase the number of pourings.

Importance of Keeping Bottles Hot in Hand Testers.—If the testing is

done with a hand tester, it is very important that the bottles containing the mixture of acid and milk be kept hot; otherwise there will not be a complete separation of the fat. The following test (Table XXX) of ten different samples of milk in a room where the temperature was between 64° and 70° shows the possible variation. The water used in filling these bottles was 170° F.:

TABLE XXX.—Testing Milk in Hand Testers, With and Without Hot Water.

Sample	Test without hot water.	Test with hot water.	Difference.
No. 1	3.5	3.6	0.10
No. 2	4.3	4.6	.30
No. 3	4.15	4.4	.25
No. 4	5.25	4.4	.15
No. 5	3.7	3.75	.05
No. 6	4.3	4.6	.30
No. 7	4.15	4.35	.20
No. 8	3.0	3.25	.25
No. 9	2.95	3.1	.15
No. 10	3.45	3.7	.25
Average			.20

Besides the average variation of 0.2 of 1 per cent, it was found that the tests made without hot water had considerable froth at the top of the fat column, which interfered greatly with correct reading. In steam-turbine testers the steam keeps the bottles sufficiently warm, and sometimes too warm, in which case the bottles should be allowed to cool to about 140° F. before the reading is made.

(To be continued.)

The Care of Live Stock.

Live-stock men all know the necessity of keeping their animals in a perfectly healthy condition. And yet this is not so easy to do. No matter how hard the stock-raiser tries, his cattle or his sheep sometimes become infected with disease in spite of him.

We know of no more effective method of insuring live stock against these diseases than the use of Car-Sul, the disinfectant dip manufactured by the Moore Chemical and Manufacturing Co., of Kansas City, Mo. Car-Sul is sure death to lice, mites, and other vermin, and a certain cure for all skin and infectious diseases, and at the same time is absolutely harmless to the stock, leaving the skin soft and the hair glossy. It is also good for sores, cuts, and harness galls.

By Anointing With Oil Cancer of Lip and Mouth Cured.

Grand Meadows, Minn., May 31, 1904. Dr. D. M. Bye Co., Indianapolis, Ind. Gentlemen:—I wrote you some time ago that my mouth was well, and now it is filled with new teeth. Should I need more help would call on you, as I have full confidence in your treatment for such diseases. I feel grateful for the cure. The balmy oil is a great blessing in many ways. Am quite well for one of my age, 89. With thanks. MRS. H. M. WILSIE.

Plenty of Opportunity and Successful.

McLaughlin Ranch, Water Valley, Tex., February 6, 1904. The Lawrence-Williams Co., Cleveland, O. I have used several bottles of your GOMBAULTS' CAUSTIC BALSAM for various ailments, such as strains, fistula, enlargements, etc., with satisfactory results. Our home stock numbers about 250, so we have plenty of opportunities to try it. STANLEY TURNER.

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By W. J. SPILLMAN Agrostologist, U. S. Department of Agriculture

An intensely practical discussion of the farm grasses of the United States of America is presented in this volume. It is essentially a resume of the experience of American farmers with grasses, and it is safe to say that no other work has covered the ground so thoroughly. No attempt has been made to give a connected account of all the grasses known in this country, but the aim has been rather to give just the information which a farmer wants about all those grasses that have an actual standing on American farms.

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SILVER WYANDOTTES—Winners of the blue at Kansas State Fair, 1904. Won 1st pen fowls, and 1st and 2d pen chicks. Kansas State Show, 1905, 1st and 2d pullets, 5th cockerel, 3d pen in hot competition. Eggs, \$2 per 15; \$5 per 45, expressage prepaid anywhere in United States. Several fine cockerels for sale. W. R. Comstock, Topeka, Kans.

100-EGGS size Sure Hatch Incubator; new, used one season, good condition; price, \$9. E. W. Caywood, Clifton, Kans.

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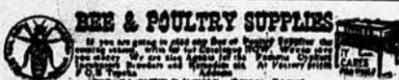
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Are Your Hens too Fat?

At this time of year come complaints of infertile eggs. The main cause of this is that the hens are too fat. Hens that have been highly fed are usually too fat to lay, even, and when they do lay the eggs will not hatch until the fat has been reduced to quite an extent. Their combs may be bright and red and they may appear thrifty, but when they are very fat the owner may wait quite a while before he will get many eggs from them. There is but one course to pursue, and that is to cut off the supply of food until the hens are willing to work. A hen that is fat will not starve until the stores of fat on her body are utilized, as this reserve of warmth is just so much carbonaceous food in the form of fat.

Begin by giving no food at all. For a day or two the hens will insist on being supplied with their usual rations, but don't worry—they won't die. At the end of two days scatter a pint of millet or rape seed in the litter. Hunger will induce them to go to work and scratch for the small seeds. Withhold the heavy feeding for a week or ten days, until they have perceptibly lost flesh. They will by that time have concluded that they must work for their living, and being fed judiciously, they will begin to lay and continue to do so, if properly cared for. The eggs will then be fertile and you will have no more trouble with eggs not hatching.

Cockerels Question.

Will some one please tell me if cockerels are of any use to a flock of chickens after the period of incubation has past? Does a flock of hens lay just as well without cockerels as with them? Some one please answer that knows. H. M. CAMPBELL, Stafford County.

Answer.—The cockerel is of no use to a flock of chickens after the period of incubation. In fact, the hens do much better without him and will lay just as many eggs as when with him. The eggs, also, will keep much better when not fertilized. Incubation in a fertilized egg commences a few hours after it is subject to a heat of 100°. It is this that causes so many bad eggs. The eggs are left in a nest all day, hen after hen goes there to lay, and they create so much heat that the eggs begin to incubate. The eggs are then taken out and placed in a cooler place, the embryo just started dies and commences to decay and the consequence is a bad egg. The remedy is to gather your eggs several times a day, or if you don't wish them for hatching purposes, keep all males away from the hens.

Standard Rhode Island Reds.

Will you kindly publish the Standard of Perfection of the Rhode Island Reds in the KANSAS FARMER? Harper County. T. A. BAMBER. Answer.—The Standard of Perfection is a copyrighted book and it would be a violation of law to publish any part of it. Sorry we can not acceded to your request.

Poultry Notes.

Eggs intended for hatching purposes, that cannot be used at once, should be turned every day, and kept in a cool place. A cool, airy cellar is a good place, but beware of a damp, musty one.

Charcoal is a valuable feed for hens, having a cleansing influence on the system. It is good at all seasons of the year. If placed where they can get at it and have what they want, they will eat large quantities of it. The results will more than pay for all the trouble and cost.

Eggs are flavored to a certain extent by the food which the fowls eat. This is shown by feeding them onions, which sometimes taint eggs so

much that they are unpalatable. To have eggs of a fine flavor the hens must have clean food. Those allowed to feed on putrid meats and decayed vegetable substances will lay eggs unfit to eat.

Lettuce is an excellent food for young ducks. Usually there is more in the garden than the family uses. If not, sow a little more so the chicks can have all they can eat of it. It can be fed with profit.

Milk, sweet or sour, thickened with middlings until it is crumbly, is a first-class food for laying hens, and half middlings and half cornmeal is one of the best foods for any kind of young poultry.

On a farm of moderate size, where the conveniences for housing and protecting poultry are few, a flock of eighty or a hundred hens add two or three dollars regularly every week to the cash resources, besides furnishing a very important item of the family diet. This is a help not to be despised.

In selecting the breeding turkeys let the hens be large, with good breasts and backs, then mate them with a good tom that is of good form, compactly and strongly built and at least two years old. Do not select the male for size alone, as more depends on the female than the male where size is concerned.

Meat, or ground green bones, and green stuff are necessary for the production of fertile eggs; don't overfeed on meat, but give all the green feed the birds will eat. If you cannot furnish cut green bone, buy a quantity of ground meat from the butcher and mix it with the mash.

The last thing the little chick does before leaving the shell is to draw into its body the yolk of the egg, from the white of which the body of the chick has been developed. Full and plump as it is when it comes from the shell it will not require any food for several hours. Thirty-six hours is not too long for it to go before commencing to feed it. In that time it has learned to use its legs and is much more active than at first and will readily pick up food supplied to it. One of the best foods to be given at this time is stale bread soaked in milk until soft, then squeezed dry. Oatmeal or ground oats fed dry are also good. Millet-seed scattered in cut straw is good for them to exercise in. The feeding of hard-boiled eggs to young chicks is not considered good for them.

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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.

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Trees are valuable from whatever standpoint. Railroads taking planted lands often pay from \$30 to \$300 each for trees occupying the same and there have been instances where \$600 in cash was paid for trees standing upon condemned property. It pays to plant trees—all kinds of trees—fruit, shade, and ornamental, and when laying out parks, public and private grounds, windbreaks for farm, shelters and belts for landscape effects, there is one indispensable class, namely the evergreens. They include some of the most useful and beautiful specimens known to horticulture—several varieties are valuable for reclaiming waste lands and some of them will thrive while less hardy trees can not live.

At Dundee, Ill., is the nursery of D. Hill, the evergreen specialist. For more than forty-two years Mr. Hill has turned his attention to this branch of horticulture, and in his Dundee Nursery will be found all the practical varieties of these beautiful trees. His catalogue and bargain sheet will be forwarded free to any one requesting the same. Address D. Hill, Evergreen Specialist, Dundee, Ill.

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WHITE WYANDOTTES—Eggs for hatching from choice matings, \$1 per 15; \$4 per 100. S. W. Artz, Larned, Kans.

EGGS FOR SALE—From high-scoring stock. Toulouse geese, 20 cents each. Mammoth Pekin ducks, \$1 per 11. Barred Rocks, "Bradley strain," \$1 per 13. White Wyandottes, \$1 per 13. C. S. Moyer, Nortonville, Kans.

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Barred Plymouth Rocks Large, farm-raised. Good winter layers. Eggs, 15 for \$1; 45 for \$2. Selected and carefully packed. A. F. HUSE, Manhattan, Kans.

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A few choice breeding cockerels for sale. Eggs from two high-scoring pens. Headed by prize-winners, \$1.50 per 15. Good hatch guaranteed. R. C. MARCH, 1313 W. Sixth, Topeka, Kans.

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EXCLUSIVELY. "Superior Winter Laying Strain," noted for size and quality. Sixteen years' careful breeding. Eggs, 15 for \$1; 30 for \$1.50. E. J. Evans, Box 21, Fort Scott, Kans.

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White ones, pure-bred, and good layers. Eggs in season. ALVIN LONG, - - - Lyons, Kans.

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A few extra nice cockerels for sale. Pure-bred and only \$1 each. R. J. CONNEWAY, - Elk City, Kans.

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FILL YOUR INCUBATOR with eggs of my utility and beauty strains. Barred and Buff Plymouth Rocks, White Wyandottes, S. C. Black Minorcas, S. C. White and Brown Leghorns. Fresh eggs, carefully packed, \$5 per 100; \$3 per 50; \$1.50 per 15. James C. Jones, Leavenworth, Kans.

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EGGS FOR SALE—S. C. W. Leghorns, W. Wyandottes; \$1 per 15. W. H. turkeys, \$1.50 per 9. Emden geese, 20c each. W. African guineas, \$1 per 17. All guaranteed pure-bred. A. F. Hutley, Route 2, Maple Hill, Kans.

SILVER WYANDOTTES FOR SALE—Eggs from gold medal winners, 15, \$3; 30, \$5. Silvers, farm-range, 100, \$4. Mrs. J. W. Gause, Emporia, Kans.

S. C. BROWN LEGHORN EGGS—By the 100, for incubator purposes, \$5. H. C. Short, Leavenworth, Kans.

RHODE ISLAND REDS—A hardy, early maturing, general-purpose fowl; original stock from the east. Eggs, per 15, \$1.25; 30, \$2. Mrs. G. F. Kellerman, Vinewood Farm, Mound City, Kans.

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Eggs from high-scoring exhibition stock, packed carefully, \$1.50 per 15; \$2.50 per 30. Birds have farm range, and I keep no other breed. Mrs. Geo. Clark, Station A, Topeka, Kans

..Special Half-Price Sale..

commencing early in April I shall begin to fill all orders for eggs at half price, 13 for \$1; 28 for \$1.50. Black Langshans bred from high-scoring prize-winners, scoring as high as 94%. Barred Rocks of the choicest variety. R. C. B. Leghorns and Buff Cochins as good as the best. Rouen, Muscovy, Indian Runner and Edgewood ducks (black and white), 11 to a sitting at same price, except Muscovy which are \$1.50. Some fine Buff Cochins, R. C. B. Leghorn and Black Langshan male birds from \$1 up; also drakes. EDGEWOOD POULTRY YARDS, Winfield, Kans.

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A complete food for newly hatched chicks, the best and cheapest in the West. Alfalfa stock food. Alfalfa mash egg food. Poultry supplies. Send for circular.

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The Apiary

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

Bees that Died in Winter.

EDITOR KANSAS FARMER:—I had several hives of bees freeze out the past winter and the hives are full of brood comb. A great many bees crawled into the cells in the comb and died there. Can I use these hives of comb by putting bees in them again in this condition? Will the new swarms clean up the comb and remove the dead bees from it? Being a subscriber to the KANSAS FARMER, I take the liberty to ask for this information, which will be thankfully received. F. ECKERT, Shawnee County.

Yes, the bees will clean up the comb without any assistance from you. A good many people try to clean such comb by picking out the dead bees, but in doing this they injure the comb. Carefully shake out all the dead bees you can and let the rest remain. A new swarm of bees hived on such comb will clean it perfectly in a few minutes. Put the comb away carefully until needed, and watch a little for moths getting into it, and if you see any signs of moths, fumigate with burning sulfur. Moths seldom do much hurt in so short time as from now until the spring; but if the comb is kept over until another year, you must expect moths to get into it.

I have known of many instances where comb was thrown away because the owner concluded it was useless because of being thus filled with dead bees, and no doubt this is done yet. This information, coming just at this time when so many are in the same fix, is of importance, and we trust it may reach many such cases.

Spring Management of Bees.

Examine every colony of bees now if you have not already done so. A little attention now will save many colonies that would otherwise be lost. A prosperous colony must have both food and a good queen. Do not allow a colony to run below fifteen or twenty pounds of honey at any time between this and the beginning of the honey harvest. You can now feed syrup to the bees, and feed them about every evening. Feed late in the evening so that they will have the nighttime to store the honey away. This prevents robbing, for to feed in the daytime incites trouble among them. There is no harm in feeding heavily until you have a reserve store of 20 pounds in the comb. You can still advance the welfare of a colony by feeding to stimulate brood-rearing even if they have plenty of stores in the comb. To do this, you must do so at regular intervals, say every evening, or every other evening. Feed a small amount of syrup, less than half a pint.

Every good colony should have about this time some brood in their comb if they have a good, fertile queen. The presence of brood is evidence that the queen is all right and no further search may be made for her. If no brood is found now, it is evident that the queen is missing, or if she is present that she is defective in some way. Feed a little for a few days and if she does not begin to lay you may conclude she is wrong. Do not let queenless colonies remain in this condition long, for it is a sure bait for robbers, and if they once get started robbing they may destroy some of your good colonies by their persistent efforts to thieve. Unite such colonies with others having queens, or procure queens for them. If they are very weak, unite them, and if strong it will pay to secure queens for them.

Only the Golden Rule of Christ can bring the Golden Age of Man.—Frances E. Willard.

"No one is more injured by wrongdoing than the wrong-doer."

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Boston and New York winners. In three Kansas Shows this season won every first and second ribbon competed for. Stock with and without score-cards. Eggs, \$1 per 13; \$6 per 100. Send for circular. Fifteen hundred eggs sold for hatching last year. CHAS. C. SMITH, Lincoln, Kans.

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- Buff Orpingtons.
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All high-class stock of the best strains. For prices on larger or smaller lots write,

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

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Embrace nine original and distinct improvements not found in other machines—increasing their money-producing powers, making them simpler and easier to manage and insuring success to all users. Are all described in our new, free catalogue. Write for it. Geo. H. Lee Co., Box 41, Omaha, Neb.

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and almanac for 1905, contains 984 pages, with many fine colored plates of fowls true to life. It tells all about chickens, their care, diseases and remedies. All about INCUBATORS and how to operate them. All about poultry houses and how to build them. It's really an encyclopedia of chicken-dom. You need it. Price only 15c.

C. O. SHOEMAKER, Box 905, FREEPORT, ILL.

\$7.00 Buys the Best 120-EGG INCUBATOR

freight prepaid, ever made.

Double cases all over; best copper tank; hot water; self-regulating. Best 100 chick hot water Brooder \$4.50. Incubator and Brooder ordered together \$11.00. Satisfaction guaranteed. Our book, "Hatching Facts" tells all about them. Mailed free. Write today.

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The simple, sure, dependable kind. Used by thousands of successful poultrymen and women. Our free Incubator Book tells about them—tells how to make poultry pay. 23 years experience. Don't buy until you read it. Write for it. Warshouse, Buffalo, Kansas City, St. Paul. Address Racine Hatcher Co., Box 88, Racine, Wis.

OLD TRUSTY

In First Rank the First Year.

Incubator Johnson's 12 years making 50,000 other incubators put it there.

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BEE SUPPLIES

Now is the time to buy your Bee and Poultry supplies, large stock, lowest prices. We are Western agents for the Cyphers Incubator Brooders, etc., at factory prices. Write to-day for catalogue.

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POULTRY SUPPLIES

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JUST ISSUED POULTRY FEEDING AND FATTENING

A handbook for poultry keepers on the standard and improved methods of feeding and marketing all kinds of poultry. The subject of feeding and fattening poultry is prepared largely from the side of the best practice and experience here and abroad, although the underlying science of feeding is explained as fully as needful. The subject covers all branches, including chickens, broilers, capons, turkeys and waterfowl; how to feed under various conditions and for different purposes. The whole subject of capons and caponing 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

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Kansas Farmer Company Topeka, Kansas

Convulsion, Fits, then Epilepsy.

Dr. Miles' Restorative Nerve has been so successful in curing these brain-wrecking diseases that there is every reason to believe that even the most hopeless cases can be benefited, if not fully restored. We will be pleased to refer any one thus afflicted to many who now enjoy the blessing of health, after years of hopeless suffering.

"I have a son that had brain fever when two years old, followed by fits of the worst type, and he was pronounced incurable. I spent hundreds of dollars for him, without relief. After about fifteen years he became so bad that we sent him to Longcliff hospital for the insane, at Logansport, Ind. He was there nearly three years, but he continued to grow worse, so we brought him home July 30, 1902, in an awful condition. He had lost his mind almost entirely. He hardly knew one of the family; could not even find his bed; was a total wreck. He had from 5 to 10 fits a day. We were urged to try Dr. Miles' Nerve, and before the first bottle was used, we could see a change for the better. We have given it to him ever since, and he has had but two very light spells since last August, 1903, and then he was not well other ways. We pronounce him cured, as he can work and go anywhere. If any one wishes to ask any questions concerning this, they are at liberty to do so."

E. H. BUNNELL, Lincoln, Ind. Dr. Miles' Nerve is sold by your druggist, who will guarantee that the first bottle will benefit. If it fails, he will refund your money. Miles Medical Co., Elkhart, Ind

CANCER

Cured to stay cured. My TRUE METHOD kills the deadly germ which causes Cancer. No knife! No pain! Longest established, most reliable cancer specialist. 16 years in this location. I give a WHITE TEN LEGAL GUARANTEE. My fee depends on my success. Send for free 100-p. book and positive proofs.

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SAFE, PAINLESS, PERMANENT CURE GUARANTEED 25 years' experience. No money accepted until patient is well. CONSULTATION AND VALUABLE BOOK FREE, by mail or at office. Write to DR. C. M. COE, 915-B Walnut St., Kansas City, Mo.

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DOUBLE DAILY SERVICE, with new 80-foot Acetylene Gas-lighted Pullman Chair Cars (seats free) on night trains and Pullman High-back seat Coaches on day trains. Direct Line between Kansas City and St. Joseph, Mo., Hiawatha, Sabetha, Seneca, Marysville, Kan.; Fairbury, Hastings and Grand Island, Neb. QUICK TIME TO CALIFORNIA AND THE PACIFIC NORTHWEST. S. M. ADSIT, Gen'l Pass. Agent, St. Joseph, Mo.

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

All communications for this department should be addressed to Mrs. Kittie J. McCracken, Station B, Topeka, Kans.

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Grange Notes.

Are you preparing a program for our Pomona Grange? Settle upon music. Let us have a "full orchestra."

You can not stand still or shirk your share of labor if you are a granger. Take your responsibilities in hand with a determination to make of your grange a shining light.

There are 50,000 more patrons in the United States than there were ten years ago.

Maine has doubled and Michigan trebled its Grange membership in less than ten years.

Woman's Work in the Grange.

The Grange should stand for the best in the social life of the country neighborhood of which it is a part. It should represent the brains and intelligence, the culture and refinement of men and women who are connected with it.

It is the woman's prerogative to be the leader in all and each of these things. If one woman in the home can accomplish so much for her family, what can not twenty or fifty accomplish when banded together in friendship, love, and fraternal ties?

Is music not inspiring, uplifting? Let the sisters in the grange see to it that music, both vocal and instrumental—the best attainable—be a part of the program at each meeting. Some member may possess a talent for public reading. Make the most of that feature. Have you a library? If not, devote your united energies to that end. Start out with the determination to raise \$25. Entertainments, subscriptions and hard work will accomplish it, and it is surprising the number of good books which can be bought for that sum. Appoint a librarian, have a system of fines for retention of books beyond a stated time, and for mutilation. Keep a strict record and apply money thus obtained to buying more books. If you are fortunate in having a grange home, hang pictures on the wall. You will find this most pleasing and instructive, if careful in your selection. Beautify with window-shades and other furnishing to give a

I am proud
of my lamp-
chimneys. I
put my name
on them.

MACBETH.

How to take care of lamps, including the getting of right-shape chimneys, is in my Index; sent free.

MACBETH, Pittsburgh.

homelike appearance. Do not be content with things as they are. Grow, expand, reach upward.

In all this the woman must be the leader. I have in mind a grange hall, the lower room of which is used in time of elections as a voting precinct. Meals are served all day by the grange sisters. In this way a nice sum is netted which is used for a special purpose, as they decide. And the "polls" are benefited by the presence of the wives and sisters of the voters. Charity work is suggestive of many fields for labor. The orphans' home, the Florence Crittenden Home, social settlement work—all are in urgent need of the helping hand of those sisters whose hearts are in sympathy with such work.

A geological collection of woods, minerals, and curios in which our State abounds, is a source of education and amusement. A fair is another means of bringing out the best at the hands of the promoters, both in the display, and in the ingenuity and tact developed in getting up the display. Try it this fall. In the meantime, let us abound in grace and picnics.

A Humane Barb Wire Fence.

Several years ago a farmer, after examining the wounds of a very valuable colt which had been seriously injured by the old common rigid barb wire fence, resolved to invent a new fence, one that would be just as effective in turning stock, but that would not be so dangerous and destructive.

He set himself the task of producing a yielding or loose barb, that would not lacerate nor maim stock. This was much easier said than done, but he determined not to be discouraged by difficulties. He had been deeply impressed by the injury and suffering caused by the barbarous rigid barb. When a man works from such motives, success may be slow but it is generally sure, and so it was in this case. It didn't take him long to plan and perfect the principle of the loose barb, but it took years of arduous labor to make the machines that would do their proper work, and turn out a perfect product.

The prime object of the barb on wire fencing is simply to warn the approaching animal of danger, not to inflict injury. But until the invention and perfection of this loose or yielding barb, the warning was too often accompanied by ugly cuts and wounds, that either destroyed the animal or injured it so seriously as to greatly lessen its usefulness, and consequently lower its value.

Thousands of dollars worth of stock was lost every year, as a result of the almost universal adoption of the old rigid barb-wire fence. Its use increased despite its deadly work because wire fence is a necessity. It was the cheapest fence the farmer could build, and with all its objectionable features, it was the best cheap fence the market afforded in its day. But its day is past, and like everything that is injurious, it must give way to improvement and better things.

We believe that farmers will be glad to know more about this new Yielding or Loose Barb-Wire Fencing—the fence that may properly be styled "a humane barb-wire fence," so we take pleasure in calling your attention to it. In another column of this paper appears the advertisement of the Hart Grain Weigher Co., of Peoria, Ill., who make this "ideal" fence. Look it up, and write them about it. Mention Kansas Farmer when you write, and they will send you circulars and prices, and will gladly answer any questions you may choose to ask regarding the fence.

Professor Holden Visits Henry Field's Seed-Home.

A pleasant incident in the coming of the corn train was the visit of Prof. Holden to Henry Field's seed-home. He and two others of his party got up at 6 o'clock Wednesday morning and started afoot for Mr. Field's, but as Henry had invited them, he met them before they got far on the way. They spent more than an hour looking through the establishment, as delighted as children in a toy store. For Mr. Holden is a corn crank of the deepest dye, but his is that intelligent sort of enthusiasm that makes the world better. He went into the field and plucked a bundle of stalks for his car, and took liberal samples of Henry's graded seed-corn with him. Prof. Holden had known of this special machine which Mr. Field has for the grading of seed-corn, and therefore was favorably impressed with the value of this graded corn to the farmer in getting an even dropping of seed in each hill from his planter. Mr. Field may feel very highly honored by Prof. Holden's visit to his seed-houses, as it was Prof. Holden's first visit to any seed-house in Southwest Iowa.

He could hardly tear himself away and Henry on his part was equally delighted with his visitors and their expressions of approval.

Earn a \$25 Prize.

Successful Farming, Des Moines, Iowa, is offering \$25 in prizes to farmers who will write them a short statement of how they have made money on the farm. They wish the article to state what business you had been in or experience you had before you went to farming, where you lived, where you started to farm, whether you rented or bought a farm, and if you rented, what price you paid, how long you rented, etc. If you bought, where you bought, the price you paid per acre, when you bought, how much you bought, how the payments were to be made, what crops were raised to pay for the land, etc. The article should give your age, when you started in and whether you raised live stock, did dairying, or gardening, etc.,

and a statement as to what you did which in your judgment has helped you to succeed; how many acres you now own, how much stock, what you really feel you have made farming and how you have done it; whether you advise people starting to rent or buy even though they can make but a small payment down.

These articles will be used as a series to encourage young men and other farmers, and it is desired that they be made just as complete as possible. The \$25 will be distributed among those sending the best articles. No reader of this notice who has made a success should fail to send in a story of such success. It may mean that you will win a prize with very little effort on your part. Write the story of your farming experience in your own words, giving actual facts and in as few words as possible. Address all letters to Farming Department, Successful Farming, Des Moines, Iowa. These articles should be submitted at your earliest convenience, and certainly before May 31. Every person sending in an article will be given a year's subscription to Successful Farming that they may read all the articles, in addition to any cash prize they may earn. Send photograph with your article if possible.

The Markets

Kansas City Live-Stock Market.

Kansas City, Mo., March 27, 1905. The cattle run last week was a little heavier, but prices did not suffer any. Beef steers and stockers and feeders quit the week unchanged, from close of previous week, cows and heifers gained slightly. Beef steers are now selling 50 to 75 cents higher than this time a year ago. The supply was small the last half of the week, but packers apparently did not need them and Friday trade in fat steers was dull and lower, mainly because there were so few desirable cattle here.

The cattle market opens the week promising this morning, strong to 10c higher. Supply here is 9,000 head, but other markets are lightly supplied, and strength is reflected here. The best steers sold at

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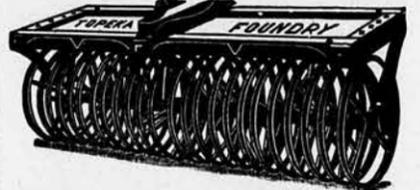
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AGENTS WANTED Sell our \$1 bottle Sarsaparilla for 35 cts.; best seller; 200 per cent profit. Write to-day for terms and territory. F. R. GREENE, 115 Lake St., Chicago.

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If interested send for circular and full description. Enclose stamp. Successful Agriculture, 68 Union Blk. St. Paul, Minn.

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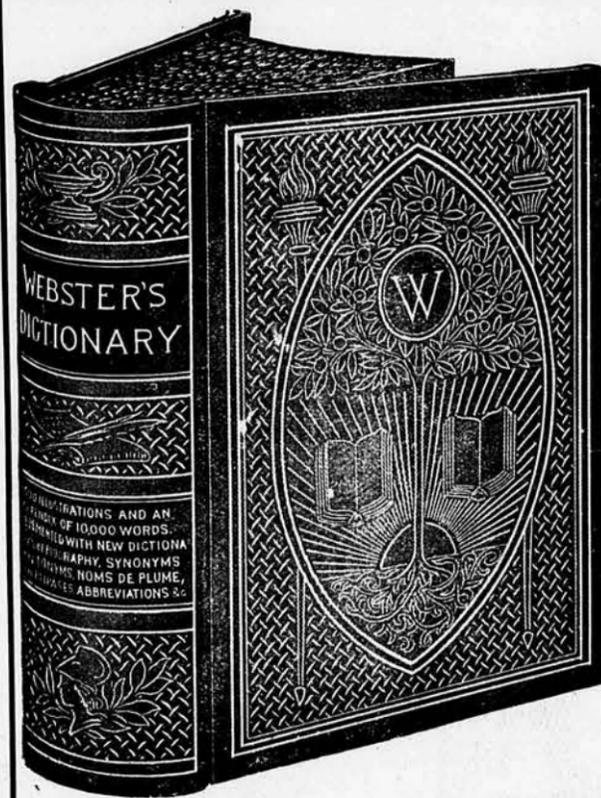
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\$5.65 last week, but a large number sold at \$4.40@5.65, and bulk of steers sold at \$4.50@5.50. Top to-day \$5.55. Topp cows and heifers bring as much or more than the low grade steers, \$4.25@4.75, and some droves of choice heifers including a few steers sold at \$5@5.30. Most of the fair to good cows and heifers sold at \$3.50@4.35. As is the case every year about this time, butcher cattle are scarce, and local packers need them so badly that Eastern order-buyers are forced out of the market. Feeders should feed more cows and heifers for the March and April markets. Stockers and feeders were rather plentiful, and demand good, and while prices were strong, the week closed without much change. Proportion of stockers is large to-day, prices weak; \$3.50@4.50 still buys the bulk of the country cattle, but quite a number of fleshy steers went out at \$4.75@5.05, which looks like an extravagant price. Of course, fat steers advanced \$1 from March to June last year, and might do it again this year.

Hog prices are fluctuating more or less excitedly, but made a net gain of 12c last week. Packers are sulky in the hog-pens whenever their orders do not force some show of life, but conditions are gradually elevating the market. Prices are weak to a shade lower to-day but closed steady, top \$5.30@5.35, bulk of sales \$5.10@5.30, light hogs up to \$5.25, pigs \$4.30@4.80. Quality is first-class.

Lambs and yearlings gained a quarter last week, wethers and ewes sold a little higher, although the market on these was never fully tested. Receipts were small for two months, less than 13,000 for the week. Market opened steady to-day. Lambs are worth \$6.75@7.50, yearlings \$6@6.70, wethers \$5.35@5.90, ewes \$4.90@5.65. Run to-day 10,000 here and heavy in Chicago. Market weak at the close. J. A. RICKART.

Kansas City Grain Market.

Milling wheat was in fair demand and sales were generally made at steady prices. Low grades were neglected but there was little if any, change in prices. Receipts were fairly large. A good clearance was made. The railroads reported 114 cars of wheat received, compared with 108 cars a week ago and 46 cars a year ago. Sales of car lots by sample on track, Kansas City: Hard wheat—No. 2, 3 cars \$1.05, 1 car \$1.02 1/2, 3 cars \$1.01, No. 3 hard, 2 cars \$1.02 1/2, 1 car \$1.01 1/2, 2 cars \$1.01, 1 car \$1.00 1/2, 4 cars \$1, 2 cars 99 1/2 c, 2 cars 99c, 10 cars 98 1/2 c, 2 cars 98c, 7 cars 97c, 1 bulkhead car 97c, No. 4 hard, 1 car 99 1/2 c, 1 car 99c, 1 car 98c, 2 cars 97c, 5 cars 96c, 3 cars 95c, 10 cars 93 1/2 c, 6 cars 93c, 1 bulkhead car 92c, 2 cars 92c, 2 cars 91c, 1 car 90c, 2 cars 86c, 1 car 85c. Rejected hard, 1 car 75c, 5 cars 72c, 2 cars 68c. Soft wheat—No. 2 red, nominally \$1.06@1.08, No. 3 red, nominally \$1.04@1.06, No. 4 red, 1 car 95c, 3 cars 90c, nominally 90c@1.04. No grade red, 5 cars 75c.

At 1/4c lower prices corn was in good demand. Receipts were considerably smaller than a week ago. The railroads reported 89 cars of corn received compared with 157 cars a week ago and 15 cars a year ago. Sales of car lots by sample on track, Kansas City: Mixed corn—No. 2, 1 car yellow 46 1/2 c, 2 cars 46 1/2 c, 18 cars 46c; No. 3, 1 car 46c, 15 cars 45 1/2 c; No. 4, nominally 40@45. White corn—No. 2, 1 car 45 1/2 c, 5 cars 46c; No. 3, 1 car 46c, 2 cars 45 1/2 c.

Receipts of oats were unusually large. At 1/2@1 1/4c lower prices the demand was fair. The railroads reported 60 cars of oats received, compared with 16 cars a week ago and 4 cars a year ago. Sales of car lots by sample on track, Kansas City: Mixed oats—No. 2, 2 cars 32 1/2 c, 5 cars color 32 1/2 c, 2 cars 32c; No. 3, 1 car 32c, nominally 31@32c. White oats—No. 2, 4 cars 33 1/2 c, 3 cars 33c, 2 cars 32 1/2 c; No. 3, 2 cars 32 1/2 c, 1 bulkhead car 32 1/2 c. Rye—No. 2, 1 car 78c, 1 car 76c. Corn-chop—Nominally 90c, in 100-lb. sacks.

Flaxseed—Nominally \$1.14 per bushel. Timothy—Nominally \$2.55 per 100 lbs. Bran—Nominally 80c, in 100-lb. sacks. Shorts—Nominally 80@84c, in 100-lb. sacks. Millet—German, \$1.40@1.50; common, \$1.25 @1.35 per 100 pounds. Red clover and alfalfa—\$9@11.50 per 100 lbs.

Cane-seed—\$1.40@1.50 per 100 lbs. Kafir-corn—1 car 72c per 100 lbs. Linsed 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. Cactor beans—\$1.35 per bushel, in car lots. Barley—No. 2, 1 car 40c; No. 3, 1 car 39 1/2 c; rejected, 1 car 38c.

South St. Joseph Live-Stock Market.

South St. Joseph, Mo., March 27, 1905. The week was ushered in with only a moderate supply of cattle, and included in the supply were a fairly good number of choice steers. Packers seemed eager for good killers and purchased freely at prices strong to 10c higher than the close of last week. Prime 1,562-lb. steers sold up to \$5.75, the extreme top for the day, and a very good quality of steers, fat but lacking in weight sold around \$5.20@5.30; light and medium weight steers sold largely at \$5@5.10 with coarse qualities at \$4.50@4.75. Receipts of butcher cattle were proportionately small and buyers rode hard to fill orders, thus creating a very keen competition at prices strong to 10c higher than the latter part of last week. Quarantine offerings were also in moderate numbers and prices were 10@15c higher than a week ago. Very few stock and feeding cattle were carried over from last week and there were very few fresh arrivals; in consequence, the regular yard traders were keen buyers at somewhat higher prices than prevailed last week. Extra-good warmed-up Polled Angus steers are sold at \$5 to go back to the country to be finished but a very good class of strong-weight steers sold at \$4.25 @4.50; yearlings and calves are meeting with good request at \$3.35@4.25 for fair to choice offerings.

The hog market took another downward turn to-day caused by the concentration of supplies in Chicago; receipts were not large and quality good and the market had fair life at prices ruling weak to 5c lower, bulk selling at \$5.12@5.30 with the bulk at \$5.20@5.27 1/2. While some of the trade continued to have bullish views of the future, the majority, however, feel that there is nothing in conditions to

Special Want Column

"Wanted," "For Sale," "For Exchange," and small want 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—Polled Durham bull; red; sure breeder; very kind; weight, 2000 lbs.; extra good; price right. E. H. Whiteside, Lincoln, Kans.

FOR SALE—3 choice bred, registered, yearling Angus bulls; price about one-half value; must sell at once. This ad will appear but twice. Write, or see, Wagner Bros., Enterprise, Kans.

FOR SALE—10 Registered Galloway bulls, cheap. J. A. Darrow, Route 8, Miltonvale, Kans.

FOR SALE—Registered Hereford bulls; good ones; low price. H. B. Clark, Geneseo, Kans.

FOR SALE—Red Polled bulls, half-brother to World's Fair winner. D. F. Van Buskirk, Blue Mound, Kans.

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, Kansas.

FOR SALE—Shorthorns—One herd bull, Greenwood 165865 and 3 young bulls, all Scotch-topped. Brookover Bros., Eureka, Kans.

FOR SALE—A registered Red Polled bull, 30 months old, weight 1500 pounds, in good condition, will guarantee him a breeder; price, \$100. For pedigree or other information address W. E. Brockelsly, 815 E. Hancock, Lawrence, Kans.

FOUR GOOD HEREFORD BULLS, 15 to 20 months old, 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—Eight good, registered Shorthorn bulls, four straight Cruickshank, good ones, and prices right. H. W. McAfee, Station C, Topeka, Kansas.

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

HORSES AND MULES.

FOR SALE OR TRADE—2 high-grade draft stallions, 6 and 7 years old, weight 1,700 and 1,800 pounds respectively; registered in American Draft Horse Association. Geo. D. Robertson, Ottumwa, Iowa.

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 1450 pounds; three coming 1 year old. Two are thirty-one thirty seconds. One fifteen-sixteenths, and two are seven-eighths. Would sell cheap if any one 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. Axtell, Newton, Kans.

FOR SALE CHEAP—Or trade for cattle, one Mammoth-bred jack, 4 years old, black, good performer, a breeder; one Norman brown stallion, 1800 pounds, 10 years old; one trotting-bred stallion by Slikwood, 16 hands, weight 1200 pounds, 4 years old, sure breeders. J. C. Hentzer, 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 53, Sterling, Kans.

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

FOR SALE—A registered black Norman stallion, weight 1800, coming 8 years old; also a three-quarter grade, coming 5 years old, weight 1500, a good individual and breeder. R. E. Casad, Ocheitree, 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.

SWINE.

25 FINE DUROC GILTS—Bred to Improver O. K. 24651 for April farrow. Special price to close out. John Schowalter, Cook, Neb.

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

CENTRAL Kansas Stock Farm has for sale cheap, splendid Poland-China boars and gilts. May and June farrow, sired by Corcoran Woodburn, and K. O. Perfection, out of Sunshine and Tecumseh sows. E. J. Kdownton, Prop., Aiden, Rice County, Kansas.

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

PATENTS.

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

warrant any permanent gain in values and are advising their customers to market their hogs as soon as ready. It is now approaching the heated season and shippers will do well to exercise the greatest care in loading their hogs, for if caught in a hot night while in transit the loss from smothering will be great. Local packers still maintain that hogs are cutting out at a loss which makes it evident that they will bear prices whenever receipts are sufficient to warrant them in doing so. They are buying very freely, however, and South St. Joseph could use double the number without impairing the healthy tone of the trade.

Receipts of sheep and lambs to-day were exceptionally heavy, being about the third largest on record. Of the 11,281 fresh offerings on sale, the Colorado and Western-fed lambs predominated and sales were largely at \$7.35@7.50 for desirable offerings. Mexican yearling wethers at \$6.55, Mexican ewes brought \$5.75. There was much activity to the trade and prices held fully steady.

WARRICK.

SEEDS AND PLANTS.

FOR SALE—Seed Sweet potatoes; 6 kinds; write for prices to I. P. Myers, Hayesville, Kans.

FOR SALE—Speltz, 60c bu. f. o. b. Two registered Galloway bulls. Wheeler & Baldwin, Delphos, Kans., or S. B. Wheeler, Ada, Kans.

FOR SALE—300 Strawberry plants, five kinds, early, mid-season and late, for \$1; 200 Kansas raspberries, \$1; 25 Concord grapes, \$1; 800 Palmetto asparagus, \$1. A. J. Nicholson, Manhattan, Kans.

STRAWBERRY, Blackberry and Raspberry Plants—Best varieties, low price. J. H. Wendell, Route 5, 2 1/2 m. north on Central Ave., Topeka, Kans.

SPELTZ—Recleaned and sacked, 60 cents per bushel; 10 bushel lots, 55 cents; 25 bushels or more 50 cents. S. B. Wheeler, Ada, Kans.

SEED—CORN—"Hildreth Yellow Dent" easily ranked first as the best producing variety." Bulletin 123. Write C. E. Hildreth, Altamont, Kans.

STRAWBERRY PLANTS—Ten best kinds, 35 cents per 100; \$2 per 1,000. Asparagus, 100, 35 cents; 1,000, \$2.50. Rhubarb, 12, 45 cents; 100, \$3. Raspberries and Blackberries, 60 cents per 100. Hardy Schrubbs, 15 and 20 cents each. Hardy Perennial plants, 5 to 10 cents. Bulbs, Dahlias, 7 cents; 100 \$5.50. Gladiolus, mixed, 12, 15 cents; 100, \$1. Tuberoses, 3 cents; Caladium (Elephant ears), 10 cents. H. H. Kern, Bonner Springs, Kans.

ENGLISH BLUE-GRASS SEED FOR SALE—My own raising; fresh and clear of all foul seed; \$5 per cwt., sacked and loaded. Chester Thomas, Waterville, 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.

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. Axtell, Newton, Kans.

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

FOR SALE—Speltz, 60 cents per bushel; Soybeans, \$1.25; Red Kafir-Corn, 50 cents; sacks free in ten bushel lots. Seed extra nice and clean. C. M. Garver, Abilene, Kans.

ALFALFA SEED, \$7. J. Glenn, Wallace, 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. Catalogue free. Seneca Nursery, Seneca, Kans.

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TWO SNAPS—100 acres, cheap improvements, 50 cultivated, four miles from town; price, \$1,500, \$700 down, balance payments. 160 acres, all valley land, 140 acres cultivated; price, \$3,200, small payment down, balance in payments. Garrison & Studebaker, Minneapolis, Kans., also office at Salina and Florence, Kans. Try us.

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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, \$3,600; 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, Kans. Office at Minneapolis, Kans., also.

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WANTED—To correspond with a married man who is a good manager and worker in mixed farming. Good house and conveniences; gas, fuel and light, hard and soft water, etc., and close to school. Apply at first instance; permanent situation if satisfactory; references given and required. Address, Agriculturalist, Kansas Farmer, Topeka, Kans.

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 Geiser Mfg. Co., Kansas City, Mo.



This is just the book for the farmer to keep his accounts in; systematic in arrangement of accounts; covers every phase of farm accounting; shows the losses and gains at the close of the year; complete instructions and illustrations accompany each ledger; 200 pages 10 by 13 inches, substantially bound. Price, \$3.00 by mail or express, prepaid. Write for sample sheets and testimonials. Address H. G. PHELPS & CO., Publishers, Bozeman, Montana.

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Have a few very choice bulls
left of the low-down thick-set
type; am making very low
price on them in order to
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Will make special
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A special offer of a few fine young bulls, coming
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