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KANSAS FARMER.

Established in 1863.

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E. H. Lord of Kingman County reports as follows: Lots of wind last week and considerable rain. Wheat is growing pretty lively, but not as much was put in last fall on account of drouth. No peaches this year of any account; probably the same may be said of apricots, apples, and plums. More corn put in this year than for three or four years past. Listing corn has commenced in earnest.

THE TOPEKA FARMERS' CLUB.

The regular semi-monthly meeting of the Topeka Farmers' Club was held Saturday evening with a good attendance. Owing to the illness of President Guilford Dudley, Mr. C. W. Merriam presided. A very suggestive pa-

per on "The Relations Between Landlord and Tenant" was read by Hon. Bradford Miller. A discussion of the paper followed by members present and it will be presented in full in these columns later.

This was followed by a discussion of the subjects of good roads, the culture of alfalfa and tame grasses.

Mr. James Chappelle, representing the Commercial Club, introduced the subject of a State Fair at Topeka and urged the cooperation and influence of the club in the establishment of a permanent State Fair that will be worthy of the great agricultural interests of the State. The members of the club were invited to meet with the Commercial Club and the farmers of Shawnee County on Saturday afternoon, April 8, in the interests of a big agricultural fair at Topeka this year.

The next meeting of the Farmers' Club will be held at the Commercial Club Rooms on Saturday evening, April 15, and the subject of good roads will receive especial attention.

The organization of the club is not fully completed but the membership is intended to include all residents of Topeka who own farms and who are interested in improved methods of farming.

ARTIFICIAL SPRINGS.

Some time since, the writer had the pleasure of visiting the large breeding farm of Mr. L. M. Hartley, Salem, Iowa, and there found a system of waterworks which he believes to be unique. Mr. Hartley is a breeder of Percheron horses, Shropshire sheep and Poland-China swine, of which he maintains about 150 head of the first, 2,000 head of the second, and 200 head of the third, in addition to an indefinite number of feeding cattle. With such a large number of farm animals on the place the question of supplying them with pure drinking water was considered worthy of much thought, and the system he has evolved is most remarkable. Mr. Hartley lives in a rich farming region the surface of which is gently rolling and under which abundant water for wells is found at an average depth of about 26 feet. It became necessary for him to have wells and windmills in each pasture and feed-lot or to establish some central system whence each of these could be supplied. The number of windmills necessary on a large stock farm would be great and the labor of caring for them considerable; hence, Mr. Hartley conceived the idea of making an automatic system which would require absolutely no care after it was installed.

This he did as follows: Beginning at the foot of one of the gentle hills, he cut a trench as far into the hill as his men could conveniently dig; then he moved forward fifty feet and dug a well which was connected with the trench by having a hole bored from the bottom of the trench to the bottom of the well and a porous drain-tile pushed through. Another well, fifty feet in advance, was dug and its bottom connected with the bottom of the first well. This was continued until there now exist twenty-six wells connected together by drain tile, which reaches from the bottom of one well to

the bottom of the next. In the center of each well a large porous drain tile, two feet in diameter, was set on end others on top of this until they reached within ten feet of the top of the well. A large flat stone was placed on top of the topmost tile and the earth replaced in the well, the surface smoothed over and resowed to bluegrass. A two-inch iron pipe was connected with the last well in the series and extended the length of the ditch to a cement watering trough five feet long, three feet wide, and eighteen inches deep, set level with the surface of the earth. From near the surface of the water in this trough a pipe is conducted under ground to a similar trough in an adjacent field, and so on until the system is completed.

All the fields and feed-lots are thus supplied with clear, pure, cold well water, which is always in motion and which, in spite of the severe winter weather experienced in Iowa, never freezes.

The system has proved so satisfactory that the nearby city adopted it for its city waterworks, and it has proved a complete success for that purpose. The connecting of the several wells at their bottoms through a fifty-foot stratum of earth was accomplished by the use of an ordinary augur with a jointed handle so arranged that it could be lengthened or shortened at will.

While the expense of constructing this system was considerable the owner considered that he had to do it but once for all time, and he now knows that whether he be at home or away, no animal on his place can suffer for water at any season of the year.

THE FARMERS AND THE STATE FAIR.

On Saturday, April 8, there will be held in the Commercial Club Rooms of Topeka a mass meeting of farmers called to discuss the State fair of 1905. The object in calling the meeting is that those who have charge of the management of the State fair may learn from the farmers themselves what they most desire in a State fair. The purpose is to give most prominence to live stock, agriculture, horticulture, the dairy, etc., and less prominence to other features which are so often conspicuous in such expositions. A special committee has been appointed to raise a large fund, which shall be devoted entirely to the paying of premiums in the departments mentioned above, while another fund will be provided for the speed ring.

There will, of course, be an exhibition of speed horses. No fair is considered complete without it. But this fair will not be devoted entirely to the interests of the race-horse. In fact, it is intended that the fair shall be an exhibition of agricultural and live-stock products with the race-horses as an incidental feature.

There will be other forms of entertainment provided in plenty as well as a sufficient number of refreshment-stands and dining-halls. But it is proposed to have these amusement features of the cleanest and that there shall be nothing objectionable upon the grounds. The fair will be so conducted that the farmer may take his

wife and daughters to their mutual profit and be glad to return the next day. The management of the fair this year is in the hands of men of character and standing whose financial ability is such that its success is assured.

It will be remembered that the Legislature made no provision for a State fair in Kansas in spite of the fact that this was the only thing asked of it by the agricultural and live-stock interests of the State. Other interests, which are of minor importance as compared with live stock and agriculture, were most generously treated, but the meager appropriation asked for with which to establish a State fair was refused and Kansas must continue to remain a back number among her sister States. The men at the head of the Kansas State Exposition Company have assumed the responsibilities of doing for Kansas what her Legislature should have done, and it is hoped that the farmers will render the support of their advice and suggestion as to what is desirable in a Kansas State fair.

RICE COUNTY, KANSAS.

Several generations ago that section of our State which is now embraced within the boundary limits of Rice County, Kansas, was included within the great American Desert. With the advent of the ranchman and the pioneer settler came the knowledge that this was not a desert but a country with some agricultural possibilities, and it has since been known as the "short-grass" country. A later influx of settlers, largely of foreign origin, learned that no country on earth possessed greater possibilities for wheat-growing, and this region then became known as the "wheat belt." Now, as the farmers have become forehanded or wealthy through wheat-growing, they have turned their attention to live stock and alfalfa, and the great American Desert, the "short-grass country" and the "wheat-belt" have all disappeared in the alfalfa region of which Rice County is the center.

While the reports of the State Board of Agriculture show that Kansas has a larger acreage of wheat this year than last and while a personal inspection made last week shows this crop to be in better condition and vastly more promising than has been known at this season for many years, it still remains true that this is the alfalfa region of Kansas and Rice County is its center.

Alfalfa finds its natural home under the conditions existing in the central and western plains of Kansas and the farmers have learned that there is no crop that is at once so valuable as feed, and so profitable as a rent-payer as is alfalfa. With its advent has come good live stock, and with both has come prosperity. Herds of all classes of pure-bred stock are now found throughout this region which was formerly occupied only by the range-steer, the cow-pony, and the jack-rabbit and in which the hog was almost entirely unknown. Central and Western Kansas has become a great pork-producing region because of the fact that the farmers have discovered that they can

(Continued on page 373.)

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SORE THROAT
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Pure **Seed**
FOR 1905

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A Practical Guide to the Cultiva-
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This book is written from the standpoint of
the practical fruit grower; it is up to date
in every particular, and covers the entire
practice of fruit culture. It gives in plain,
practical language, descriptions of such varieties as
are most in demand in our markets, and the
methods practiced by the most successful cul-
tivators of many sections of the country. Sepa-
rate chapters are devoted to the apple, pear,
peach, apricot and nectarine, plum, cherry,
quince, mulberry, grape, blackberry, raspberry,
cranberry, strawberry, blueberry, huckleberry,
subtropical fruits, propagation of fruit trees
and plants, fruit growing under glass, insect
pests and fungous diseases. The chapter on
the apple is particularly comprehensive and
complete, forming a monograph in itself. The
chapter on forcing peaches, grapes, strawberries,
and other fruits, describes the most successful
methods of the present day, and is the most
recent practical treatise on this important in-
dustry.

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Polishing and Disc Grinding
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rilla for 35 cts.; best seller;
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ritory. F. R. GREENE, 115 Lake St., Chicago.

Agriculture

Lime for Grass.

The business portion of this town
surrounds a three-acre park in which
were planted seedling elms eight years
ago. The rows are about twenty feet
apart and the trees in the rows about
twelve feet apart, heights running
from twelve to thirty feet. Plowing
from six to eight times annually has
left this second-bottom land absolute-
ly clean. We are now grassing it.
Would air-slaked lime be beneficial,
and how much should be used per
acre? What is the most effective meth-
od of application after seeding has
been done? Is there anything better
than lime for blue-grass?

WM. T. LITTLE.

Noble County, Oklahoma.

It is possible that a light application
of lime on the land in question might
have a beneficial effect in starting the
grass. It would have been best to
have applied the lime last fall and
plowed it under or cultivated it well
into the surface of the soil, or the lime
should have been applied early this
spring; it may be applied yet, giving
thorough cultivation to the surface af-
ter spreading the lime. The lime
should be put on, however, before
seeding, and worked well into the sur-
face; and it would be a good plan if
the soil could lay a few weeks after
the lime has been applied. Lime is a
caustic and is apt to injure young
plants.

It is my judgment that it will not be
necessary to apply lime to your land
in order to get a good stand of grass.
The thorough cultivation which you
have given for the past few years
should have left the soil in excellent
tilth and fertility with a plentiful sup-
ply of available plant-food for starting
young grass. I would suggest that in-
stead of using lime at seeding-time you
use a little well-rotted barnyard ma-
nure, spreading it over the ground af-
ter seeding the grass. The cover and
mulch which the manure affords will
greatly favor the germination of the
seed and the starting of the young
grass-plants. The ground will be kept
from packing by heavy rains and the
young plants will not be so apt to be
destroyed by the hot sun as the season
advances and dry weather comes. This
fall or next spring if the grass makes
a good start you could make a light ap-
plication of lime, say fifteen to twenty
bushels per acre, spreading it even-
ly over the whole field.

A. M. TENEYCK.

Loading and Stacking Alfalfa.

Would you advise using a hay-loader
in putting up alfalfa? It gathers it up
out of the swath and will save hand-
ling.

Did you ever experiment in putting
a 6 by 6 inch casing of lumber length-
wise through the stack about four feet
above the bottom to prevent heating.
The air will pass through the center of
the stack this way and by boring inch
holes through the casing the air can
pass all through the hay. I have nev-
er tried it but shall this season.

Harper County. A. MCGARRAUGH.

If you load alfalfa onto a wagon and
haul it to the stack, I think a good hay-
loader may without doubt be economi-
cally used. Perhaps one of the objec-
tions to putting up alfalfa with a hay-
loader is that you will be inclined to
cure it almost entirely in the swath
and windrow, by which method the
leaves are apt to be lost more than by
the method of putting the alfalfa in
small cocks and allowing it to cure sev-
eral days before stacking. If you use
the latter method, of course the hay-
loader will not be necessary. Also,
many farmers are using the method of
stacking alfalfa from the swath by
means of the sweep rake and swinging
stacker. If you stack the hay in the
field and cure it in the swath and
windrow I think the sweep-rake, swing-
ing-stacker method of putting up the
hay will be the cheaper method and
more to be preferred than the method
of using the hay-loader and hauling the
hay to the stack on the wagon.

I have never experimented in mak-

ing air passages through the stack as
you have described in your letter. This
method is well worth trying and I
thank you for the suggestion and I
shall attempt to make a trial of it this
season at this station. Of course, oc-
asionally we put alfalfa that is a lit-
tle green into the stack and it is sure to
heat, and in such cases doubtless the
air-passages would help to cure out the
hay. If care were always taken, how-
ever, to have the alfalfa hay cured
when put into the stack, the air-pass-
ages would be unnecessary, and in fact
I am inclined to believe that the hay
will keep better and retain a brighter
color without the air-passages than
with them.

A. M. TENEYCK.

Macaroni Wheat.

I have been experimenting with the
new kind of wheat called durum or
macaroni wheat, and I am convinced
that it will, in dry years, produce dou-
ble or more to the acre than other
kinds of spring wheat raised here. I
raised some 375 bushels of it last year.
While it was very dry in this part of
the country it made 9 bushels to the
acre, while white wheat adjoining it
did not make more than 3 to 4 bush-
els to the acre. I have been trying to
induce farmers here to sow this durum
wheat, and as usual all kinds of re-
ports are circulated regarding it, the
main one being that our Kansas mil-
lars will not buy or grind this wheat
into flour, and consequently farmers
can not sell it readily or will have to
take much less per bushel for durum
wheat than for other varieties. It is
further reported that the millers will
not buy this wheat for the reason that
to make good flour from it, they would
have to buy new machinery to grind.

In the face of all these reports I
think I will be able to distribute among
the farmers the durum wheat I raised
last year—at least most of it. I be-
lieve you are in a position to know
what the true market value of durum
wheat is compared with No. 2 red
wheat, and possibly also you can give
information as to where this wheat
may be shipped in order to obtain full
market price. If there is no demand
for the durum wheat it would be use-
less to raise it, and for feed, corn
would be cheaper, as there is not so
much expense in harvesting corn, and
farmers would have more time to crib
it.

JOHN F. QUISTORF.

Cheyenne County.

The durum or macaroni wheat is
without doubt better adapted for grow-
ing in our Western climate and soil
than the ordinary spring wheat. The
general experience of farmers and the
reports from experiment stations indi-
cate that the macaroni wheat produces
on the average, much larger yields
than other wheat; also the chemical
analyses and tests of the wheat for
milling and making purposes indicate
that it is a valuable bread wheat. Its
special use, however, is for the manu-
facture of macaroni, and it is also used
in the manufacture of breakfast foods,
etc.

Although there is no question about
the value of the wheat as a producer
and as a food-product, yet, as you have
indicated, there is little local sale for
this type of wheat in this State. It is
true as the millers claim, that they
can not make good flour out of the
macaroni wheat with the machinery in
present use in the mills of this coun-
try. To make macaroni wheat flour it
requires a special class of machinery.
Several mills have been established in
the Northern and Northwestern States
that make a specialty of grinding mac-
aroni wheat, and there is a general
market for this wheat. Macaroni
wheat is quoted in the Minneapolis and
New York market reports, and has
been classified and is now graded the
same as other wheats. You can find
sale for the wheat in car-load lots, but
the elevators and the grain-buyers in
this State will not yet, as a rule, take
the wheat in small lots. I am not in-
formed as to whether there is a Kan-
sas City market for this wheat or not,
and I am only acquainted with the
name of one company that makes a
business of purchasing this class of
wheat, namely, the Van Dusen-Har-
rington Co., Minneapolis, Minn. In
1902 this company offered to purchase

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styles. It will
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vestigate. Write
for catalog and
price list.
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WELL DRILLING
MACHINERY** in America. We
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ing it for over 20 years. Do not buy until you
see our new Illustrated Catalogue No. 41. Send
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horizontal bars are very hard
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costs so little because sold direct to you. Catalog free.
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tomatic Lock Centers
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stack it. Light enough to take anywhere; strong
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of \$3 for every day a work, absolutely sure. Write at once.
ROYAL MANUFACTURING CO., Box 898, Detroit, Mich.

large quantities of this wheat in North Dakota, and paid the price of No. 2 Northern for a good grade of macaroni wheat. I think the wheat is usually quoted in the Minneapolis and New York markets a few cents less per bushel than No. 2.

Since this wheat is, as you say, better adapted for growing in Western Kansas than ordinary spring wheat, it seems advisable to plant it; and if a large number of farmers grow it they can club together and ship their wheat in car-load lots, thus securing a market for it. Also, without doubt if the farmers persevere and continue to grow this wheat, local mills will soon be established which will grind it—or, at least, local markets will be established for this class of wheat. There is no question about its value both as a producer in our dry Western climate and as a valuable food-wheat, as has been demonstrated by the experiments made by the United States Department of Agriculture, which has been largely instrumental in introducing this wheat into this country.

A. M. TENEYCK.

Seed of Native Grasses.

Can you tell me whether the Experiment Station has ever tried sowing the seed from our wild prairie-grass? In 1903 it was so wet that a great deal of meadow land could not be mowed; this grew up and went to seed and looked at a distance like great fields of small grain as it waved in the wind. It never occurred to me at the time to gather any of the seed and try it, and I have often wondered if anybody did? A. C. HEFNER.

Woodson County.

The botanical department of this station has been experimenting with sowing wild grasses for several years. It is possible to start the wild grasses from the seeds, but the grasses do not start readily; apparently many of the seeds are infertile or fail to germinate, and many of our best native grasses do not seed very abundantly, so that it is usually an expensive undertaking to secure enough seed to sow any large area of land.

Last year we gathered a considerable quantity of the seed of several common native grasses—big blue-stem, little blue-stem, Indian grass, and panic-grass. A part of the seed was sown last fall in different ways, and a part of it has been sown this spring; the idea being to experiment with different methods of getting the grasses started. There is certainly a great field for experiment in domesticating and breeding our wild grasses. No grasses grown under domestication are so well adapted to the climatic and soil conditions of this Western country as are the native wild grasses that are now growing on the prairies, and we hope in time to develop improved varieties of these grasses which can be economically and profitably propagated as domestic grasses.

A. M. TENEYCK.

Fresh or Rotted Manure for Top-Dressing.

Which is the better for the ground: to haul the manure out of the cattle sheds and stables as fast as it accumulates, or to let it lay in a pile in the barnyard for some time and then haul it out and scatter it?

SEVERT ANDERSON.

Doniphan County.

As a rule, the best plan in your part of the State will be to haul the manure directly on to the fields from the cattle-sheds and stables. Preferably the manure should be spread on grass, alfalfa, or clover-land; there may be seasons of the year when the manure could be hauled on other land, which are to be plowed or cropped, but the grass- or meadow-land would be available for manuring during a large portion of the year. There is no other crop which responds so readily and fully to a surface-dressing of manure as does grass, and even alfalfa and clover are much benefited by a surface dressing with manure, and the fertility of the soil is increased by the greater production of roots and humus, so that larger crops of corn and other grain may be harvested when the sod

is broken and the fields are again planted with these crops.

The coarse, strawy condition of fresh manure is objectionable when the purpose is to plow the manure under, and in manuring cultivated lands for immediate cropping the well-rotted manure is often to be preferred to the fresh, coarse manure; thus the plan of piling the manure in the barnyard for a portion of the year and hauling it out at a convenient season when it is more fully decayed may often be profitably and conveniently put into practice. There is apt to be much greater loss of the fertilizing elements of manure when it is allowed to remain in the pile for any considerable period in the open barnyard. There will be natural fermentation which liberates some of the nitrogen in the form of ammonia; also heavy rains will cause leaching, and in this way the soluble plant-food will be wasted. On the other hand, well-rotted manure is more quickly incorporated with the soil and there is less liability of injury to crops in plowing under well-rotted manure than in plowing under coarse manure. For surface-dressing, however, this point is not so essential, unless the manure is so coarse and full of straw as to interfere with operations in planting, cultivation, or in harvesting a hay crop. When manure is hauled on to pasture-land there is practically no objection to its coarseness.

As a rule, farmers make too heavy applications of manure. It is preferable to spread 40 loads of manure thinly over two or three acres of land than to put it on one acre. The good effects of the manure will all be secured when it is thinly distributed, with little danger of any injurious effect, while when the land is given a heavy dressing of manure there will be a larger proportion of loss of the fertilizing elements; and if the manure be plowed under, the risk of injury to crops will be much greater in a dry season.

A. M. TENEYCK.

Cow-Pea Questions.

I wish to ask through your columns where I can get cow-peas, and will they do well as far west as Osborne, Kans? I desire to sow eleven acres. One-half I shall cut for hay; the other half, use for hog pasture. The ground I wish to sow is high creek-bottom.

Osborne County. ALEX. CAMERON.

You can secure seed of cow-peas from almost any Kansas seedsman. The variety commonly sown in this State is the Whippoorwill. This is a medium early variety and does not grow quite so rank as some of the later maturing sorts, but it makes an abundance of forage and is one of the best varieties to plant for pasture. In your part of the State probably this variety will hardly mature a good crop of seed.

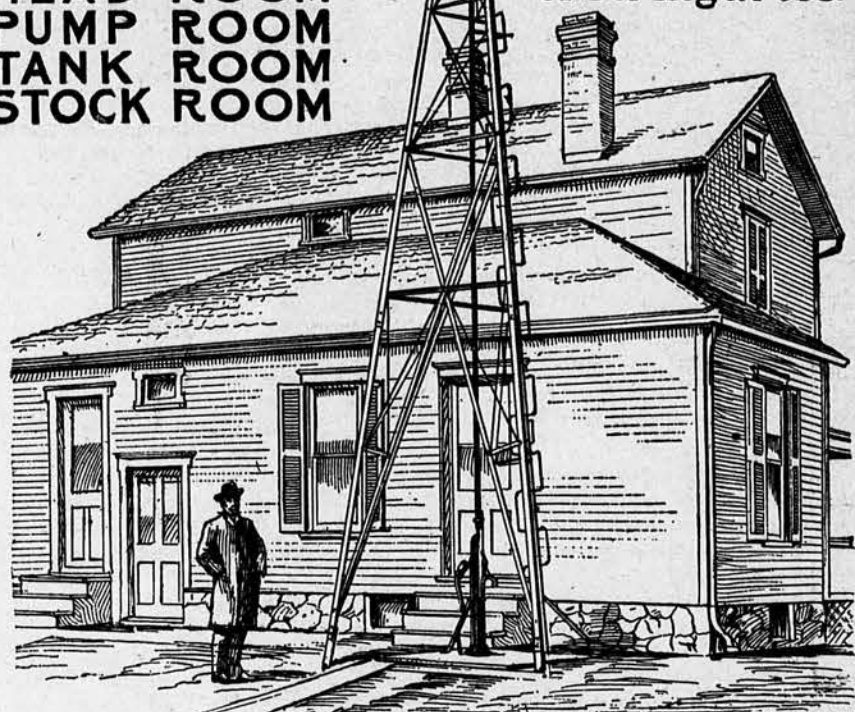
A variety which matures a little later than the Whippoorwill, which has proven to be a better seed-producer at this station, is the New Era. This variety is not quite so rank a grower as the Whippoorwill and although it may not produce quite so much forage per acre, the quality of the forage should be superior to that of the Whippoorwill or later maturing varieties, on account of the abundance of pods and peas which the New Era produces. According to the observations made at this station, this variety of cow-peas also matures more evenly than the others. We could supply you with a limited quantity of the seed of the New Era variety of cow-peas.

Cow-peas thrive best on a light, warm soil; the high creek-bottom which you mention will likely be a favorable soil for growing the crop. For forage and pasture I would recommend to sow the peas in close drills 6 to 12 inches apart in a well-prepared seed-bed. For seed the peas should be planted in rows 2½ to 3 feet apart. If planted in rows, it will be necessary to use a bean-harvester in order to harvest the crop. When sown broadcast or planted in close drills, the peas will not vine so much, and may be cut for hay with a mower. A. M. TENEYCK.

Many garden crops are injured by sowing the seed when the soil is too wet and cold than from almost any other cause.

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The Stock Interest

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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 Short-horns, J. D. Stanley, Horton, Kans.

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

April 28, 1905—Combination sale of Short-horns and Herefords at Coffeyville, Kans. H. E. Bachelor, Manager, Fredonia, Kans.

May 2-4, 1905—Blue Ribbon Cattle Sale at Sioux 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.

Cooperative Breeding.

PROF. OSCAR ERF, KANSAS STATE AGRICULTURAL COLLEGE, BEFORE THE AMERICAN BREEDERS' ASSOCIATION.

Glancing over the farm animals of to-day, one can not help but notice a large per cent of inferior individuals. They lack character and quality in general. This condition is largely due to the unstable attitude of breeders in not selecting wisely and staying with a particular type or breed. The purpose for which the animal is to be bred is oftentimes not clearly fixed in the minds of the breeders; and where it is, the attention is often diverted from it by popular sentiment. Successful breeding depends on the ability to remain with and to work for a fixed and clearly defined purpose. Animals of old, well-established breeds reproduce themselves with more uniformity than do those of breeds of more recent origin. To breed a certain class of animals for a long time, in the same direction, and for the same purpose, fixes the characters and increases the prepotent powers. Prepotency is the superior strength of character with which certain animals are endowed, enabling them to reproduce their characteristics in the offspring. This is plainly seen in the offspring of males of strong characters when mated to females of inferior stock. For instance, Mr. Cruickshank's Champion of England was at the head of a lineage of descendants among which were greatest Shorthorns of the last quarter century. The Holstein bull, Jacob, is directly or indirectly responsible for breeding some of the greatest milkers of that breed, and so one might name a large number of individuals of each class of animals that possess strong prepotent characters. Such animals in nearly all cases have ancestors that have been bred along one line for a long period of time and generally for a special purpose.

The practice of cross-breeding which is sometimes advocated has a degenerating effect, although for one generation, in animals intended for the butcher, it may prove to be extremely profitable. Cross-breeding seems to set free in succeeding generations, weaknesses and undesirable qualities that were apparently dormant in well-established breeds and is thoroughly unreliable in developing offspring of such quality as you might expect. Cross-breeding comes nearest to being successful when bred males are used on common grades. In nearly every case the main traits of the males will be noticeable in the offspring. As a matter of fact, this is the way herds and breeds are developed and improved by discriminate breeders, and at times under certain peculiar conditions. We have for illustration the Jersey breed established on the Isle of Jersey and the Guernsey breed on the Isle of Guernsey. The improvement has been mainly brought about by the environment and close breeding in early days, of the animals of these Isles, producing these phenomenal results, and later on the laws of the Isles prohibiting im-

portation of animals, the purity of the breeds was thus maintained. The breeding was carried on for a definite purpose on both of these Isles, the object sought being to obtain the greatest amount of butter-fat for the least amount of food, and it is well known how successful the people the Isle of Jersey have been in accomplishing this purpose.

The Holstein-Friesian breeds were established in communities where close breeding was practiced. It is true, environment had something to do in bringing about efficiency and developing character, but the fixing of these traits were mainly due to the breed. The fact that the farmers have worked together more or less in communities has given England its fame and greatest advantage in originating such excellent breeds adapted for its own as well as a great many other conditions. This indicates to us that successful breeding is largely due to cooperation. Study the conditions as you may, and wherever you find any marked improvement or the establishment of a successful breed you will find that it has been accomplished by a law or by cooperation.

As a science, animal breeding may be said to date back to the time when Robert Bakewell commenced to breed Longhorn cattle, black cart-horses and Leicester sheep in Northern England. He introduced a system of letting out males for breeding-purposes and assisted his breeder friends in mating and selecting animals which had the characters he desired, and we have all read of the great transformation that was brought about by his method of breeding. This again plainly resolves itself into a system of cooperative breeding. One can cite a great many systems of cooperative breeding that have been adopted throughout European countries, nearly all of which added materially to the improvement of stock. If this is wise to adopt in European countries, why is it not well to adopt in this country to a greater extent than has been done in the past?

Improvement in breeding has largely been stimulated in the past twenty or thirty years by the judging of animals in the awarding of prizes at county and State fairs and stock-shows. However, this improvement has not been entirely along legitimate lines. The judging of breeding animals to a type that is pleasing to the eye and profitable to the packer has always been practiced by the average showing judge, disregarding the more important point relating to the pedigree of the animal. While I believe there is room for common-sense work in the way of stock-judging, there are more important factors which need to be taken into consideration.

The practice of fitting breeding animals for show-purposes is not as a rule conducive to good results. Some have been bred and fattened to such an extent that in many cases it has materially interfered with the perpetuating of good, healthy, and profitable offspring. We ought to lay more stress than we have in the past on imperceptible characteristics, many of which are apparent to judges only in a limited way, while there are others of which they have no knowledge; for instance, prepotency, including with those necessary features strong constitution, and ability to produce offspring that thrive profitably and remain healthy under existing conditions. While it is almost universally conceded that is the condition of the animal generally indicates more or less its profitability as a feeder, verification of this fact is often impossible and I seriously question whether the average judge is invariably correct.

The misleading feature of awarding prizes to breeding animals from mere external appearances such as is so frequently done, works contrary to good breeding principles; yet when the average breeder has breeding animals for sale he never ignores that seemingly all-important point that they had won prizes (if such be the case), apparently putting the question to the buyer as if that particular fact was a merit to the animal for breeding-pur-

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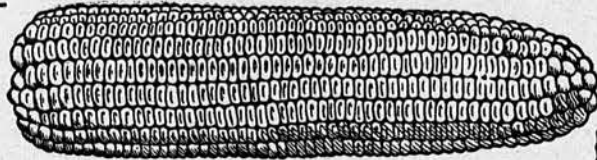
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poses. When an animal is awarded a prize in the show-ring it should be awarded on its pedigree, including performance, prolificacy and quality of offspring.

There is a great field in the developing of the dual-purpose cow. Too much weight has been given to the judgment of the man in the show-ring who knew actually nothing of the performance of the cow, judging her entirely on outward appearances. Likewise we have conditions that are still more absurd in the line of poultry-judging. The points upon which a fowl is judged under the present system depend entirely upon its feathers, shape and color, the comb, wattles, and legs, leaving out those very important points pertaining to prolificacy, its character to produce meat economically, its hardiness, and proficiency in producing eggs. Hence, it is evident that the show-ring practice of selecting animals for breeding-purposes is a plan that does not comply with the fundamental laws of breeding. A reliable and complete pedigree, such as can be produced only by a good breeding society, leaving out much of the personality or the ideas of a judge should determine the animal for breeding-purposes. Many have realized the fact that if time and money were available, much could be done in this direction; individual effort accomplishes little, owing to the time and expense required in reaching favorable results.

Prof. W. M. Hays, in an article on plant- and animal-breeding says as follows: "Our promising stock of Red Polled cattle is widely distributed—one herd here, another there—possibly hundreds of miles between. The herds of milking Shorthorns are scattered around the earth but centered nowhere. How can the breeders of these cattle gain knowledge of each other? How can they measure the breeding power of the parent of different bloodlines? The fairs are almost misleading to the breeder of cattle in combining milk and beef. The milk-giving power can not be measured by the show-ring judge and he must judge on the quality which he sees; hence, he is tempted to select those with good beef outlines, hoping that he may not do injustice to those with superior milking qualities. Here, breeding valuations, to be useful, must comprehend more than quality. They must include the ability to transmit both good beefing and milking qualities together with the vitality to resist tuberculosis, the tendency to live long and to be prolific. An owner of a herd of milking Shorthorns or of Red Polled cattle, who is isolated, will do well if he retain the excellence of his herd unless he has unusual facilities to travel and study the herds from among which he must choose his bulls. Most of such herds have been sooner or later seriously injured as general-purpose cattle by the selection of a bull that is weak in dairy qualities. The herds of these classes of cattle, if they were all collected into a few counties, would go forward rapidly to the success which they might merit. And what a blessing it would be to this country fifty years hence if this were now done. Large numbers under similar conditions where records of prepotency are kept, compared, and used, are necessary in animal breeding. Plans ought to be formulated for the production of a strain of hogs with a very large amount of tender, lean meat, abundant fecundity, strong bones, early maturity, large growth from a given amount of food and with sufficient uniformity of color and form to distinguish the breed. All these intrinsic qualities and the facts as to the animal should be recorded for future reference." He says that in order to adopt this plan there are two difficulties to overcome, one is the use and elimination of a very large number of animals required to found a few parents with the strongest power to produce the strongest breed of hogs. A number of breeders cooperating can best take advantage of large numbers of animals. The other difficulty is the long time which must elapse before hogs are produced from which are eliminated nearly all but the desired

Harvester Talks to Farmers—No. 3.

The Question of Quality, and how it is attained in the International Harvesting Machines.



THE International line of harvesting machines are heartily endorsed by nine-tenths of the grain and grass growing farmers of America.

Not because farmers could not get some other machine if they so desired, but simply because as careful, discriminating buyers they have deliberately chosen this line.

Their choice is based on experience. They have found that these machines are better constructed, and therefore will give better service and longer service than ordinary agricultural machinery.

And the explanation of the high quality of the International line is just as simple. It rests upon superior facilities and a far-sighted policy of management.

The manufacturers of the International line of harvesting machines own, operate and control the sources of their supply of raw materials; their lumber comes from their own forests, their coal and iron from their own mines, their steel from their own steel mills, their coke from their own coke-ovens, and so on.

They not only secure these materials at first cost, but, what is of greater importance, they secure a uniform quality of materials at a uniform price, enabling them to produce machines of the highest quality at a minimum cost.

And that's why the discriminating farmer buys the International line.

The matter of lumber is of special importance, for this country is threatened with a lumber famine, the nature of which is appalling when we stop to consider it.

The consumption of lumber increases every year; the supply, according to the best authorities, decreases at the rate of 3 per cent per annum, and the price consequently jumps from 1 per cent to 5 per cent every year. No. 3 pine, for instance, in June, 1896, sold for \$6.75 per thousand feet; in June, 1904, only eight years later, it sold for \$15.50, and other lumber has advanced accordingly.

The great harvester companies, realizing that it is only a question of time until the lumber problem will be one of the most serious confronting the manufacturer, inaugurated several years ago a policy in keeping with what they are doing in iron, steel, coal and coke—that is, to become entirely independent of the lumber markets by securing a source of supply of their own.

Their timber lands in the famous St.

Francis Valley consist of 60,000 acres which the International Company owns in southeastern Missouri, and 22,000 acres leased in northeastern Arkansas, both a portion of the reclaimed "sunken land districts."

The Missouri lands are near the new town of Deering, which the International Company is making a model lumber town, with all the advantages and comforts of modern life in the midst of the forests. The land is heavily timbered with oak, ash, elm, hickory, cottonwood, cypress, gum, hackberry and maple. At the principal mill here—shown in the illustration—a daily average of 44,000 feet of lumber is cut, and 125 men are employed at the mill and in the timber.

On the Arkansas lands the mill is at Truman; 85 men are employed and

generation, at least, to secure lumber of the highest quality and is absolutely independent of fluctuating markets, and, at the same time, by conserving the forests is not only reaping a benefit for itself and its customers, but is serving the best interests of the country at large.

Of course, we realize that "when we get down to brass tacks," as the saying is, the purchaser of a harvesting machine, or of any other commodity, cares very little about how it is produced or where it is produced, or by whom it is produced—provided he gets what he wants at a fair price.

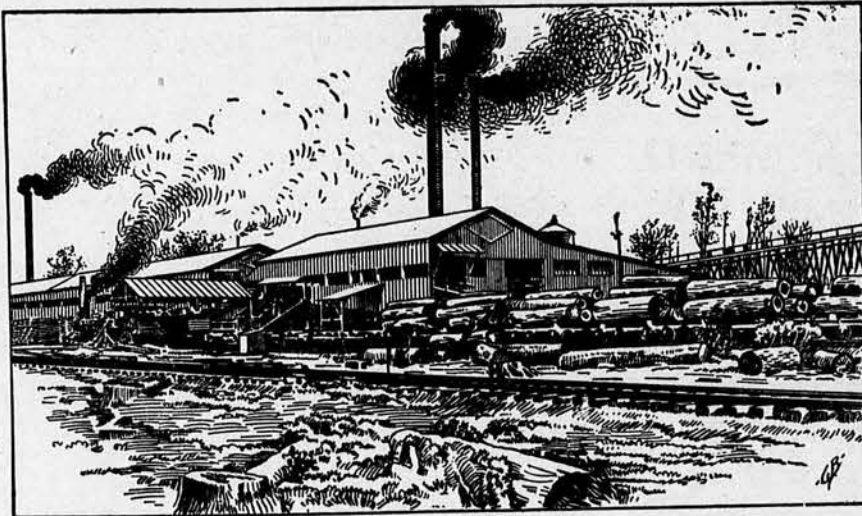
There's no sentiment about it one way or the other.

But that "provided" means much to you as a purchaser.

The old proverb has it that "you can't make a silk purse from a sow's ear."

Neither can you make a high-grade article from low-grade material.

The International Harvester Co. is manufacturing machines of the highest possible grade, of the best quality; more than that, of a better grade and higher quality than they could by any possibility manufacture if they did not have the exceptional facilities with which they have surrounded themselves, for both



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On both tracts, tramways, canals, and every modern facility for the economical handling of logs and lumber are provided.

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All timber is cut in strict accordance with the rules of forestry. Instead of denuding the land, only ripe trees with well-matured, hardened wood are cut, and the greatest care is exercised to protect and preserve all young timber, so that by the time the best timber is once selected from this vast tract of 82,000 acres—even at the rate of 20,000,000 feet per year, the present consumption of the International factories—a new supply will have grown to a commercial size.

In other words, the company by this far-sighted policy has secured practically a perpetual supply of the lumber necessary for the manufacture of the harvesting machines used by the American farmer. It is in position for the next

the production of raw material and the completion of the finished product.

And by the same token they are putting a higher quality into their product than any other manufacturer can put into his and depend upon the uncertain, unstable markets for materials.

This question of quality is at the base of the American farmer's success. It is because he has always striven for better things—for better live stock, for increased fertility in his land, for finer fruit, for better methods—that he has been able to give a new meaning to the word agriculture.

And it is because he has given quality first consideration in purchasing supplies that he has made money.

We ask your careful consideration of these facts, and of the advantages offered you in the International line. They mean a saving of money, a saving of time and worry, and a satisfaction which you can not obtain elsewhere.

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See Harvester Talks No. 1 and No. 2 in previous issues of this paper.

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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, Sore 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.

ONE SHEEP MINUTE DIP



Dipolene

Dipolene, the great one minute sheep dip, costs but one cent for each sheep dipped. A genuine coal tar preparation so effective it can be diluted one part to one hundred of water. A true germicide and deodorizer that does not discolor the wool. Free from lime, sulphur, tobacco or poisonous and destructive ingredients. Send for a

FREE SAMPLE BOTTLE

and test it in your own dipping tank. There will be no guesswork about its merit then. Fine for scab, ticks, lice, foot rot in sheep; mange, ringworms, surflet, eczema, fevers in cattle and horses; for cholera, epizootic, etc., in hogs. Non-poisonous—perfectly harmless. Send for free booklet, "Dipping for Dollars". Contains a true-to-life story about Dipolene and the dollars it saves.

Marshall Oil Company, Box 14, Marshalltown, Ia.

The above improved Dipping Tank sold only by the makers of Dipolene. Circular free.

CAR-SUL

The Disinfectant Dip That is Guaranteed.

Stronger and more efficient than any other. Absolutely harmless. Does not gum the hair, crack the skin, or injure the eyes. Kills all lice and vermin. Cures scurvy, mange and all skin diseases. Heals all cuts, wounds, galls and sores. For hogs, cattle, sheep, young stock, poultry and general household use it has no equal.

Send For Free Book

on care of hogs and other live-stock. If your dealer does not keep Car-Sul, do not take an imitation but send to us direct.

Trial gallon \$1.50, express paid; 5 gallon can \$6.00, freight paid.

Moore Chemical & Mfg. Co.

Originators of Dipping Tanks. 1501 Genesee St., Kansas City, Mo.

IMMUNE HOGS

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

ROBERT RIDGEWAY, Box K Amboy, Ind.

LUMP JAW.

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

Chas. E. Bartlett, Columbus, Kans.

Observation Cafe Cars now in service on Wabash day trains between Kansas City and St. Louis, both directions and on Wabash New York Fast Mail train No. 8.

qualities, and which are sufficiently uniform to sell as pedigreed hogs for pedigreed breeding and upgrading purposes.

It is plainly evident that organized effort must be brought to bear in some way for the general improvement of stock.

State laws may be inaugurated, county cooperative associations may be organized and inspectors appointed for each particular breed and purpose of breeding, whose duty it is to see that all rules and laws of the association are enforced and to keep a record of performances, prepotency, and results obtained from different matings; in short, to specify a complete working pedigree from which logical conclusions can be deduced, and from which laws can be formulated, barring personality or individuality, which is the great obstacle in cooperation. If such a system can be carried out, it would be of inestimable value in the future. The investment would undoubtedly be great at first, but the interest would be ten-fold in the future.

The Big Kansas City Sale and Show.

The Herefords in the Kansas City show and sale, which will be held at the fine stock pavilion on April 11-14, 1905, are not numerous but of such quality that they will be worth a long trip to see. Benton Gabbert & Son, Dearborn, Mo., have reserved the tops of their produce for this sale. Columbus 60th is a full brother to Columbus 17th that sold to Mr. Rockefeller for \$5,000 and won such recognition at the International at Chicago. Two of his brothers are also included and the blood of old Columbus, sire and grandsire of the champions, Dale and Perfection, is intensified in these three bulls. There will also be several Columbus helpers of great merit in the sale. J. W. Lenon, Independence, Mo., sells a number of the grandsons and granddaughters of Corrector. Makin Bros., Lees Summit, Mo., catalogue their heard bull, Capitol by Corrector out of a Gudgeall & Simpson dam. J. S. Lancaster & Son, Liberty, Mo., consign a heifer by Weston Stamp 3d out of a Shadeland Dean dam. The Herefords will be sold on April 14.

The Galloways in this sale will be disposed of on April 11. C. N. Moody, of Atlanta, Mo., will draw from his prize-winning herd ten head of approved type. N. P. Clarke, St. Cloud, Minn., will sell sons of Imp. Worthy 3d and cows and helpers in calf to him. W. G. McCandless, Cottonwood Falls, Kans., and Claude Atterburg, Atlanta, Mo., are selling strong, vigorous young bulls, ready for service.

The Shorthorn sale will occur on April 12, and will include two bulls and two helpers of the Cruickshank Secret and Duchess of Gloster families consigned by D. T. Bronaugh & Son, Nashua, Mo. Johnson & Gates, LaPlata, Mo., consign a Cruickshank bull and Rose of Sharon cow. N. P. Clarke, St. Cloud, Minn., will sell Bapton Royal, a brother of the champion at the recent Chicago show. McLain Bros., Warrensburg, Mo., offer Lord Victor, by Victorious, and some helpers by Lord Victor. C. H. McCallister, Carmen, Okla., sells some Scotch and Bates cattle, with which he has been winning in the Southwest. F. M. Gifford, Wakefield, Kans., sells a tested Cruickshank sire by Prince of Orange. H. O. Linhardt, Lehigh, Mo., Daniel Donahue, Appleton City, Mo., and S. J. Maddox, Brookfield, Mo., have other good ones to offer.

The Aberdeen-Angus will be sold on April 13, and will include a number of World's Fair prize-winners. W. J. Turpin, Carrollton, Mo., who won more money than any other Missouri exhibitor, sells the animals at Kansas City that brought him prizes at St. Louis. Berry Lucas, Hamilton, Mo., catalogues richly bred Coquettes and Noregays with which he won prizes at St. Louis. Elm Park Cattle Co., Harris, Mo., contribute some St. Louis prize-winners, and C. H. Gardner, Blandinsville, Ill., contributes five winners from his famous herd. R. S. Williams, Liberty, Mo.; E. E. Axline, Oak Grove, Mo.; M. C. Stone, Milan, Mo.; L. S. Crookshanks, Brownings, Mo.; J. B. Withers, Missouri City, Mo., and J. H. Rea & Son, Carrollton, Mo., will be the other contributors.

Marshall County Hereford Sale.

The Hereford breeders of Marshall County, Kansas, held their regular spring sale at Blue Rapids, March 30. Quite a number of breeders from a distance were present and materially helped the sale. Thirty-one head were sold averaging \$70.30 each. Geo. Briggs, of Coldwater, Kans., was a good buyer of bulls for his Comanche County ranch. Mr. Briggs is a good judge of cattle and got five of the best bulls of the sale. Ed. Rice, of Vine, Kans., was another good buyer. He topped the sale on a May's Keep On helper of Miss Goodwin's breeding at \$130. Geo. E. Darwin, Virginia, Neb., got the herd bull, Boatman, for \$110.

The Vermillion Hereford Company had the largest consignment. The company is reducing its herd preparatory to moving to its new ranch five miles from its present location. Mr. E. E. Woodman, the secretary of the company, says they have retained a number of their best cows and a choice lot of Boatman helpers for future breeding. Mr. Woodman deserves much credit not only for the success of his company but for the success of the Marshall County Hereford sales. The county association will hold its annual meeting April 12.

Local bull-buyers were notably absent. In fact only one or two animals in the entire sale were announced to stay in Blue Rapids. The fact that this section is so well supplied with Boatman and other Anxiety breeding prevented home competition on the old bull and gave Mr. Darwin a chance to buy him cheap. Among

the leading buyers not already mentioned were: W. W. Spencer, Mankato, Kans.; E. Young, Brantford, Kans.; Fred Kendall, Waterville, Kans.; H. T. Graham, Holton, Kans.; G. B. Walker, Frankfort, Kans.; L. Kunze, Randolph, Kans.; C. R. Nelson, Waterville, Kans. Colonels Sparks, Brady and Gordon were the auctioneers.

The sale was held in the midst of a heavy wind-storm which destroyed the sale tent and rendered the work of the auctioneers much more difficult.

Gossip About Stock.

They sell Shetlands in bunches like sheep, but not at the prices usually current for sheep. A good Shetland pony is worth about as much as a good horse, and when you get into the show class the same relative value still holds in good degree. Among the extensive handlers of Shetlands is G. A. Watkins, of Detroit, who sold not long since seventy-one ponies in two bunches, one lot of twenty-nine to Chas. E. Bunn, Peoria, Ill., and another lot of forty-two to Weir Bros.

Garrett Hurst, breeder of Angus cattle and Percheron horses, Peck, Kans., reports a number of sales, which he says the Kansas Farmer helped to make. He reports sales of bulls to W. D. Howell, Peck; N. C. Faulkner, Newton; C. E. Brown, Caldwell; Daniel Haslin, Sand Creek, Okla.; and seven head of Angus, including a bull, to Clark B. Coss, Helzer. The fine black Percheron stallion, Hero 24923, was secured by James McHenry, Auline, Kans., said to be one of the finest stallions in Sumner County, and will prove a valuable sire for that part of Kansas.

Successful vaccination against Blackleg has been extensively practiced in this country for over ten years or ever since the Pasteur Vaccine Co., Ltd., Chicago, New York, San Francisco, etc., introduced the system. They are still the only ones supplying the genuine Pasteur Vaccine, that is, the kind made by the discoverers, and to get this it is important to specify "Pasteur" when ordering. You should now vaccinate the fall calves and revaccinate the young animals treated last fall, and the "Double" vaccine should be used on choice stock. "Blacklegine" is the trade-mark name of Pasteur Vaccine, ready for use and is the most convenient, effective, and economical, there-

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is the very best paint for a farm house or any building exposed to the elements. It combines with the oil and protects the surface covered as NO other paint can. It goes farther and lasts longer than any other paint. Any man can mix and apply Pure White Lead, but a practical painter's skill is worth more than it costs.

BOOKLET FREE: "What Paint and Why" tells the truth about house-paint and shows how to make sure of strict PURITY in White Lead. Sent free from any of our branches.

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Largest makers of White Lead in the world

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Forrester Automatic Gate SELF-OPENING, ALL STEEL.

Saves enough time in a year to pay for itself. Special prices in new territory.

P. C. FORRESTER, Patentee and Mfr., Streator, Ill.



DIAMOND JOE'S BIG WHITE
YIELDS FROM 80 TO 150 BUSHELS PER ACRE

THE EARLIEST MATURING BIG EARED CORN IN THE WORLD

Is the Greatest Yielding Corn Known
SEED CORN, \$1.00 TO \$1.50 PER BUSHEL

Fifty years' practical experience on the farm in the best corn district in the world; twenty years devoted to the growing of pure varieties of seed corn as a specialty, enables us to be of benefit to every farmer who contemplates buying seed the coming season. All our seed crops were grown from the highest type possible to produce under the most scientific methods known for producing thoroughbred seed corn. Our varieties consist of "DIAMOND JOE'S 100 DAY," "YELLOW DENT," "PRIDE OF NISHNA," "LEGAL TENDER," "EARLY YELLOW ROSE," all originated here in the Nishna Valley of Southwestern Iowa. We grow and have the well-known "IOWA SILVER MINE" in its original purity, "IMPERIAL WHITE," "DIAMOND JOE'S BIG WHITE," the most uniform corn in existence, and outyielding every other sort of any variety, kind or color. We also grow a number of the earliest varieties of yellow and white dent there is in existence, including "IOWA GOLD MINE," "FARMERS' RELIANCE," "EARLY OHIO YELLOW DENT," "QUEEN OF NISHNA," an extra early sort, maturing in eighty days. All butt and tip ends taken off before shelling. LARGE ILLUSTRATED CATALOG of Farm, Garden and Flower Seeds mailed FREE to everyone who mentions this paper. A book worth having. Write for it today. Always address

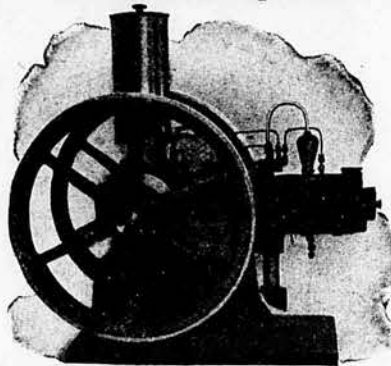
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1 to 75 Horsepower

Operated by

KEROSENE OIL, FUEL OIL OR CRUDE OIL.



Simplest, safest, most reliable, and most economical Power Engines for the Mill, Factory or Farm on the market. Oil Engines and Generators for electric lighting and power. Oil Engines and direct coupled centrifugal and Triplex Pump for irrigating purposes. Oil Engines and Geared Hoists and Air Compressors.

Portable Power Engines

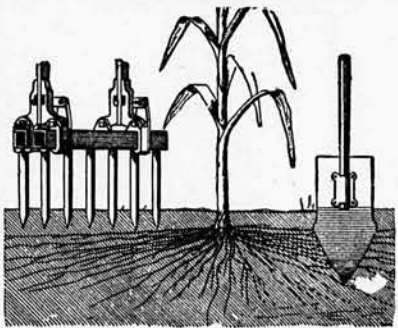
August Mietz Foundry and Machine Works
Dept 28, 128-138 Mott St., New York.

Send for catalogue. Agents Wanted.

8 to 10 Bushels More Corn to the Acre

If You Use the Kirk Weeder.

Shallow cultivation is endorsed by all the Experimental Stations. If it were not better than the old way they would not endorse it.



Oakville Iowa, March 5, 1905.

Mr. G. F. Moyer, Des Moines, Iowa.
Dear Sir: You wanted to know about that Kirk Weeder. I think it is all right. I used it on 25 acres, after I had laid it by. I left 10 rows and run it over all the rest, and the ten rows I left did not get near so big as the rest. I think where I used the weeder it made 5 bushels more to the acre, so it paid big. I think it made me \$2 on the acre.

Yours truly, T. L. MOYER.

SPECIAL OFFER NO. 16—For next 30 days we will make special introductory prices to readers of the Kansas Farmer. Write at once for full particulars and how to grow big crops of corn.

KIRK MFG. COMPANY, - Des Moines, Iowa.

fore the best obtainable. Write the Pastur Company as above for their special literature on this subject.

A. G. Dorr, proprietor of the Osage Valley Herd, Osage City, Kans., who is raising a very high quality of Duroc-Jerseys of the most popular strains, puts up for sale some sows that he says are very fine, and in a thrifty condition. They are not loaded with fat but just right to do the buyers some good. They are sired by Orion Mc and Osage Prince. They are very heavy-boned, have good back, feet and color. He proposes to sell them at a special low price to close them out, as he must have room for spring litters which are coming along now. He also has a lot of winter pigs of both sexes for sale. Write him for special prices and he will undertake to please you.

Newton Bros., Whiting, Kans., says: "We have forty of the best Duroc February pigs we ever owned, ten sows due to farrow on or before May 25. Please notice that stock sold to breeders that hold public sales from our herd always sell at the top. At C. E. Pratt's bred sow sale two years ago a gilt Pratt bought of us for \$29 as a yearling sold in his sale at \$140. Then, again, at the Combination Sale held at Blackwell, Okla., March 3, 1905, four good breeders contributing, some more of this good blood and individuality from our breeding topped the sale. Don't forget that we will be in line this fall; also remember that we breed and raise the hogs and the other fellows reap the big profit. Try us."

McLaughlin Bros., horse importers, write: "We are just in receipt of a letter from Mr. James B. McLaughlin as follows: 'Have succeeded by very much persuasion on my part in getting all the best breeders, Avelline, the three Perriots, Tacheau, Ricard, Haye and others to sell me a lot of their best horses to be delivered next Tuesday at Havre. Have secured thirty-six Percherons and six Belgians. Am confident that you will call them a better average lot than I ever brought over even in the summer after the big shows when I had all the winners. They are a lot of good ones.' These horses are due to arrive in New York Monday, April 3, and will be in Columbus the following day."

Attractive Cash Prizes.

We advise our readers to look over very carefully the liberal offer made by the Homemaker Publishing Co., on page 369 of this paper. The Homemaker is a bright, up-to-date and newsy story paper, which is read with interest by every member of the family and alone is worth more than the subscription price, besides giving such valuable prizes.

This is not a guessing contest—it is a test of ability and brains: the prizes go to the ones sending the nearest correct count, and in case of a tie, to the one sending the best plan. The prizes will be awarded by an impartial committee and you have as good a chance as any one to win. The surest way to take advantage of this opportunity is to get your answers in at once and we hope to see a number of these prizes come to readers of our paper.

Iowa Agricultural College.

"We have used ZENOLEUM on the college farm during the past two years, and have found it to give excellent satisfaction on all lines. We have used it for both sheep- and hog-dippings purposes; also as a disinfectant in our judging pavilion."

"Every farmer should keep a supply of some disinfectant on hand. This is especially important on farms where stock is being purchased and sold from time to time. On the college farm we never think of bringing any animals from outside farms without fully disinfecting them. By so doing we have little or no trouble from disease."

"We are certainly using a great deal of ZENOLEUM these days. We had an outbreak of hog-cholera a few weeks ago, but now have the matter well in hand, and we attribute our success in no small way to the use of ZENOLEUM."

W. J. KENNEDY,

Professor of Animal Husbandry.

Publisher's Paragraphs.

P. C. Forrester, Streator, Ill., advertises in our columns his automatic gate which is noted as anti-freezing, self-opening, all steel. Its great merit secured the award of a medal at the St. Louis Exposition last season. Considering the quality and excellence, it is offered by the manufacturer named above at very reasonable prices. Our readers interested should write to the address above.

In anticipation of the early opening of the Utah Indian Reservation in Utah, the Denver & Rio Grande Railroad Company has just issued a pamphlet descriptive of the Reservation and its resources. A very valuable map showing the new country to be opened up and the various routes by which the Reservation can be reached is now published for the first time. For further information address, S. K. Hooper, G. P. A., Denver, Col.

We direct special attention to the Mitz & Weiss Oil Engines, which are operated by kerosene-oil, fuel, or crude oil, which is believed to be the simplest and most economical power engine for the mill, factory, or farm on the market. Look up their ad in this issue and write them for further particulars.

One of the banes of human existence in all parts of the world is rheumatism. For ages physicians have sought to determine the nature of the disease and to discover a remedy for it. Many so-called specifics have been placed upon the market, but, thus far, none have seemed to be specifics for all cases. It has remained for a Kansas man to discover what really seems to be a cure for this dread disease and also for all other forms of uric acid poisoning. The Crippen Compound, advertised on page 366, has had a wonderful success from its first appearance on the market. It is a highly concentrated remedy and is taken by the drop, but each drop seems to have a power for counteracting the poison which causes rheumatism. Write the Crippen Medicine Co., 208 North Main St., Wichita, Kans., for full information and mention the Kansas Farmer.



The Bone and Sinew of the Farm

Unlike most animals, the horse is a beast of burden. The amount of work he performs and the spirit in which he performs it, depend largely upon the ability of his system to appropriate his dinner.

Bone and muscle are required, and if he is unable to assimilate and appropriate the nitrogenous material which makes up bone and muscle a weakened and debilitated condition will soon be apparent.

DR. HESS STOCK FOOD

Contains the very essential tonics and laxatives that put the system to work and compel it to take care of the stuff fed. It is especially valuable for the development of calves and pigs at this season of the year. It prevents flatulence, indigestion and the like, whets up the appetite and assures perfect assimilation and rapid growth. It is not a condimental food, but a scientific stock tonic and laxative. It is the famous prescription of Dr. Hess (M.D., D.V.S.), and it owes its origin to his medical education and long practical stock experience.

5¢ per pound in 100 lb. sacks; 25 lb. pail, \$1.60. Smaller quantities a little higher. Small dose.

SOLD ON A WRITTEN GUARANTEE.

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

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

DR. HESS & CLARK, Ashland, Ohio.

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

Instant Louse Killer Kills Lice.

Forty Agricultural Colleges Use And Endorse Zenoleum.

There is not a manufacturer in any line in this country today who would not give almost anything within reason for such an endorsement. It isn't easy to get; that is why everybody wants it. When we began to manufacture ZENOLEUM we told the Experiment Station Directors that we would make a live-stock dip, germicide, insecticide and general disinfectant that would be so genuinely good and reliable they would willingly use and endorse it. They were anxious to secure something of this nature which was uniform, dependable, efficient and economical. We proved our good faith by making ZENOLEUM and the college authorities have proven our claims and shown their confidence by constantly using and recommending ZENOLEUM. In Zenoleum Bulletin 108 we give a list of these Agricultural College Experiment Stations and the endorsements of their Presidents, Directors, Professors of Animal Husbandry, Farm and Live Stock Superintendents, etc. Send for a copy of this Bulletin so you may read what they say and write to them yourself, if you so desire. As one who owns and breeds live stock, this is a matter of vital importance to you.

Wonderful Zenoleum. "Coal Tar Disinfectant and Dip." The Great Promoter of Animal Health.


One gallon of ZENOLEUM will be sent you, express prepaid for \$1.50 and it will make 100 gallons of reliable disinfectant solution. Try it for the animal troubles and ailments that are worrying your stock: use it as a disinfectant, germicide and insecticide; for mange, scurvy, ringworm, canker, scab; for removal of stomach and intestinal worms; to cure calf cholera, abortion of cattle, chicken cholera, scab in sheep, cattle mange or itch, etc. We are satisfied that if we can induce you to make the trial you will become more than enthusiastic about Zenoleum. In addition to every representation made above, Zenoleum is guaranteed to be non-poisonous—absolutely harmless for internal or external use. Neither injures skin, discolors wool or roughens the hair.

We ask you to take no chances. Read the Zenoleum guarantee. If Zenoleum is not all we say it is—or even what you think it ought to be—you get your money back. No argument. Just Money.

Most all druggists handle Zenoleum—if yours won't supply you, we will. The prices of Zenoleum are: One gallon, \$1.50, express paid; two gallons, \$3.00, express paid; three gallons, \$4.50, express paid; and five gallons, \$6.25, freight paid. Send to us for booklets, "Veterinary Adviser," "Chicken Chat" and "Piggies' Troubles." Free.

ZENNER DISINFECTANT CO., 61 Bates Street, Detroit, Michigan.

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A Sure Money Maker On the Farm

When you buy a Cream Separator you cheat yourself if you don't get the machine that makes and saves the most money for you. Cream, repairs and oil—all represent money.

The United States Cream Separator

holds the world's record for clean skimming—saves cream every day that other separators lose.

Substantial and simple—extremely durable. No joints to work loose, no ratchet pin to break off, no exposed gears to be injured—no repairs.

Perfect adjustment of working parts—no oil wasted.

You can't make your cows pay you as they should without a U. S. Cream Separator. Write for free illustrated catalogue to-day.

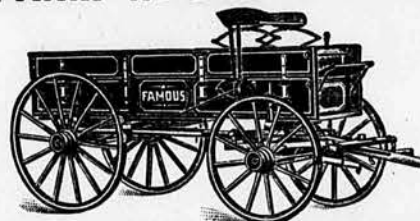
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FARM WAGON OFFER.



FOR \$36.90 WE SELL THE HIGHEST GRADE HEAVY TWO-HORSE FARM WAGON MADE, complete with double box, drop tongue, spring seat, neckyoke and doubletrees. EVERY WAGON COVERED BY OUR BINDING GUARANTEE.

FOR FREE FARM WAGON CATALOGUE with many illustrations of wagons, all parts, etc., full descriptions, guarantee free trial offer, for explanation why we can sell the best wagon made at about one-half the price others charge, for low freight rate and quick delivery explanation, for the most astonishingly liberal Farm Wagon Offer ever heard of, cut this ad out and send to us, or on a postal card say "Send me your Free Farm Wagon Catalogue," and get all by return mail free, postpaid.

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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.

G. H. DANA, 69 Main St., West Lebanon, N. H.

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FOR RAW FURS
To **McMILLAN FUR & WOOL CO.**
MINNEAPOLIS, MINN.
DEPT. 30

The Young Folks

CONDUCTED BY RUTH COWGILL.

The Meadow Lark.

Where skip the saucy breezes o'er the
tiny blades of grass,
To ruffle up the tidy green, and muss
things as they pass.
A stem of weed, a thistle stalk, a blade
of vagrant rye
Are there to bow and laugh with them
as they go romping by;
And out upon a bunch of grass, a-swing-
ing in the sun,
The meadow lark is laughing, too, and
thinks it heaps of fun.

He with the breeze and vagrant rye and
grass and stalk and weed,
Will frolic all the summer day upon the
open mead.

There is no hour he is not here, through
all the cheerful day—
And when the breezes quiet down, he
calls them back to play.
He swings from place to place and darts
above the waving grass,
And when the winds are blowing fierce,
he fights them as they pass!

He takes a strenuous love in life—the
open fields are his;
He feels that life is being free, and lives
because it is;
He must not pass like other game from
off the Western plains—
(God help the prairie dog!)—and so he
carols free and reigns
Supreme in field and Western vale, and
vies with breeze and grass,
And laughs with them thro' all the years,
the while the seasons pass.

—Clyde C. Adams.

Captain John Smith's Grave.

Dr. John Mustard, of Abilene, who
has spent two years studying in Lon-
don, tells the Abilene Reflector of the
last resting-place of Captain John
Smith, of Pocahontas fame. He says:
"There are in London many places
of especial interest to an American.
One of these is the Church of St. Sep-
ulchre, situated in the heart of the
city on the crowded Holborn Viaduct.
Thousands upon thousands of busy
London pedestrians hurry daily past
its portals in careless indifference to
the fact that within this gray old tem-
ple was laid to rest, many generations
ago, all that was mortal of that first
strenuous American, that man of the
sword, the sea, and letters, the discov-
erer of the Indian princess Pocahon-
tas, the empire-builder, the Governor
of Virginia, Admiral of New England,
and Christian gentleman, Captain
John Smith, of Virginia. Here the
doughty Christian warrior sleeps his
last sleep.

"At this season of the year, when
thousands of Kansas school children
are learning of this wonderful charac-
ter, it may be of interest to recount
his heroic deeds and many virtues.
This is done on a tablet of enduring
bronze, inserted in the south wall of
St. Sepulchre's, and he who enters
those hallowed precincts may read:

"To the living memory of his de-
ceased friend, Captain John Smith,
sometime Governor of Virginia, and
Admiral of New England, who depart-
ed this life the 21st of June, 1631. Ac-
cordamus, Vincere est Vivere.

"Here lyes one conquered that hath con-
quered Kings,
Subdued large Territories, and done
things
Which to the World impossible would
seem,
But that the Truth is held in more es-
teem,
Shall I report his former Service done
in honor of his God and Christendom?
How that he did divide from Pagans
three
Their Heads and Lives, Types of his
Chivalry.
For which great Service in that Cli-
mate done,
Brave Sigismundus, King of Hun-
garian,
Did give him as a Coat of Armes to
wear.
These Conquered Heads got by his
Sword and Spear,
Or shall I tell of his Adventures since
Done in Virginia, that large continent?
How that he subdued Kings unto his
Yoke
And made the Heathen flee, as Wind
doth Smoke;
And made their land, beine of so large
a Station,
An Habitation for our Christian Na-
tion.
Where God is Glorify'd, their Wants
supply'd;
Which else for Necessaries must have
dy'd.
But what avall his Conquests, now he
lyes
Interred in earth, a Prey to Worms
and Flies?
O! May his Soul in sweet Elysium
sleep,
Until the Keeper that all souls doth
Keep,
Return to Judgment, and that after
thence,
With Angels he may have his Recom-
pence."

"Americans will all accord a hearty
amen to this pious wish for the brave

Virginian, and pass out from the sanc-
tuary into the crowded street."

When Animals Go to School.

Little men and women who do not
like to go to school sometimes wish
that they were birds or kittens, so
that they might play all day and nev-
er have any lessons to do; but if they
could have their wish, and a fairy god-
mother were to give them, by a wave
of her wand, a coat of fur or feathers,
they would soon want to be boys and
girls again. For birds and kittens and
chickens and the children of bears
and lions and deer and all the lower
animals have to go to school, too, and
their schools are not nearly so pleas-
ant as those that open every year in
September. They never get any prizes,
but they get plenty of cuffs and
scratches and even bites.

The two things which the kittens
and chickens and baby lions and bears
have to learn at school are how to
take care of themselves so that they
will not be eaten up by other animals,
and how to get their living. The first
lesson which the mother partridge
teaches to her children is how to get
out of sight. When she sees anything
dangerous coming she says, in the
partridge language, "Run and hide,
children," and in a minute not a par-
tridge will be seen. The ground does
not open and swallow them up, and
they never run more than a few feet,
but they know so well how to hide
that eyes have to be very sharp in-
deed to find them.

"I have watched young partridges
run to cover at the call of their moth-
er a dozen times," said Earl Barnes,
in a recent lecture at the Normal Col-
lege, "but though I knew that they
were all about me within a space of
fifty yards, I never could find one of
them."

The partridge school can not be
seen every day, but any little man or
woman who lives in the country can
see the chickens going to school. The
mother hen goes to a great deal of
trouble to teach them how to get their
living. When she thinks they are old
enough she takes them with her to a
place where she expects to find worms
and then she begins to scratch, making
a great deal of fuss and fluttering
her wings so as to impress the thing
on the minds of her family. When
she finds the worm she does not pick
it up, but calls the chickens with a
sound which is never used, except in
school, and which means, "Come and
see what I get by this scratching." She
does not give the worm to the
first comer, but waits till they have
all answered her call. Then she steps
back and lets the chickens scramble
for the worm.

In the same way a cat teaches her
kittens how to catch mice. She does
not kill mice for her children to eat,
but brings home live mice and makes
her little ones catch them over again.

The school life of kittens and par-
tridges and chickens lasts only a few
weeks, but all animal schools are not
so short. Young animals sometimes
remain in subordination to their elders
for several years, and often have a
very hard time of it. Among deer an
old buck is frequently accompanied by
a young one, which he abuses in a
really shameful manner. The young
buck which corresponds exactly to
the "fags" in "Tom Brown at Rugby,"
has to go ahead in the case of danger,
and when the old buck wants to lie
down and rest the young one has to
act as a screen from the wind, and if
he makes any objection to any of
these things the old buck butts him
and kicks him and makes his life a
burden to him generally.—N. Y. Tri-
bune.

How Lead Pencils Are Made.

It rained one day while we were in
Keswick, and we went into one of its
two lead-pencil manufactories. Inside,
the floor was littered with reddish
shavings while the sides of the room
were piled high with big pieces of
beautiful red cedar wood from Florida.
The attendant showed us everything
about making a pencil. First, he took
a light-weight stick, perhaps two feet
long, three inches wide and one-sixth
of an inch thick, and put it through a
small machine; when it came out,
there were nine tiny grooves in it.

STOP! WOMEN,

AND CONSIDER THE

ALL-IMPORTANT

FACT



That in addressing Mrs. Pinkham you
are confiding your private ills to a woman
—a woman whose experience with wo-
man's diseases covers a great many years.
You can talk freely to a woman when it
is revolting to relate your private troubles
to a man—besides a man does not under-
stand—simply because he is a man.

Many women suffer in silence and drift along
from bad to worse, knowing full well that they
ought to have immediate assistance, but a natural
modesty impels them to shrink from exposing them-
selves to the questions and probably examinations of
even their family physician. It is unnecessary.
Without money or price you can consult a woman
whose knowledge from actual experience is great.

Mrs. Pinkham's Standing Invitation:

Women suffering from any form of female weak-
ness are invited to promptly communicate with Mrs.
Pinkham at Lynn, Mass. All letters are received,
opened, read and answered by women only. A
woman can freely talk of her private illness to a
woman; thus has been established the eternal
confidence between Mrs. Pinkham and the women
of America which has never been broken. Out
of the vast volume of experience which she
has to draw from, it is more than possible
that she has gained the very knowledge
that will help your case. She asks noth-
ing in return except your good-will, and her
advice has relieved thousands. Surely any
woman, rich or poor, is very foolish if she
does not take advantage of this generous
offer of assistance. — Lydia E. Pinkham
Medicine Co., Lynn, Mass.

Following we publish two let-
ters from a woman who accep-
ted this invitation. Note the
result.

First letter.

"Dear Mrs. Pinkham:—
"For eight years I have suffered something
terrible every month with my periods. The
pains are excruciating and I can hardly stand
them. My doctor says I have ovarian and
womb trouble, and I must go through an op-
eration if I want to get well. I do not want
to submit to it if I can possibly help it.
Please tell me what to do. I hope you can
relieve me."—Mrs. Mary Dimmick, 59th and E.
Capitol Sts., Benning P.O., Washington, D.C.

Second letter.

"Dear Mrs. Pinkham:—
"After following carefully your advice,
and taking Lydia E. Pinkham's Vegetable
Compound, I am very anxious to send you
my testimonial, that others may know their
value and what you have done for me.

"As you know, I wrote you that my doctor
said I must have an operation or I could not
live. I then wrote you, telling you my ail-
ments. I followed your advice and am en-
tirely well. I can walk miles without an
ache or a pain, and I owe my life to you and
to Lydia E. Pinkham's Vegetable Compound.
I wish every suffering woman would read
this testimonial and realize the value of writ-
ing to you and your remedy."—Mrs. Mary
Dimmick, 59th and E. Capitol Streets, Ben-
ning P. O., Washington, D. C.

When a medicine has been successful
in restoring to health so many women
whose testimony is so unquestionable,
you cannot well say, without trying it,
"I do not believe it will help me." If
you are ill, don't hesitate to get a bot-
tle of Lydia E. Pinkham's Vegetable
Compound at once, and write Mrs. Pink-
ham, Lynn, Mass., for special advice—
it is free and always helpful.

\$3

PRICE EXPLAINED.

—AT FROM—
\$3.00 to \$5.00
Bicycles similar to the bicycle
hereon have been widely
advertised by other houses.

HOW BICYCLES CAN BE
OFFERED AT THESE PRICES
and why we can sell the high-
est grade new 1905 Model
bicycles in gent's, ladies' and
children's sizes, at much lower
prices than any other house is all explained in our new, big, free Special Bicycle Catalogue.
Cut this advertisement out and send to us and you will receive by return mail, free, post-
paid, our new Special Bicycle Catalogue, fully describing our complete line of new 1905
gent's, ladies' and children's bicycles, all shown in large, handsome half-tone illustrations;
everything in bicycle sundries and supplies at the lowest prices ever known. Tires, coaster
brakes, saddles, pedals, etc., at less than one-half the prices usually asked.

WITH THE BIG FREE CATALOGUE you will receive the most liberal bicycle
offer ever heard of, a new and marvel-
ous proposition. Why we can sell at much lower prices than all others will be fully ex-
plained. Our system of shipping the day we receive your order and our low freight and
express rate will be explained. You will get our free trial offer, safe and prompt delivery guarantee, our bind-
ing guarantee, OUR LATEST PROPOSITION. Everything will go to you by return mail, free, postpaid.

—MAKE \$100.00 IN 60 DAYS SELLING OUR BICYCLES.

This can be easily done in any locality by merely devoting part of your spare time. The bicycle offer we will send
you is really an astonishingly liberal one. Don't fail to cut this advertisement out and send to us, or on a postal card
say, "Send me your new bicycle offer," and get everything that we will send you free by mail, postpaid. Address.

SEARS, ROEBUCK & CO., CHICAGO, ILL.

Then he took a similar piece of wood,
already grooved, and fitting the leads
into the little grooves in one piece, he
glued both slabs of wood together, like
long, wooden sandwiches. After that
he put the whole thing through a sort
of lathe, and it came out with nine cir-
cular humps on one side. He turned
it over and put it through again, and
this time out came the nine pencils.
The next machine planed them
smooth, and the last cut them off into
proper lengths. Then came the polish-
ing and finishing, done by women.

There were also lathes for turning
out penholders, darning-balls, glove-
menders, jumping-rope handles, walk-
ing sticks, and ever so many other
things. The most interesting part

was that they would mark a pencil or
penholder with any name we gave
them, in gold. First, the man fitted
the desired combination of letters into
a metal typeholder, and screwed it up
tight. There was a long tunnel-shaped
hole in the top of this, through which
he put the middle tine of a big three-
tined fork. This heated the typehold-
er, for the outside tines were gas-pipes
with little jets at short intervals, and
they heated the middle tine, which
was really a steel rod. Then he mois-
tened the pencil and rolled it in the
gold dust (bronze?) placed it in an
iron groove and stamped it with the
now well-heated type. He worked
very fast, and it was very pleasant to
watch him.—Selected.

For the Little Ones

The Dog.

The dog's a funny animal,
Domesticated kind,
The while he wears his teeth before
He wears his smile behind;
This seems quite paradoxical,
Quite waggish—you won't fall
To note how'er a canine's smile
Is just a wagging tail.

I used to know a little dog
Who smiled on me each night,
When I returned from my day's work
His tail wagged with delight;
He was a joyous, happy dog—
I chronicle with pain
The fact he lost his tail one day;
He never smiled again.

Oh, children, all be good to dogs,
And to my warning bark;
Don't twist their tails nor drown their
pups,
'Tis wrong to wreck a bark;
Don't look a big dog in the eye
(Your courage well might fall);
To learn if he thinks well of you
Watch if he wags his tail.

—Houston Post.

Washing a Pig's Face.

Did you ever see a pig's face washed? I did, and I would like to tell you about it, if you care to hear it.

Last spring I visited some people on a farm in Northern Illinois. Years ago I boarded with them when I taught in the little schoolhouse on the corner. These people kept a very fine lawn, but as one of the old couple is dead and a tenant works the place, and lives in part of the house, I was not surprised to see a little pig running around the front door.

While removing my wraps I noticed the "grunter" had come in and was running around, much at home. The old lady's niece, who is caring for her, seeing I noticed the other guest, said: "Oh, that's our pet pig. I'll tell you about Mr. Piggie after awhile."

Dinner was soon served, and after the meal was over, the niece began to scrape the plates, saying: "Now I must feed the pig. The little fellow was the only one of the litter which lived. The mother wouldn't own it, and our tenant, who owns them all, put him into a pen with another pig family. That mother did not care for an adopted child so he was forced to—squeal."

"Our tenant's wife brought him into the house and fed him cow's milk from a spoon. After a few days he was let out into the yard and when he grew hungry he left his pig cousins and slipped into the house. Soon he was able to eat such food as I am picking up for him now."

Having fed him, at which ceremony he showed he was a "pig" indeed, she turned to me and said:

"Now I must wash his face. You see, he goes out among the other little pigs, who are not as well cared for as he, and when they smell the food on his chops they proceed to sample him, and have bit him so his face is quite sore. If I wash his face he escapes such persecution."

So she put Mr. Piggie under her arm, and holding him over a wash basin, she washed his little snout, and then taking him to the door set him out until he should be in want of another meal.

On my return I told this story to my own children and thought you would like to hear it.—Selected.

A Queer Question.

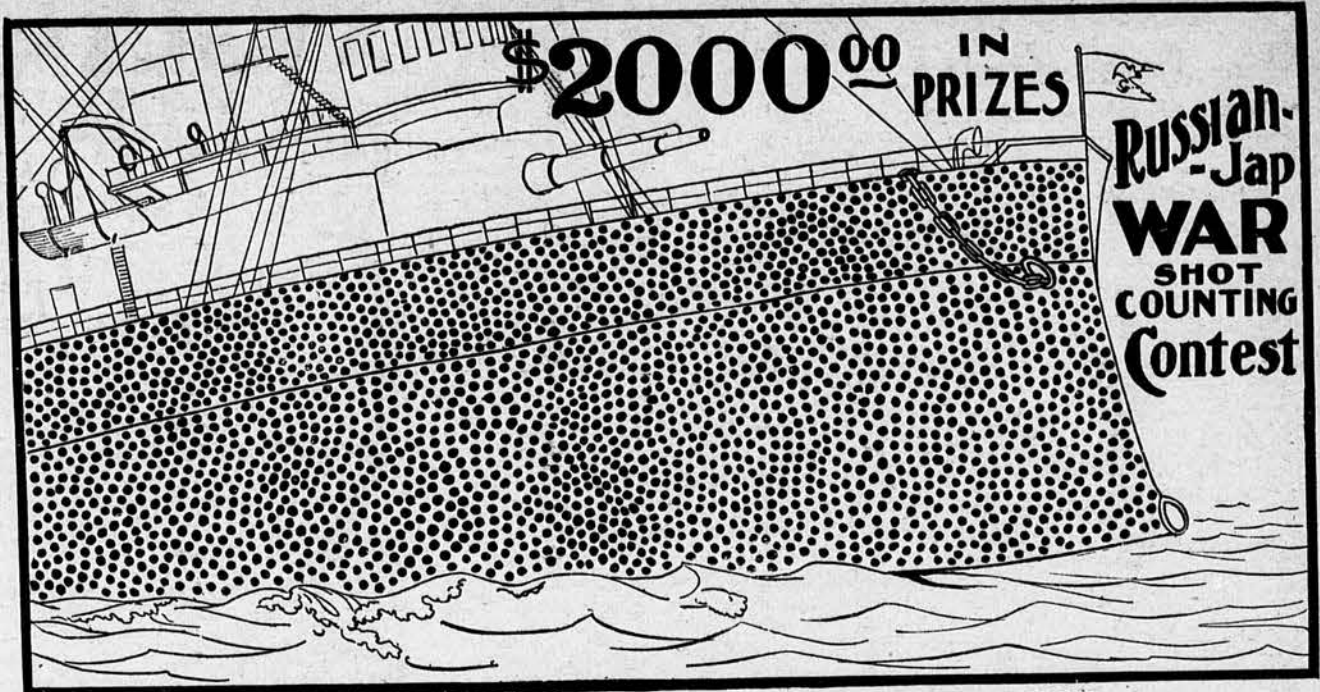
Prof. Leopold Barisen, in charge of the great X-ray machine in the Educational Building at the St. Louis Fair, naturally was called upon to answer innumerable strange questions.

Professor Barisen recounted the other afternoon the odd queries about X-rays that some boys had put to him. "I was rather in the position," he said, "of a Harvard instructor, who was lecturing on oxygen."

"Oxygen," the instructor said, "is essential to all animal existence; there could be no life without it; and yet, strange to say, it was discovered only a century ago."

"What did they do then," a student asked, "before it was discovered, sir?"

The giraffe is the only animal which is unable to swim. It can't because of its long neck.



HOW MANY HOLES IN THE BATTLESHIP?

THE HOMEMAKER will give to those who can count the shell holes in this Battleship correctly or nearest correctly a valuable list of Prizes. IF YOU COUNT AND PLAN YOU MAY WIN

This is not a lottery but a problem. The contest consists of counting the SHELL HOLES in the battleship. Every dot counts. Do not miss any. There are no shell holes below the water line. All of them are plainly seen. All are shown on this side of the Battleship. There is no deception or catch about this contest whatsoever. If you can count the holes or dots correctly and give a good plan of counting them YOU SHOULD WIN. You stand as good a chance as any one of winning. It is worth trying.

The list of prizes is large. They are worth working for. You have a large number of chances. You are as likely as anybody to get first, but if you don't get first Prize there are lots of other prizes worth having. It all depends upon you. IF YOU CAN COUNT AND THINK UP A GOOD PLAN YOU ARE LIKELY TO WIN.

Do not fail to get counts in AT ONCE because we offer an EXTRA CASH prize for early counts as follows: \$50.00 CASH EXTRA PRIZE to the person sending in the best count or plan by April 30th, now remember, if you send best count or plan before April 30, you get \$50.00 extra which is IN ADDITION to the regular list of \$9 prizes.

DOUBLE EXTRA PRIZE: We believe everybody should have three counts so they can have one each side of what they think is correct to be more sure to hit it. To encourage this we will give another \$50.00 extra to winners of 1st Prizes if they have three counts. Remember if you have one count you get 1st prize only, but if you have three counts you get \$50.00 extra.

CONDITIONS OF THIS CONTEST: 50 cents pays for one full year's subscription to THE HOMEMAKER and entitles you to one free count; \$1.00 pays for two years and entitles you to three counts and makes you eligible for the special \$50.00 Prize.

AWARDS will be made as follows: The person giving correct or nearest correct count will get first prize. Next nearest correct, second prize, etc. In case of a tie for any prize it will be awarded to the person giving best plan for counting the shell holes. In the event more than one person should submit the same plan and this was considered the best plan by the judges, each person so tying will be asked to tell in 50 words how best to improve THE HOMEMAKER. The one making best suggestions will be awarded first prize, next best next, etc.

JUDGES. The awarding of the prizes in this contest will be entirely in the hands of a committee of three disinterested judges as follows: Rev. Dean Duffy of the Wabash Ave., Episcopal Church, 3417 Wabash Ave., Chicago, Dr. Chas. C. Smith, M. D. & D. S., 1664 North Clark St., Chicago, and Judge Willis Melville, Grossdale, Ill. The reputation and standing of these three professional men is irreproachable and absolutely insures the honest and fair distribution of the prizes. MOREOVER, no one living in Chicago or anyone connected in any way, shape or manner with THE HOMEMAKER or our publishing house will be permitted to even participate in this contest. We are bound that our contest must be absolutely fair.

OUR FINANCIAL RESPONSIBILITY as to whether we are abundantly able to do as we say and distribute the Prizes offered, we can refer you to any firm in Chicago. If you have some friend or relation in Chicago have them look us up. We can also refer to the publishers of this paper, to any of the large Mercantile Agencies of America. We are an old established Publishing House, incorporated under the laws of the State of Illinois for \$10,000.00. The total number of readers of our paper number 3,700,000. We will also state that we have distributed over \$10,000.00 in Prizes during the past year. Our offer will be carried out to the letter. This contest closes June 30th, 1905, but get your counts in early.

READ THIS CAREFULLY

See extra \$50.00 Prize offered to early counters before April 30th. Anybody having 3 counts entered may enter additional counts at 25c each. Be careful to give your plan of counting, as the best plan used will decide all ties. ANSWERS FROM PEOPLE LIVING IN CHICAGO POSITIVELY NOT ACCEPTED. NO COUNTS ACCEPTED WITHOUT SUBSCRIPTION. Do not delay. Get your counts in early. See extra \$50.00 Prizes for early answers and to those having 3 counts registered. REMEMBER 50 cents pays for one year's subscription and one count free and \$1.00 pays a two year subscription and three counts. Cut out and send subscription on blank below. Give your counts and plans on a separate sheet, with your name and address plainly written. Enclose all in the same envelope and address as follows: THE HOMEMAKER, Contest Dept. 286 63-69 Washington St., Chicago.

SUBSCRIPTION BLANK.

Publishers of THE HOMEMAKER, Chicago.

I enclose \$.....for subscription to THE HOMEMAKER foryear. Commence my subscription with the next issue and send Magazine to the following address:

NAME.....

P. O.STATE.....

P. O. BOX, R. F. D., or STREET.....

Address all letters, subscriptions and counts to

THE HOMEMAKER, Contest Dept.

THOSE WHO HAVE WON BEFORE
We have distributed over \$10,000.00 in prizes during the past year. We publish as follows the names and addresses of a few only of the lucky persons who have won in our previous contests.



Mrs. Alva E. Lautenschlager, Carleton, Mich. Won \$500 Piano.



Mrs. A. B. Campbell, Jefferson, Iowa. Won \$150.00 Cash Prize.



Mr. Bertie E. Thayer, Westboro, Mass. Won \$50.00 Cash Prize.



Wm. N. Atkins, Suspension Bridge, N. Y. Won Gold Watch & Chain.

B. E. Thayer, Westboro, Mass., \$50.00;
J. B. Gardner, Atlantic, Iowa, \$50.00;
Mrs. Jennie Smith, Edon, Ohio, \$25.00;
E. B. Crockett, So. Paris, Maine, \$20.00;
John R. Benson, Mt. Morris, Mich., \$15.00;
Geo. O. Price, Oregon, Mo., \$10.00;
Miss Alva E. Lautenschlager, Carleton, Mich., \$500 Piano; Mrs. A. B. Campbell, Jefferson, Iowa, \$150.00; Jas. H. Evans, New Orleans, La., \$50.00; Daniel R. Bush, Camden, N. J., diamond ring; Wm. N. Atkins, Suspension Bridge, N. Y., gold watch and chain; Wm. Carr, Bloomington, Ark., \$25.00; A. Lee Boyd, Bristow, Ind. Ter., \$100.00; Mrs. Becca Andrews Murray, Box 164, Kansas City, Kans., \$50.00; Harry R. Shaul, Ladore, Iowa, \$10.00; Felipe S. Salazar, St. Johns, Ariz., \$10.00; Wm. H. Jackson, 90 Stuyvesant Ave., Arlington, N. J., \$10.00; Mrs. F. O. Ever, Bloomsburg, Pa., \$10.00; Mrs. R. D. Woodworth, Geneva, Ohio, \$10.00; Wm. Batson, Madison, Ohio, \$16.66; Zona Ashford, Ashford, Wash., \$16.66; J. O. Hoover, Chillicothe, Ohio, \$16.66; Edmund Currier, Gardner, Mass., \$16.66; Mrs. M. O. Womack, Hayford, Calif.

These and many other prizes have been distributed by us all during the past year. If you doubt our honesty in the least or the fact that our contests are conducted absolutely fairly, you can write any of the persons whose name and address we give above and ask them to vouch for us. If they did not receive the prizes Won Gold Watch & Chain. We can also furnish you the names of hundreds of our other prize winners, if you desire them.

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.



You Get Your Money's Worth

A Trip to California

Figure out the distance and see if it isn't worth the price. From St. Louis, \$30; Springfield, Mo., \$27.25; proportionate rates from other places. Tickets sold March 1 to May 15, and they are good in Tourist Sleepers.

Ask A. HILTON, G. P. A.
St. Louis, Mo.

The Home Circle

CONDUCTED BY RUTH COWGILL.

The Wayside Flower.

A fair little flower grew out of the sod,
In the hush of a summer day.
The light on its face was the smile of
God
That brightened the lonely way.

It whispered of hope when the hour was
lone,
It told of a patience deep.
As it bided its time 'twixt the sod and the
stone,
Then sank in eternal sleep.

It told of the rest awaiting each one
When the fret and the hurry are o'er,
It knew all the joy of the Father's "well
done,"
Wafted soft from the echoless shore.

It lived its sweet life and returned to
God,
Who gave it its place on earth—
A vision of beauty—the soul of the clod
His love had called into birth.

And He who created that blossom so fair,
And appointed its place to grow,
He holds us each one deep, deep in His
care
And plans all the way we go.

—Florence Shaw Kellogg.

The Benefits of Example.

MRS. W. A. JOHNSTON, BEFORE SHAWNEE
COUNTY HORTICULTURAL SOCIETY.

I was somewhat surprised when asked to write a paper to be read before the Shawnee County Horticultural Association, for my experience in horticultural lines, as I had always defined them, had been that of enjoying the fruits of other people's labor; but after consulting with some of my old friends (Daniel Webster included), I learned that horticulture not only pertained to fruit, but to flowers, shrubs, trees, and lawns, and thus to the home itself, where all women have vital interests. During this same conference, I learned that with changes in our conditions and conceptions, the language used in expressing them changes. Not only does our vocabulary grow, but words long used change their meaning. The word "forest," for instance, brings before most minds only a stretch of land covered with trees and brush; but the "forest reservations," that were provided for by Congress and have been established by our Presidents since Cleveland's time, include millions of acres of wind-swept prairies, as well as sandy desert, and "forestry" pertains not only to trees and vegetation, but to all birds, fish, game, waterways, soil, atmosphere and air. But the greatest relief during this research and study of words came, I think, when I learned that I could be an up-to-date evolutionist and yet hold my place as an orthodox Christian, not even losing caste in the Presbyterian church.

Are we not all evolutionists? I have come to think we are. No home-keeper, farmer or fruit-grower can afford not to be, for in its best meaning, the word is almost synonymous with that of good citizenship.

A number of years ago while living in Western Kansas, we often, during a drive, passed the premises of a farmer who lived in a one-roomed, box-shaped house, the pristine beauty of which had never been marred by paint or whitewash. The outbuildings were made of poles, which during a part of the year were covered with prairie hay, and for the rest of the time stood out like denuded skeletons. No tree or shrub obstructed the view or broke the weary waste of winter's cold or summer's heat. This was a familiar picture of farm life in Western Kansas in the early days, but it was usually the start—the molecule out of which was to be evolved the modern house, the comfortable quarters for stock and fowls, the gardens, orchards and shaded lawns. So, as year after year passed and no change came, except a more desolate appearance as the improvements on all the surrounding "claims" made it more marked, we came to refer to this place as the home of the "contented man"—the man who was not an evolutionist.

Kansas is undoubtedly indebted to the "wife's people" for the specimens of this class we have had, and of these, some—feline like—returned early to familiar haunts in the land that gave

them birth; so that, even in the pioneer days, the homes of the "contented man" were few and far between.

It is true, as noted, the shack, cabin or dugout in a treeless yard often marked the habitations of our early settlers, but these were only temporary expedients, awaiting the evolution of plans—the materialization of air castles, the coming-true of dreams—which have given us beautiful houses and commodious barns throughout the State.

The cabin and dugout are as rare now as were the well-built frame houses forty years ago.

There seems also to have been an evolution in the corral, the chicken-yard and the field. Instead of the razor-back hogs that our settler brought from Arkansas or Missouri, with limbs that suggested a racer, we see in the hog-lots of the Kansas farmers to-day pudgy animals that appear to be all hams and shoulders, with nubbins-like feet and snoot stuck on. On the range, native or home-bred cattle have taken the place of the wild Texas steers, which had horns that spread seven feet from tip to tip, making their light bodies look even more slender. These herds grazing, or "at attention" as the stranger passed, presented a picturesque sight, but it is one we gladly give up with the other makeshifts of pioneer days.

Those of you who attended the Kansas Chicken Show of 1905 know that our chicken and turkey flocks are not behind our herds in improvement, and have no fear that juicy steaks and broiled ham will drive the fried chicken and roast fowl from off our bill of fare.

We all believe in this kind of evolution, that from year to year gives us better houses, animals, and fowls. It should also, and does, give us better fruit, better grain, better lawns, better roads, better neighbors, better schools, better churches, and better social conditions.

But in order to hasten the fullness of all these good things, we each must feel a personal responsibility in the conditions that surround us. We must each be an example to the other for betterment. If you make your premises attractive, by laying out a beautiful lawn, planting shade-trees, shrubs, vines, and flowers, it will appeal to your neighbors, and soon the contagion will spread until your little corner of the world—your street, or "out on your road"—will be noted for its beauty, and the strangers coming in will want to abide with you, for these are the conditions that go far to mark the difference between the good and the poor neighborhood.

Where we find beauty and comfort expressed in the outdoor surroundings we are almost sure to find intelligence, refinement and culture within.

Out-door art, like charity, should begin at home, but it can not end there. The clean back yard with its flowers and vines is as full of contagion as is that other one where the ground is reeking with kitchen slops and covered with all sorts of debris; but the contagion will be of the healthier sort and will in time extend to roadways, streets and parks, not only in your own vicinity, but throughout your State.

The new civic spirit which had its birth twelve years ago in that great white city on the shores of Lake Michigan happily lives and will continue to live though the city now has its place only in our hearts and memory. Because of the lessons learned there in harmony, in architecture, in the building of streets, and roadways, of parks, waterways, fountains, and landscape gardening, we have to-day a more beautiful America. These lessons came back to Kansas at an opportune time. The years that had necessarily been spent in breaking the sod and building the temporary homes and schoolhouses, were past, and the years that have followed have been bountiful ones, lifting the spirits of our men and women, filling the barns and granaries, and paying off the mortgages. So that in all ways Kansas people were ready to take their place in the new movement.

The influence was widespread, and may have had no special starting point in our State, but we believe that not

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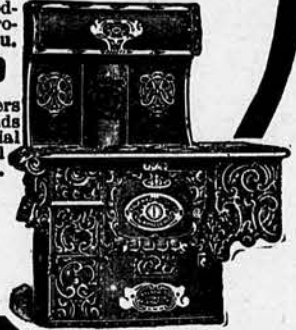
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Oklahoma summer days are very torrid—he kept up the cultivation, while the townsmen looked on and smiled.

"The trees grew sturdily. In a year they were two feet high; in another year they were five feet high—thousands of them. The square looked like a young nursery. The superintendent notified the citizens that they could buy the promising trees at a low price; and as the necessary thinning went on he sold enough to pay the expenses incurred in preparing, planting and caring for the square. Now the trees are seven to ten feet high, thrifty and vigorous, making of the square a park, increasing in beauty daily and in summer the delight of children and family parties for miles around. Another five or ten years and it will be a beautiful grove, the shelter of the leaves making it possible to seed the ground to blue-grass and clover.

"That was not all: The thousands of trees sold not only paid the actual expenses of the park, but the buyers set them out along the streets and in the front yards of town. All over the little city are growing these elms, and in a decade or two the dwellings will seem to be set in a forest, while the highways will be lined with graceful shade. Many country school districts have taken the lesson to heart and purchased the elms with which the beautify the school-grounds, promising shade and comfort for the rising generation. A tree-planting fashion has spread over the country, with an influence for positive advancement that can scarcely be overestimated."

This story of how a town was beautified brings to mind another. At one time there were few birds in Southern California, and these few were hardly what we would call beautiful, and when Mr. and Mrs. Andrew McNally went to Attadena to live, they made up their minds that the land needed birds, so they built an aviary and imported many hundreds of their feathered friends. Once a year they opened the doors of their aviary and let the young birds fly whithersoever they would, and in a short time the country was populated with feathered creatures of every variety of hue and song. Their example was followed by Mr. and Mrs. Joseph Grinnell, both of whom are ardent ornithologists, so that now the country around Pasadena is a garden spot for birds of beautiful plumage. Many of the birds that were imported came from Japan and China.

There are more ways than one of beautifying a town or a State. If you can not cultivate a public square or import birds, you can protect and care for the birds we have, and give your influence towards beautifying school-grounds and roadways, and assist in every movement for public parks and the making of waste places glad. If you and your neighbors do this, and at the same time keep your own door-yards clean and attractive, then will our beloved Kansas, who has struggled through difficulties of pests and plagues, of hot winds and cold blizzards, of drouth and flood, to her place among the stars, be recognized in that galaxy as one who has done much toward making this a more beautiful America.

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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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Our Club Roll.

Mutual Improvement Club, Carbondale, Osage County (1895).
Glive 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).
Challito Club, Highland Park, Shawnee County, (1902).
Cultus Club, Phillipsburg, Phillips County (1902).
Literature Club, Ford, Ford County (1903).
Sabeen 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).
Pleasant Hour Club, Wakarusa Township, Douglas County (1899).
The Lady Farmers' Institute, Marysville, Marshall County (1902).
Women's Country Club, Anthony, Harper County
Taka Embroidery Club, Madison, Greenwood County (1902).
Mutual Improvement Club, Vermillion, Marshall County (1903).
Prentiss 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 Pleasant Hour Club.

The Pleasant Hour Club, Wakarusa Township, Douglas County, is prospering, with a membership of thirty-four, meeting every other Wednesday afternoon. In response to roll-call, domestic science has been adopted for three months. If sufficient interest is manifested, it will be continued throughout the year. The domestic science program, published in the KANSAS FARMER, is thoroughly appreciated and has greatly assisted the members.

The club has no calendar. The literary program is furnished by two members appointed alphabetically at each meeting, each member selecting for her subject some renowned man or woman, or great industry in the State in which she was born.

Last Wednesday the member from Wisconsin read a paper on Carrie Chapman-Catt, who was born in the same county in which the member had lived; and the member from Massachusetts read an article on Governor Douglas and gave an interesting description of his famous shoe-factory at Brockton, which she had visited.

When the club meets where there is an instrument, music is furnished, and luncheon is always served.

HOUSEHOLD PROGRAM.

Making the Home.

Roll-call—My definition of home.
I. A model home.
II. House-furnishing.
III. Literature, art, and music, and their relation to the home.
IV. How to be agreeable, though tired.

It is astonishing how widely people differ on a single matter of definition of words. This will be illustrated in the response to roll-call, when each one is asked to give her definition of home. These definitions would best be written out before coming to the club meeting, for if one decides to give it orally, her thought will be unconsciously but very greatly influenced by the words of those who precede her. By no means the most important yet nevertheless one of the requisites for a home, then, are houses. Some houses are put up with taste and intelligence and care for the future needs of the family, while others are mere makeshifts, shelters from the weather and that is all. I suppose no one ever lived in a home which especially suited him, even though he planned and built it himself. There is always something which could have been arranged so much better! Yet it is only by thought and planning that anything like perfection is attained. So the first paper will doubtless be a most helpful as well as interesting one. The model home which



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it describes should suit the family of the average size, and of means such as most of the members possess. Drawings, however crude they may be, will help greatly in making one's ideas plain.

Perhaps even more important than the building, is the furnishing of the home. Good taste, utility and simplicity are the very important things to be considered in this matter. The writer of this paper should give practical plans, as well as general theories.

The third topic takes up a subject which is very often overlooked. Is it not true that in our just and righteous enthusiasm for the necessities of food and shelter, we forget the higher necessities of mental food and adornment. In my definition of a home the attribute of beauty could never be omitted.

What kind of reading matter shall we welcome to our homes? What kind of pictures shall we put upon our walls? To what kind of sounds shall we accustom ourselves and our children? Shall it be the cheap novel, the hideous print, the unbecoming songs that are popular? Or shall we learn to understand and appreciate what is fine and beautiful by our daily intimate contact with it, in the family circle? I will leave the consideration of these things to the writer of the paper.

Most important of all in the making of a home, is the spirit that dwells there. If it be one of ill-nature, fault-finding, carelessness, then it is home in nothing but name. We talk of the fine art—the finest art, of all is the art of being agreeable. This involves most of all the power to live above trifles. How to be agreeable—though tired—if any one will tell us—that is, who has really tried it and been successful—she will be a real benefactor.

KANSAS HISTORY PROGRAM.

Symposium—The Kansas Product.

Roll-call—Questions about Kansas.
I. Of the field and orchard.
II. Of the mine and well.
III. Of the factory.
IV. Of the home.

For the questions indicated as response to roll-call, it need not be considered whether or not they are likely to be answered in the meeting. It may be they will lead only to purposeless discussions; yet each will give some one else something to think about which perhaps would not otherwise have occurred to her.

For this symposium on the Kansas product, there may be only one thorough discussion of each topic, or two or three short papers may be read on each subject. Kansas has developed so largely and so variously in the last decade, that there will be much that is new to tell on each division of the topic. The first one will take up Kansas crops, with present methods of obtaining them, experiments in plant-breeding, irrigation, etc.; the second will discuss gas, oil, salt, coal, and all the mineral products, with whatever is of interest in connection with them, as oil legislation, methods of salt and coal mining; the third will tell of the flour mills, glass factories, packing houses, etc.; the fourth will deal with the people, especially native Kansans, both of the present and future.

We are glad to hear from the Pleasant Hour Club again. I am sure they have such meetings as befit their name. The account of the last program sounds especially enticing.



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which enables you to look it over thoroughly and satisfy yourself that it is exactly as represented.

Split Hickory Buggies are guaranteed for two years. This is not the paper guarantee of a catalogue house, but the cash guarantee of the largest buggy factory in the country selling to the consumer direct.

NOW READY 1905 Split Hickory catalogue, 122 pages of illustration and description of our entire line of vehicles and harness. We send it free on request. Write for it today.

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

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Attacks stopped permanently. Cause removed. Breathing organs and nervous system restored. Symptoms never return. No medicines needed afterward. 21 years success treating Asthma and Hay Fever. 58,000 patients. Book L Free. Very interesting.

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RUPTURE CURED WHILE YOU WORK. YOU PAY NO MONEY UNTIL CURED. NO OTHER CURE. ALL SPECIES OF RUPTURE CURED.

Enough Crude Oil to Supply the Independent

PROMINENT Cherryvale citizens are investing heavily in the stock of the Refinery, as they are on the grounds, can see what is being done and realize the great profits that are sure to be secured, while from the four corners of the country orders for stock are coming in a continuous stream.

REFINERY now controls lands and 68 complete pumping plants and grounds for over 1,100 miles.

PROCLAMATION

Proclamation of Emancipation to All Kansas Oil Producers and Oil Consumers.

The Uncle Sam Refinery Company is the Herald of the Glad Tidings of a Rescue from Standard Oil Greed and Oppression.

Whereas, For more than a generation those pirates of American oil fields, under the black flag of plunder and spoliation, The Standard Oil interests, under many disguises, have made war upon independent refineries, and upon all oil producers who would not bow submissively to Standard Oil dictation and exactions, and

Whereas, those interests have openly sought to subject the oil producers of Kansas to Standard Slavery, by stimulating production by fair prices and false promises, followed by reducing the grade of Kansas oil, by manipulation of tests by its hireling gaugers; many reductions in price of Kansas Oil, and closing of its market by a boycott, through the Standard pipe lines and,

Whereas, while it has threatened ruin and desolation to the Kansas oil producers by its lowering the price of oil, it has been enriching its system by forced rebates from carrier corporations and arbitrary increases in the price of the low grade oil it has furnished for consumers and,

Whereas, the sovereign State of Kansas is the first one of the United States that has had the courage to challenge this Standard Oil system, and to call a halt to its career of spoliation of the citizens of the State, by enacting fair freight rates for the carriage of oil and providing for an independent refinery under State control, and,

Whereas, this vulture system, through its mercenary hirelings, is seeking to hinder and delay the erection of the State Refinery by specious promises of fair treatment to the Kansas producers on one hand while threatening hindering litigation through its paid sycophants upon the other, while making sport of the relief such State refinery will give, and deriding its capacity, through its own or purchased press, and

Whereas, through hidden channels this system is seeking to destroy the effect of said State Refinery by seeking to make contracts for the entire Kansas oil production, through subsidizing corporations under its control, now,

Therefore, be it known that THE UNCLE SAM REFINERY OF CHERRYVALE proclaims to every Kansas OIL PRODUCER and to every oil consumer in the great Missouri Valley States EMANCIPATION from the Standard Oil system's monopoly and greed by the erection of its Independent Refinery without a sympathizer of the system threatening to refuse to register its bonds, until their validity has been sustained by a court of last resort. We do further PROCLAIM that the Refinery we are erecting will not only furnish a market for the Kansas Oil Producer, but that it will also provide for consumers cheap fuel oil and the highest grade of illuminating oil, at prices equal to, if not lower, than this system now extorts for the lowest grade of oil it is supplying to the trade.

We do further proclaim that even if a great portion

of the Kansas oil production should be contracted and placed under the control of this system, that with our two thousand acres of land, with its forty-eight (48) producing oil wells, and the close alliance that is now forming between us and all the oil producers of the Cherryvale District, that we will have sufficient oil to run our refinery to its full capacity and supply large quantities of the best of oil for Kansas consumption before the first day of August, 1905.

We do further PROCLAIM that we have fortified our refinery during the past week by the erection of the following outposts, to wit:

First, Seven miles of pipe line covering the Cherryvale oil field in part.

Second, The erection of two tanks on our grounds giving us a storage capacity of two thousand barrels.

Third, The shipment of a steel tank from the Warren Boiler Works, in Ohio, to our refinery of a 40,000 barrel capacity.

Fourth, The closing of a contract with the A. T. & S. F. Railway for a sidetrack into our refinery grounds, to be constructed as soon as possible.

Fifth, The increase of our bank deposit by several thousand dollars, contributed by purchasers of refinery stock.

Sixth, A close alliance with all the oil producers of this field who are all in open rebellion against the confiscation exactions of the Standard Oil system, and a sure and safe alliance with the Kansas State Refinery, when completed, all anchored under the broad protection of the laws of the State of Kansas, to insure our success.

Seventh, Scores of letters in every mail filled with cheering promises of support, accompanied by cash payments for stock subscriptions from all the great Central States and Territories, and also the Dominion of Canada, in fact from every section of this continent, where Standard Oil tyranny and oppression has plundered the oil producer and wherever Standard Oil avarice and greed has robbed the oil consumer.

As the closing part of this Declaration of Emancipation we do proclaim that we are enlisting the hopes, wishes and cash contributions of hundreds and thousands of lovers of liberty, who have taken the Standard Oil orders, defying the State of Kansas to give relief to its plundered citizens, as a veritable call to arms and under the banner of THE UNCLE SAM REFINERY they are enrolling themselves for a contest which will not end until justice and equity is participated in by every producer in the Kansas oil field and by every consumer of crude and refined oil in the factories and homes of the great Central West, and every freeman whose love of freedom and justice exceeds his hatred of oppression, extortion, graft and robbery is by this invitation urged to join our ranks by enlisting under our banner and becoming stockholders of THE UNCLE SAM REFINERY COMPANY.

Refinery Growth.

In the Kansas Farmer of last week our fieldman, Judge Rightmire, described the Uncle Sam Refinery Company on March 22. In a report made on April 3, he confirms the news item of the daily papers, of the consolidation of The Farmers' Oil Company and of the Cherryvale Central Oil Company with the Uncle Sam Refinery Company, thus giving the Refinery Company a daily oil production of over 500 barrels of its own oil; and that a close alliance has been formed with all the Cherryvale oil producers, insuring the entire production of this oil field for the Uncle Sam Refinery, about one thousand barrels per day, and a complete defeat of the Standard Oil system, which since the Uncle Sam Refinery has become a surety, had its agents in that field trying to get control of the oil production, and to freeze the Uncle Sam out by offering to build a Standard Oil Refinery at Cherryvale, under the guise of another independent Refinery Company, but the Cherryvale oil producers saw through the scheme and have combined with the Uncle Sam Refinery Company.

Two Storage Tanks Completed, Seven Miles of Pipe Line Laid—One Forty-Thousand Barrel Steel Storage Tank on Its Way.

The Uncle Sam has been moving right along for the last week. Monday a 40,000-barrel steel storage tank was ordered and telegram from Warren, O., states that two of the first cars were loaded Tuesday. Two large wood storage tanks furnishing storage for over 2,000 barrels were completed this week and seven miles of pipe line laid connecting part of the Cherryvale field. Work is being pushed all along the line with a vim. Successful men are at the helm with this company and you can expect great results. Soon the machinery will begin to arrive and then a whole lot of men will wish they had purchased stock now. Don't wait until this company has secured all the producing properties in the Cherryvale field and has the refinery in operation and then expect to buy stock at the low price of 4 cents per share. Better send a check or draft to-day for \$400 and secure 10,000 shares.

Prominent Cherryvale Men Invest Heavily During the Last Three Days.

Everybody is backing this great Kansas refinery. In Cherryvale every man, woman and child wants to see this refinery become the largest independent refinery in the West, and in the last forty-eight hours the following citizens have invested in the stock of this company at straight 4 cents per share on an average of \$650 each: A. J. Axtell, proprietor of the Axtell Hotel; Judge J. M. Courtney, superintendent of the city water works; C. A. Calley, proprietor of the Logan Hotel; A. R. Evans, manager of the Whitney lumber yards; Dave Fogleman, merchant; Dr. S. H. Kellam; C. C. Kincaid, president of the Montgomery National Bank; L. H. Klein, member of the school board; Charles A. Mitchell, cashier of The Peoples' National Bank; R. F. Richart, member of the firm of Richart & McDonald; Dr. S. M. Seacat; G. M. Shanton, cashier of the State Bank; G. K. Withers, member of the Globe Clothing Company; C. O. Wright, president of the Peoples' Bank; Revilo Newton, cashier of the Montgomery County National Bank. ALL of these men and many others in Cherryvale are doing all they can for the grand success of the refinery. It is easy for any investor to see with such men as these buying at 4 cents per share and with the combined support of over 700 stockholders of the Publishers' Oil Company and with 400 stockholders of the Uncle Sam Company making considerable over 1,000 men who are now directly interested in its final grand success, that the stock can not and will not be sold much longer at 4 cents per share. The facts are the company would be justified right now in advancing the stock to 6 or 8 cents per share and it would be purchased fast by investors even at those prices.

All Records Broken in the Sale of the Stock of This Company.

Monday, March 27, 96,000 shares of stock were issued. Tuesday, 76,000 shares were issued. Wednesday, 84,000 shares were issued, and on Thursday 348,000. Every share of this stock goes out at straight 4 cents per share as we can prove by our books and bank deposits. The company expects to raise at least \$300,000 in the next sixty days and by that time you will not see a share of this stock that can be secured under ten times the present price. The time to buy is now, and better use the wires if you are delayed with your remittance.

The Men Behind the Guns in the Uncle Sam Company Are Kansans.

When you invest in the Uncle Sam Company's stock you line up with a company that is backed by Kansas, and especially by the citizens of Cherryvale. Every banker, and most all the doctors and leading merchants and lumber and grain men are backing the company with their cash and their influence. The Uncle Sam refinery is a Cherryvale enterprise, it is a home industry, the pride of the city is back of it, everybody in Cherryvale is working for it. These are conditions to look to, the men who are at the helm live in Cherryvale, they are right on the grounds, they value their reputations and have a double grievance against the

NOW IS THE TIME TO BUY YOUR STOCK

For a few more days the Uncle Sam Company will sell Treasury Stock as follows:

1,000 Shares,	\$40.00	2,500 Shares,	\$100.00
1,500 Shares,	\$60.00	5,000 Shares,	\$200.00
2,000 Shares,	\$80.00	10,000 Shares,	\$400.00

The Stock is Non-Assessable, and the par value is \$1.00 per Share.

The time to invest in a company is when that company is selling its ground-floor stock. When you buy stock in the Uncle Sam Company at \$40 per 1,000 shares, you pay no more than hundreds of other investors. The company is strong now, and is hourly growing stronger. By September 1st you will see this stock up close to the dollar mark. Why not help yourself, and also help this company, by remitting to-day for at least 1,000 shares of stock?

Twenty Kansas Towns and Two in Oklahoma That Are Running Neck and Neck for a One-Hundredth Interest in the Uncle Sam Refinery Company.

The Uncle Sam Company promised several weeks ago that the first twenty towns in either Kansas, Oklahoma, Missouri, or Nebraska, that secured a one-hundredth interest in the stock of this company would secure an oil station from the Uncle Sam Refinery. Since that date, the following towns have engaged in the contest and are running neck and neck, the highest amount held by any at present is 48,000 shares, or nearly one-half, and the lowest amount held by any is 32,000, or nearly one-third of the required amount and it is safe to say that in the next week at least the entire twenty will even up to the required amount. The towns in the game at present in earnest, and where men are at work, are Courtland, Clearwater, Greensburg, Olathe, Lyons, Abilene, Jetmore, Emporia, Scammon, Pittsburg, Parsons, Oswego, Winfield, Beloit, Salina, Osborne, Dodge City, Delphos, Horton, Hutchinson and Wellington in Kansas, and Lexington in Missouri, and Alva and Rusk in Oklahoma. Besides these there are over fifty other towns in the four States that are getting lined up and any day five or six men may take out a block of stock each and run their locality to the front very quickly. If you desire to see your city secure an oil station from the Uncle Sam Company, thereby securing some competition and better oil to burn, see a few of your friends and line them up for the Uncle Sam Company. Ten men with \$400 each will secure a station for your town and the man that works up the club will be given a preference in control of the Station.

the Great Kansas Oil Refinery for a Half Century

controls 2,400 acres of oil producing oilers, has 4 companies and room on proved 100 more producing wells.

SEVEN miles of pipe lines completed, storage tanks up, machinery being rushed onto the grounds. Stock now selling for \$40 per thousand shares, bound to increase in solid values to \$200 per thousand shares in the next three months and be earning dividends in less than a year.

Company and will treat you just and the down and get acquainted with the if you have time and when you do will find thousands of dollars to fix expensive offices nor any diat front to meet you at the door but ordinary Kansans working with a energy it means success, and what's are going to accomplish the same.

ons Now Pending for Refineries at
ille, Independence and Bartlesville.

le Sam Company is not making this a bluff, as it is customary for some concerns to build three or four refineries all at once and to have each one have of not less than five thousand barrels each. The Uncle Sam Company does not attempt to put in very large on the part. It will build solid what- and put up big storage and derdetermine and secure a leverage on the start. The start the Uncle Sam Com- has it to assist the building of oth- ill work jointly with any independent that are started that we know are ard Oil fields shows. Plans have been sideration for some time to locate a refinery, one at Independence, one ills, are one at Bartlesville, but un- sideration will it go to either point an honest enterprise by other peo- d faith leads us to the place, but on ary will work shoulder to shoulder. There will be in time at least five at refineries in Southern Kansas and Indian Territory, and all working the State are sure to secure at the same time be of great

benefit to the consumer of refined oil and that means about every man in the country. Better take a hand in this good work and help yourself and this company too by sending what money you can spare now and secure your stock before this company has two or three refineries in operation and the stock worth a dollar a share.

One Thousand (1,000) Men Wanted to Buy Stock on Installments.

The Uncle Sam Company wants to give every man a chance to share in the profits of this company and to assist those who would prefer to take stock on installments the company will sell a limited amount of the stock on installments as follows:

One thousand (1,000) shares for \$5 cash and six monthly installments of \$6 each.
2,000 shares for \$10 cash and six monthly installments of \$12 each.
3,000 shares for \$15 cash and six monthly installments of \$18 each.
4,000 shares for \$20 cash and six monthly installments of \$24 each.
5,000 shares for \$25 cash and six monthly installments of \$30 each.
10,000 shares for \$50 cash and six monthly installments of \$60 each.

The company has carefully prepared a contract which it will send to every purchaser on installments promptly. Will say further that the stock that will be sold on installments is very limited and the orders have been coming in very fast. One man yesterday came in from the country and planked down \$100 and took twenty thousand shares, and you should send check or draft at once to secure stock on these terms. See your friends and send in for ten or twenty thousand shares right off and the chances are before you have the stock all paid

out that it will have advanced three times the present price.

Will Commence Buying Oil for the Uncle Sam Refinery Next Monday.

Now while the price of oil is low the Uncle Sam Company will secure as much crude oil in storage as it can procure and will commence buying oil next Monday. Things move fast down here and if you think there is anything slow about the Uncle Sam Company just come down to Cherryvale and see for yourself.

Consider for Yourself What a Half Million Dollars Now Invested in the Oil Fields Will Mean.

Any man who thinks the Uncle Sam Company is not on a practical basis with certain success ahead should come down to the oil fields and see the condition of affairs. Valuable oil properties can be secured at a very low price on the account of the boycott by the Standard on Kansas oil; these men, however, don't wish to sacrifice their properties but just as fast as the Uncle Sam refinery can, they are taking the good properties in by securing controlling interest in the companies. By doing this it saves the present owners of the properties and at the same time will make the Uncle Sam Companies lots of money. Don't wait until this company has 10,000 acres of the most valuable oil lands in the oil fields and then expect to even buy stock at four times the present price. Now is the time for you to act for

this company is not running any chances; it will be protected by the strong arm of the State, has the moral support of the press of the Central West, it will have men and money enough back of it to secure protection from any criminal discrimination.

Persons who wish to buy stock at 4 cents a share must not write any letters asking questions, pending an investment, for the entire force of the company is kept busy answering letters containing cash for stock (as an instance Saturday morning's mail brought in \$2,500 for stock) and the small office force is kept busy with this business and can find no time to answer letters of inquiry. Again, with two-thirds the cash on hand to fully complete and equip the refinery, as soon as enough stock is sold to provide cash enough to pay for the remaining one-third and outside oil, to fill the Refinery Company's tanks, the stock will be largely increased in price, and those who wish to get in on the ground floor with stock at 4c per share must do so at once, or the opportunity will be lost.

How to Send Money.

Make your checks, drafts or money orders payable to the Uncle Sam Company or to H. H. Tucker, Jr., secretary. Write your name plainly, tell us how, or to whom you want the stock issued, and we will forward stock by return mail, and also send you weekly report thereafter, thus keeping you fully posted. Address,

H. H. TUCKER, Jr., Sec'y, Cherryvale, Kans

RICE COUNTY, KANSAS.

(Continued from page 361.)

produce pork more easily and of better quality on their alfalfa and Kafir-corn than can be done in regions devoted exclusively to corn. Nothing produces such rapid development and growth in the young animal as does alfalfa. The combination of good live stock and abundant alfalfa has served to increase the price of land so that it is now higher in certain localities of Central and Western Kansas than in some localities in the eastern part of the State.

During a journey of several hundred miles through this region the writer was shown pieces of land in different counties that had sold for \$100 or more per acre, and in each case was informed that there was very little land for sale in that locality even at such a top price.

All classes of pure-bred live stock are found here and there is no place where it can be raised more cheaply. With alfalfa has come a new prosperity to this region and because of it this will unquestionably become the richest agricultural country in the world.

AVOID EXPENSE OF LITIGATION.

EDITOR KANSAS FARMER:—A, who was a partner of B, divided several miles of fence that lay between them and C. A dies and B gets all the land and proceeds to cut C's fence loose, put in all her own fence and act as if there were no former agreement and does not notify C. C's hired man was hauling feed over one of the partition fences and B stapled the gate, and C's hired man did not know what it meant but pushed it down and went on as usual. B hauls her feed through this same place and over C's land. Now B sues C for \$200 damages for breaking down gate and damaging her sod. It can't be shown that it is damaged. Can I answer by counter suit or deny, as I knew nothing of the breaking? Will you please advise me through the KANSAS FARMER?

Wichita County. A SUBSCRIBER.
This is a case in which each of the

parties may be at large expense without any possibility of profit. A little neighborly conference in a Christian spirit will be far more likely to lead to a correct settlement than all the suits, defenses, and counter-suits that the ablest lawyers can devise. If this plan be well tried and fail, then let the matter be left to arbitration, each party agreeing to accept the findings of the arbitrators. If the matter has to be tried in court, the correspondent will do better to follow such plan as shall be suggested by his attorney. It would be impossible for the editor to direct as to proceedings without a thorough examination of the case in its many bearings.

But, be neighborly and settle this small matter between the parties directly interested and be good friends and neighbors afterwards.

A DAIRY SCHOOL ON WHEELS.

The Blue Valley Creamery Company, of St. Joseph, Mo., who have always been pioneers of progress in plans for profitable dairying, now announce an innovation. Starting from St. Joseph, Mo., on the morning of April 10, they will run a special dairy train over the St. Joseph and Grand Island Railroad, that will be a traveling encyclopedia of information for dairymen. Arrangements have been made with a number of the best dairy authorities in the country to accompany this dairy train and give lectures on various topics pertaining to the dairy business. The train will go from St. Joseph to Grand Island, Neb., and will stop at each station, where literature pertaining to dairy matters will be distributed and lectures delivered. Farmers are invited to be present at the town nearest them when the train passes through in order that they may receive the benefits offered by it. This is a stroke of enterprise on the part of the Blue Valley Creamery Company that can not fail of big results to the farmers of Northern Kansas and we hope that each station will see a large crowd present on the arrival of the special dairy train.

Agents Wanted!

**IS THE BREEDER'S GAZETTE
REPRESENTED
IN YOUR NEIGHBORHOOD?**

WE want agents to solicit subscriptions in all unassigned territory. Liberal cash prizes to all who get up clubs. Competition commences NOW. New prize list just issued. **THE GAZETTE** is the stock farmer's newspaper, 36 to 56 pages weekly and beautifully illustrated. A sample copy and premium list sent free to all applicants who mention this paper. Address **SANDERS PUB. CO., 358 Dearborn St., CHICAGO, ILL.**

PILES

NO MONEY TILL CURED. 27 YEARS ESTABLISHED.
We send FREE and postpaid a 232-page treatise on Piles, Fistula and Diseases of the Rectum; also 108-page illus. treatise on Diseases of Women. Of the thousands cured by our mild method, none paid a cent till cured—we furnish their names on application.
DRS. THORNTON & MINOR, 3809 Olive Street, St. Louis, Mo., and 1007 Oak St., Kansas City, Mo.

\$3,000 FREE \$3,000 FREE

For afflicted, unable to pay full price for Rheumatism, Lost Energy, Nervous Debility, Piles and Catarrh. Enclose Stamp.
ACME DRUG CO., South Bend, Ind.



Largest Optical Mail Order House in the West.

Eyes examined free accurately by mail. Any style glasses for \$1. Write for free examination sheet and illustrated catalogue. Satisfaction guaranteed.
R. E. Baker Optical Co. 924 Express Bldg., Seattle

In the Dairy

The Cream Separator—Its Advantages Over the Old System.

SHERMAN E. STEVENSON, BEFORE ONEIDA FARMERS' INSTITUTE.

The separator is made for one specific purpose—that of skimming milk. The skimming is done wholly by centrifugal force. The centrifugal force in a separator causes the milk to flow away from the center of the bowl and hug the inside of the bowl wall. The skim-milk thus forces its way to the parts farthest from the center while the cream which is lighter lags behind and collects in the middle of the bowl. Strictly speaking, the skim-milk, being heavier, is separated from the cream by the action of centrifugal force instead of the cream being extracted from the milk. Openings on the outer edge of the bowl carry off the skim-milk and an opening near the center carries off the cream.

In order to have perfect motion of the bowl, the machine must be set level and be kept clean and well oiled. The oil should be thin or light so that it will not gum the wearing parts. A heavy oil will make the machine run hard on small, high-speed bearings. It is well, I find occasionally, to make a run, using coal-oil to wash the bearings off. This will keep the parts free from gum and remove grit or sand that is liable to collect. All machines have marked upon them or in their instruction book the number of revolutions the crank should make per minute. Follow these instructions carefully, counting every few times the machine is used to be sure the speed is maintained. This is a point at which much careless work is done.

Far too many guess at the speed and they seldom guess aright. I have found it a good rule never to guess at anything when it is possible to know. Never run the machine at less speed than is indicated by the manufacturer. Slow speed has two effects on the work of the machine. (1) the separation will not be complete and (2) the cream will be thin. The incomplete separation means a loss of butter-fat left in the skim-milk. Another thing I have found to effect the cream and that is the quantity of milk flowing through the bowl. Within certain limits the amount which passes through the bowl has a decided effect upon the separation. The faster the milk passes through, the shorter the period in which the centrifugal force acts on it and the less complete is the separation. If the amount of milk is

turned off about one-half, by partially closing the faucet over the bowl, the cream will be thicker. By removing the float and allowing the pan to run full of milk the cream will be thin.

A rule has been established by all separator men that the milk must be separated at a temperature above 85° F. The warmer the milk the more fluid it is. Cold milk is more viscous (or less fluid) than warm and the cream will not separate so readily.

I find the best time for milk to be separated is just as soon as possible after milking, then the skimming will be cleanest. The skim-milk will be better for feed and the cream will keep sweet longer. The cream screw is to regulate the percentage of butter-fat in the cream separated and enable the operator to make allowance for changes of seasons and character of milk to the extent that a uniform cream be obtained under all conditions, as nearly as possible. The test of butter-fat varies with the speed of the machine, with the amount of milk run through the machine and with the temperature of the milk. There are some factors of separation, I find, which influence the percentage of fat in the cream. In the summer when the cows are on green pasture and are at their best and giving large quantities of milk, the milk is easy to separate. The reverse is true in winter, if the cows are kept wholly on dry feeds. Milk tests, as a rule, higher in butter-fat in winter than in summer. Rich milk will give the richest cream. The proportion of milk to cream remains about the same but the butter-fat content is quite changeable.

When a farmer begins to consider the question of buying a separator, if he is a shrewd business man, there are a great many questions he wants answered. I know that was the case with myself. I wanted to have them answered by some one who had had experience in their use and who had no interest in their sale or manufacture, so I got a separator on trial. I could use it until I was satisfied, if it took all summer. If, after giving it a thorough trial, I concluded that I did not want it, I could return it and it would cost me nothing. I gave it as thorough a trial as I knew how. I figured closely on the amount of butter saved by weighing milk and butter and also by testing skim-milk after it had gone through the separator to see how much cream was left in it. I tried several operations under the separator system and the gravity system and the result was, I thought, a very profitable investment and I bought the separator; and I find it more profitable than I figured it would be at the time. I contend that with five good average cows, a man who makes his milk into butter can not afford to be without a separator. I have estimated the saving on these five cows by the use of the separator over the old system to be 250 pounds of butter a year. Now let us see what it has cost us to save this 250 pounds of butter. The cost of separator is \$100. The interest at 6 per cent would be \$6; repairs and oil one year, \$1; the wear on separator, \$5; total \$12.

The 250 pounds of butter saved, at 20 cents a pound, \$50. That would leave us a profit of \$38. The butter at 15 cents per pound would bring \$37.50. So you see, figuring butter at that very low price, there would be for every dollar expended nearly \$2 received. With a larger number of cows the relative profit would be greater. The average gain by using the separator over the deep-setting system is three-fourths of a pound of butter for every 100 pounds of milk. Some persons may think that does not amount to much. Let us see what that will amount to. A decent cow in the hands of a decent man will give 5,000 pounds of milk a year. There would be a saving of 37.5 pounds of butter at 20 cents would be \$7.50 per cow; 10 cows would be \$75; 20 cows, \$150. The cost of running the separator by hand does not exceed the cost of selling and skimming of the milk, washing pans, cans, crocks, etc. Another very important step in favor of the separator is the improved state of the skim-milk over that left

WHAT PRICE MEANS IN BUYING A SEPARATOR

There are two most important considerations in the purchase of a Cream Separator. One is efficiency and the other life or durability.

Every buyer thinks of efficiency, and while recognizing the superiority of the De Laval in such respect is frequently tempted to overlook it because some inferior machine, claiming equal capacity, is \$10 to \$25 "cheaper" in first cost.

Few buyers stop to think of comparative life and durability. The established life of a De Laval machine is at least twenty years, and may be as much more. The twenty years is already proved.

On the other hand, as they are made to-day and run at the tremendously high speeds they are, in the effort to approach the efficiency of the De Laval machines, no other separator on the market can last for more than two to ten years at the outside. The average will not exceed five years. Examination alone will satisfy every buyer of this.

The price of a 10 to 25 cow De Laval machine is \$100 and its established lifetime twenty years. Even if just as good in every other way, the machine which lasts ten years is worth \$50. That which lasts five years is worth \$25. And that which lasts two years (and there are several makes on the market which can not possibly last longer) is worth just \$10.

And when you add to this the fact, which nobody who knows attempts to dispute, that a De Laval machine gains and saves at least twice as much every year as any imitating separator, it will be better understood how little FIRST COST of the separator really means, or rather HOW MUCH IT MEANS even if it is a little more to begin with.

A De Laval catalogue, or better still a De Laval machine itself, helps to make all these facts plain to everybody having use for a separator, and either is to be had for the asking.

THE DE LAVAL SEPARATOR CO.,

Randolph & Canal Sts.,
CHICAGO.

1213 Filbert Street,
PHILADELPHIA.

9 & 11 Drumm Street,
SAN FRANCISCO.

General Offices:

74 CORTLANDT STREET,

NEW YORK.

121 Youville Square
MONTREAL.

75 & 77 York Street,
TORONTO.

248 McDermot Avenue
WINNIPEG.

WHY SELL CREAM?

Because it gives you a cream check two times per month, or oftener if you need the money. You deliver cream to one of our stations and see the cream weighed, sampled and tested. You know the price in advance of delivery and know the actual cash value of each can of cream delivered.

THERE IS MONEY IN IT

Every farmer knows that it pays to milk a few good cows. The farm separator enables him to feed the skim milk, warm and sweet, to his calves, pigs and chickens; to sell his cream for more money than it is worth in butter for trade at the store, and saves his wife the trouble of churning.

If you have a separator and are not near any one of our 500 stations, you can ship your cream direct. If you have no separator, we will sell you one on the cream payment plan and you'll never miss the money.

If there are a dozen farmers at your point who have or need a cream separator we will sell the separators and give you a cream receiving station at your point.

Ask us any question you please about any phase of dairy or creamery business.

THE CONTINENTAL CREAMERY CO.
TOPEKA, KANSAS

Sharples

Tubular

SEPARATORS



Only Bowl With Proper Bearing

All "bucket bowl" separators have incorrect bearings. The bowl is set upon the spindle and held upright by rigid bearings. Such bowls are top heavy, inclined to wobble, sure to bind.

Tubular bowls, only, are properly supported, being suspended from and turning upon a single ball bearing. A breath almost turns them. They cannot wobble or bind. Catalog L-105 tells all about them.

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

There are only two classes of hand cream separators

The Omega

and all others. Because of the great simplicity, ease of operating, ease in cleaning and perfect skimming the Omega is in a class by itself. No other can be compared to it or classed with it.

The proof is in the trial. You will know to a certainty, if you try it. Our book, MILK RETURNS, tells all about the Omega and much more which every cow owner should know. We mail the book free.

We want a good, active agent in every locality. Special inducements to experienced separator salesmen.

The Omega Separator Co.
23 Concord St. or Department F.
Lansing, Mich. or Minneapolis, Minn.

by using the gravity system. New skimmed milk was not in existence before the advent of the centrifugal cream separator. Many persons incorrectly think of separator skimmed milk as the same old product left after taking the cream from the top of the milk, but new skimmed milk from the separator is a totally different thing. It has in it the sweet, nutritious sugar of milk, while in the old, this wholesome sugar has turned to lactic acid or vinegar. Lean persons take sugar to get fat. Fat persons take vinegar to become lean. The difference you will notice is very considerable. New milk, fresh from the separator, has had the microbes and bacteria of disease removed from it by centrifugal force, while the old milk has been and is a feeding- and breeding-place for these same germs. Milk exposed to the air in setting will absorb any evil odor that may be in the apartment—and in the cleanest apartment there is more or less of odor and dust—while the separator almost entirely eliminates this exposure of the milk, thus producing sweeter, purer, better-keeping milk and cream and butter.

The separator more nearly than any other method secures all the cream or butter-fat from the whole milk. This is a proven fact, chemical tests have shown only a trace of fat left in separator milk. Some tests show only one five hundredth part of cream left in the skim-milk while in the old system tests have shown as high as $\frac{1}{4}$ to $\frac{1}{2}$ of cream left in milk. The care of cream commences the moment the milk is drawn from the cow. Clean hands and pails and careful straining are of course necessary, but above all the separator must be clean, or the cream is apt to be affected. If the cost of a separator seems high for a farm implement, please consider for a moment that it is an all-the-year-around machine, Sundays included, and not like nearly all other agricultural machines intended for use only a few days in a year. For example, if your binder is worth \$125 for ten days' work in a year, the interest on its cost is 75 cents per day of work. If the separator costs \$125 for 365 days of the year the interest on its cost is 2 cents per day of work or less than 3 per cent of the cost of the binder. Remember in counting the cost, that the separator must have a constitution like a man who never gets sick for it will not do to have the machine stop for a single day.

Another important step in favor of the separator is the churnability of the cream. With the old system much of the butter is always lost in the buttermilk and occasionally the cream will not churn at all. There is a web-like fiber or viscous matter derived from numerous conditions which gradually develops in all milk when it comes from the cow, increasing as the milk ages. This helps materially to retard creaming by the setting process and causes a great part of the trouble in the failure of the butter to gather in the churn. In the case of the separator the milk is separated very soon after coming from the cow, before the fiber has had time to develop, and what little there may be of it is thrown out of the cream and left with in the separator bowl. The consequence is, the separator cream readily turns into butter. The saving in time required for churning is fully one-half while the grain and texture of the butter will easily average from 10 to 20 per cent better quality.

By the aid of our merchants in Oneida I have been able to ascertain the number of pounds of butter and cream sold the past year. We find that this was 37,132 pounds of butter, sold at an average price of 13 cents per pound, which would make \$4,827. Now, we also find that there has been 11,300 pounds of butter fat or cream sold at an average price of 24 cents, which makes a total of \$2,712. We also find that if the people who sold this 37,132 pounds of butter had used a separator and sold their product at the same price, or 24 cents per pound, they would have received \$8,911 instead of \$4,827. In other words, they sold at a loss to themselves of \$4,084. This \$4,084 would buy 50 good separators.

FARMERS, There's a Reason



The basis of my business is absolute and unvarying integrity.
Samuel S. Thorpe

Why I can sell you improved farms or unimproved farming land in my part of Michigan cheaper than any one else.

One reason is, BECAUSE I represent the COLONIZATION BUREAU OF MICHIGAN RAILROADS which embraces all transportation lines traversing the lands I handle, enabling me to make you inducements impossible for any one else to offer you in my locality.

Another reason is, BECAUSE being more widely known, through the large line of advertising I carry, owners who wish to sell at fair prices list their properties with me.

Another reason is, BECAUSE I handle no insurance, stocks, bonds, city property or rents.

I Deal Exclusively in Farming Lands

My business is to sell farms and farm lands and I do it. I have sold thousands of acres to worthy people from the more well-settled parts of the country. You will probably buy of me when you see what a good offer I can make you, just as so many others have done before you. All I ask is that you will come to me and let me show you around, and I will help you in the matter of coming by reducing your railroad fare. When you look over my lands, use your own judgment. Seems to me this is fair. You owe it to yourself to investigate. I will treat you honorably and liberally—that's the way I have made my reputation.

The Cadillac Tract

which I am now offering is the biggest bargain I have handled. It embraces about 25,000 acres of splendid land around the city of Cadillac, distant from one-half to six miles. The main lines of the Grand Rapids and Indiana and Ann Arbor Railroads, branches of the Pennsylvania and Wabash Railroads respectively, run through the tract. The lands are also intersected by free gravel pike roads. Soil is good for crops that pay us best, climate is not at all severe, water is pure, soft and easily reached. Markets and the facility of reaching them better than in most other localities. I have an illustrated booklet and an accurate and comprehensive map of these lands which is free to you on your request. WRITE TO-DAY. IT WILL PAY.

SAMUEL S. THORPE, District Agent,
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The Cleveland



Cream Separator

the Separator that comes to your farm and works thirty days before you pay for it. Do you want to know how we can sell the Cleveland in this way and still save you from \$20.00 to \$30.00 on first cost?

Because no smooth talking agent gets a part of your money.

Because the Separator device is a wonderfully simple piece of aluminum mechanism that cleans like a dinner-plate and always skims perfectly.

Because
The Cleveland
is the only Separator

in the world having ball-bearings throughout and it runs 200% easier than any other Separator made. Write and let us send you the book that tells the whole story of the Cleveland. It is free. Write to-day. Address

The Cleveland Cream Separator Co.,
334 Michigan Street,
CLEVELAND, OHIO.

No expense to you to receive, try and return the Separator. We pay the freight both ways.

30 DAYS FREE TRIAL
ON YOUR OWN FARM

If You Need the Money

Begin to save it now. Your cows will help you. Our separator book will tell you how. Send for it today and you will find at least one stamp that was worth spending two cents for when you learn more about the

DAVIS CREAM SEPARATOR
They are popular because they make friends and keep them. They make friends because they are just what we say they are—Good money makers for the dairy farmer. Simple to understand, easy to handle, and the most durable machine of its kind. Let us tell you why. Our catalogue free.

Davis Cream Separator Co.
54-54 N. Clinton St., Chicago, Ill.



On the Trail with a Fish Brand Pommel Slicker

when windy, a rain coat when it rained, and for a cover at night if we got to bed, and I will say that I have gotten more comfort out of your slicker than any other one article that I ever owned.

(The name and address of the writer of this unsolicited letter may be had on application.)

Wet Weather Garments for Riding, Walking, Working or Sporting.

HIGHEST AWARD WORLD'S FAIR, 1904.

A. J. TOWER CO.
BOSTON, U.S.A.

TOWER CANADIAN CO., Limited
TORONTO, CANADA



FISH BRAND

The question is, can you butter-makers afford to lose this amount of money every year? It is an almost universal rule that when a separator is bought, a double number of cows is milked, than when using the old system, thereby greatly increasing the profits obtained by the use of a separator.

The separator has for a number of years been the "keystone" of progress in dairy farming. It has been the most potent of dairy educators and its introduction has almost invariably proved the stepping-stone to advancement in every feature of dairy work and character of methods and utensils. It is an object lesson in up-to-date machinery. It is usually soon followed by a Babcock tester showing the actual, butter-fat value of the milk of each cow, by the weeding out of the poorer cows, an up-to-date churn, the use of better salt, better color, greater cleanliness, a more intelligent understanding of butter-making generally. Such improvement must necessarily lend its influence to other lines of farm work and the "leaven" of progress which the introduction of the separator provides is inestimable in its widespread results.

Stock which matures early, taking on flesh readily when it is young, will often give a profit where slow-maturing animals will fail.

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, 59. With thanks. MRS. H. M. WILSIE.

There is absolutely no need of the knife or burning plaster, no need of pain or disfigurement. The Combination Oil Cure for cancers is soothing and balmy, safe and sure. Write for free book to the Originator's Office, Dr. D. M. Bye Co., Drawer 505, Indianapolis, Ind.

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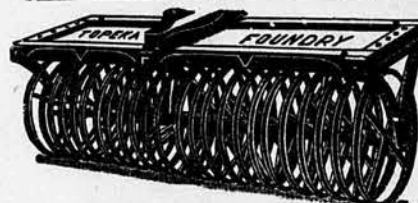
Makes the Best Time, with Best Accommodations.

Train No. 8 saves a day to New York

L. S. McCLELLAN,

Western Pass. Agent,

903 Main St., Kansas City, Mo.



When Frost Heaves the Ground

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

For prices and circulars, write

TOPEKA FOUNDRY, Topeka, Ks.

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POULTRY BREEDERS' DIRECTORY

SINGLE-COMB WHITE LEGHORN EGGS—From birds scoring 95%, \$1 and \$2 per sitting; circums furnished. Mrs. J. T. Jones, Galena, Kans.

FOR SALE—Barred Plymouth Rock eggs, from 40 large, fine, rock-shaped, single-standard hens. Orchard range, mated with standard-colored males, scoring from 91 to 92%, by Russell & Rhodes. Best eggs in the State for \$1 for 15. A. C. Rait, R. F. D. 4, Junction City, Kans.

WHITE WYANDOTTES—Eggs for hatching from choice matings, \$1 per 15; \$1 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.

LOOK HERE!—Try me on thoroughbred Black Langshan cockerels, 10 pounders. Prices right. Charles Leeper, Harper, Kans.

BLACK LANGSHANS—Exclusively; large, prolific layers; eggs, \$1 per 15. John Parsons, Clearwater, Kans.

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WHITE WYANDOTTE EGGS—For hatching, from large, high-scoring, heavy-laying strains, scoring 92 to 94; Arthur Dustin strain; \$1 per 13 eggs. Mrs. Eleanor Hustis, Onaga, Kans.

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FOR BUFF PLYMOUTH ROCK eggs, from best stock, send to Geo. Poultry Farm; 15, \$2; 30, \$3.50. Pure M. Bronze turkey eggs, 11, \$3. C. W. Peckham, Haven, Kans.

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The Poultry Yard

CONDUCTED BY THOMAS OWEN.

Push the Chicks.

The chirp of the young chick is heard in the land; and greater and greater will be the chirping as the spring days roll by. To push the growth of these youngsters and properly provide for them till they attain full maturity should now be the aim of the careful poultry-keeper. In the springtime of every year a great many people catch what is called "chicken fever." They enthuse and palaver so much about chickens that at times one might be excused for thinking them crazy. But their enthusiasm doesn't last. As soon almost as their chickens are hatched it grows cold and finally dies away. Just when the young chicks were needing care and attention, just then their interest in them ceased and the chicks were left to droop and die. Their enthusiasm and interest were not needed during the hatching period, for the incubator or the old hen attended to that part of the business. But when the real duty of feeding and caring for the chicks came, there was no one to attend to it and the chicken venture became a failure. We trust there are not many of this kind of people in the poultry-business. On the contrary, we hope most of them will take good care of their chicks from start to finish. It is essential that the chicks be fed and that constantly, all they will eat of sound, nutritious food. Not a good, large feed one day and hardly any the next, but a constant pushing of the growth of the chick. Not only should it have plenty of good, nourishing food daily, but it should have good care as well. It should be kept free from lice, for the latter are a great hindrance to its growth. They also should have dry and warm coops at night and a shelter for them to run into in the daytime when a sudden storm comes up. Eternal vigilance on the part of the poultry-raiser is the price of a plump, fried chicken on the fourth of July.

Poultry Pointers.

A very simple and harmless preventive of roup is provided by putting a handful of wood-ashes in the drinking water once a week.

The superfluous male in a flock is a waste of feed and labor. A vigorous male to ten hens is sufficient to insure fertility. In small flocks for eggs alone, dispense with the male entirely.

If fowls have roup, a very effective remedy is said to be, to dip the head of the affected fowl in pure vinegar morning and night. If they inhale or swallow a little of it, no harm will result, and the acid is beneficial when in contact with the inflamed mucous membrane.

Hens that are too fat to drop their eggs should not be given any corn or cornmeal but fed on oats or bran; a little whole wheat may be given every day. Keep them hungry so that they will scratch and work off the fat.

Charcoal is one of the most essential articles of food to successful poultry-farming. The best way to secure this is to place cobs of corn in the oven until charred and then shell off the corn to the fowls. You will soon see an eagerness developed and a healthy condition brought about. All pale combs will become bright red, and the busy song which precedes laying will soon be heard and the average yield of eggs greatly increased.

Don't overfeed your fowls. In the wild state, even a chicken knows when it has had enough and it never overfeeds. But the civilized fowl has lost all its wild sense and has no domesticated gumption to take its place. Watch carefully at feeding-time and see how much the birds will eat up clean with a relish, and you can tell how much to feed them.

There is a widespread opinion that salt is injurious to fowls, but it is an erroneous one. Recent experiments prove that salt is a necessity for chickens; and when it is supplied them

they keep in better condition and lay a larger number of eggs. Salt is one of the constituents of eggs and must be provided. Of course, an excess of salt is injurious, but if the soft food is seasoned with it, benefit will be obtained from its use, better than in any other way. Make it a rule to give your fowls a proportion of salt in their feed two or three times a week.

Many pullets and cockerels have crooked backs and crooked breast-bones because the chicken-coops are used with the palings so close together that the young chickens slip their little hips down when crowding and squeezing between the palings. Crowding chicks in small quarters will aggravate the evil. The slats in front of a chicken-coop should be three inches apart; and when they are weaned the door should be left open for them to go out. Stop this business of squeezing the chicks through the slats.

A man who gets the idea into his head that if ten hens will pay \$50 a hundred chickens will pay \$500, will soon join the ranks of those who claim there is no money in poultry. If hens are colonized in small flocks, they will pay; but with a hundred running together there is no way of picking out the drones, and some mighty good hens pay the board of some mighty poor ones.

Each housewife on the farm could make a tidy little sum if she would raise chickens, especially those who live near a large city. If they could make it their business to have a nice lot of broilers so they could fill a demand once a week, the best restaurants in the city would be glad to avail themselves of the chance to get them. Now is the time to hatch them—the earlier the better—for the earlier ones bring the best price.

Setting the Hens.

Perhaps not all of our readers are possessed of an incubator, some from choice, others feel that as yet they can not afford to own one; while there may be those who are just beginning to take up the rearing of poultry, and have as yet not investigated the merits of the artificial hatchers.

To all such the most economical manner of handling sitting hens will be timely advice. The sitter manifests herself at frequent intervals after the first days of spring are at hand, and it is not unusual in a flock of fifty hens to hear the cluck of several at a time. To the one who has no incubator this clucking has a sort of musical sound.

As soon as a sitter manifests her presence she should be taken from the nest during the following evening and transferred to a comfortable nest in a house, which may be given over to that purpose. Hens should not be permitted to carry out their plans of incubation in any place they may choose for various reasons. Nests in the poultry-house hardly meet the requirements, for the reasons that the laying stock will prove annoying to the sitter; while if they lay in the nests that are preempted there are certain to be unsatisfactory results following. Additional to this is the fact that the nests can not be removed and cleaned up as often as they should be for the welfare of the flock if several sitters are located in various parts of the poultry-house. Quite as important is the matter of quietude and comfort for the hen during the period of incubation.

With a house given over entirely for their benefit a large number can be accommodated at a time and the labor consumed in caring for them and their needs can be quite materially reduced if you have them all in one place. The nest-boxes are preferably made without a floor; merely a frame on three sides, of any light lumber, on which cleat a lid, and have a removable door that the hen can be confined until the hour of feeding and caring for her arrives. These frames are placed on the ground around the room, leaving the front an open space where she may be fed, watered and enjoy the pleasure of a dust bath occasionally.

Into each of these frames place a shovelful of earth and hollow out a nest in the center; a light covering of

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

S. C. B. LEGHORN EGGS—Champion layers. Cockerels from State prize winners. \$1 per sitting; \$5 per 100. Mrs. D. Evans, Edgerton, Kans.

WHITE WYANDOTTES Exclusively—Pure-bred and good layers. Eggs, \$1 for 15. Stock all sold. Mrs. C. E. Williams, Irving, Kans.

BLACK LANGSHANS—Eggs from pen No. 1, \$1.50; pen No. 2, \$1 per sitting of 15. James Bottom, Onaga, Kans.

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our country, and mankind."

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Grange Progressiveness.

For more than any other reason, because he is a home-maker, man needs the ballot. Woman's relation to the home as home-keeper is stronger, finer, closer; and quicker than man she recognizes the defects of environment that result from bad government, and she suffers more from neighborhood nuisances. If the schools are below the standard, she is the first to discover it. When an evil influence overshadows a community, she is the first to note its presence.

Man, absorbed ten or more hours of the day in business pursuits, fails of this consciousness except as it touches home interests.

The ideal home is that in which the father and mother have equal power and where the best characteristics of both find expression. The home interest is paramount in good government, and by according woman the franchise the continued supremacy of the home and the permanency of institutions are secured.

One-half of the people of America are farmers and the Grange is their organized representative. In the Grange men and women are accustomed to work together on terms of perfect equality, on all questions relating to the welfare of the farmer and his home.

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We issue the best book ever written on incubators—written by a man who has spent 23 years in perfecting them—by the man who made the Racine. It tells facts that you must know to get the right incubator. Don't buy without reading it, for the book is free. We Pay the Freight.

Racine Hatcher Co., Box 88, Racine, Wis.

Warehouses: Buffalo, Kansas City, St. Paul.

INCUBATOR

Johnson started his new Pay-for-Itself hatcher last year and raised a rumpus with high prices. Don't get fooled. Put your trust in

Old Trusty.

The Incubator that is sent on **40 Days Trial** Five Year Guarantee.

The training he got making 50,000 other incubators enabled him to make "Old Trusty" right. Every user says it's right. No other incubator ever got in first rank the first year. You should get Johnson's Free Catalog and Advice Book. He wrote it. Makes his success your success.

M. M. Johnson Co., Clay Center, Neb.

DO YOU KEEP BEES?

Then learn how to make them pay by sending for our large illustrated FREE catalog for 1905, showing the latest up-to-date hives, and all other goods used by progressive bee-keepers.

JOS. NYSEWANDER, 563-567-569 7th St., Des Moines, Iowa.

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.

TOPEKA SUPPLY HOUSE, 632 Quincy St., Topeka, Kansas

voters in everything that concerns the grange, but they are eligible to every official trust even that of master. In a large number of granges women are serving acceptably as masters.

Four offices are expressly reserved for women and can not be filled by men. So that in this organization women have a privileged position.

Grange Notes.

Do muddy roads, moonless nights, or a depressing sense of "so much to do" keep you from Grange meetings? They should not. An hour or two at grange, exchanging fraternal greetings, accomplishing something for the "good of the order" will send you home rested and happy.

Are the granges of Shawnee County taking up the "good-roads" question. Is not the season upon which we have just entered sufficiently opportune? Attend to road-making while good weather permits the undertaking.

Oak Grange is preparing to experiment in "Nitrogen cultures."

A Living Monument.

If we were to assemble all those who have been cured of heart disease by Dr. Miles' Heart Cure, and who would to-day be in their graves had not Dr. Miles' been successful in perfecting this wonderful heart specific, they would populate a large city.

What a remarkable record—a breathing, thinking, moving monument, composed of human lives,—that for which every other earthly possession is sacrificed.

The Miles Medical Co. receive thousands of letters from these people like the following:

"I feel indebted to the Dr. Miles' Heart Cure for my life. I desire to call the attention of others suffering as I did to this remarkable remedy for the heart. For a long time I had suffered from shortness of breath after any little exertion, palpitation of the heart; and at times terrible pain in the region of the heart, so serious that I feared that I would some time drop dead upon the street. One day I read one of your circulars, and immediately went to my druggist and purchased two bottles of the Heart Cure, and took it according to directions, with the result that I am entirely cured. Since then I never miss an opportunity to recommend this remedy to my friends who have heart trouble; in fact I am a traveling advertisement, for I am widely known in this locality."

J. H. BOWMAN, Manager of Lebanon Democrat, Nashville, Tenn.

Dr. Miles' Heart Cure 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

POULTRY SUPPLIES

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

OWEN & COMPANY

520 Kansas Ave., Topeka, Kans.

The Superior Cream Separator

Gets ALL the Cream in 60 to 90 minutes. Simple, scientific, practical. Never fails. 60,000 Farmers use it. Does not mix water with milk. Least trouble and expense. Our Binding Guarantee assures your satisfaction or money back. Write today for particulars.

Superior Fence Machine Co., 810 Grand River Ave., Detroit, Mich.

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 WRITTEN LEGAL GUARANTEE. My fee depends on my success. Send for free 100-p. book and positive proofs.

DR. E. O. SMITH, 2836 CHERRY ST., KANSAS CITY, MO.

VARICOCELE

SAFE, PAINLESS, PERMANENT CURE GUARANTEED 15 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.

GRAND ISLAND ROUTE

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.

Miscellany

IDAHO THE USEFUL.

A Wonderful Irrigated Farming Country of Great Extent—Four \$1,000,000 Beet Sugar Factories—What the Farmers Have Done in Irrigated Farming.

St. Anthony, Fremont County, Idaho, March 16, 1905.

As I stand here in the streets of St. Anthony, Idaho, the county capital of Fremont County, I am able to look over a country as large as one of the New England States, of wide prairies, rolling foot-hills, and towering mountains thirty to seventy-five miles distant.

Away to the eastward, catching the rising sun at a distance of sixty miles, rise in their imperial majesty the triple heads of the Three Tetons, almost three miles above ocean tide and seeming to hold up the very sky. In all the region around these mighty buttresses is found the best large game and fishing country in these United States, but it is not with these matters that I have to deal in this letter.

What appeals to me most, as I drive over and examine this vast, irrigated farming country, is its table-like smoothness, its complete system of irrigation canals and lastly, its incredible yields of small grains, grasses and sugar-beets. What I am going to tell your readers will look almost unreasonable to them but I have carefully verified every figure I am going to give as to the yields secured by the farmers in this country. They are a matter of common knowledge here and there are hundreds of farmers who will bear out every figure I quote.

This is a big country—a big, level country. It looks like a smooth table of absolutely level land for miles and miles around St. Anthony, but it is in reality not so, for there is a considerable slope to the west and southwest that can not be seen by the eye but is denoted by the brisk flow in the irrigations canals and in the big, rapid-flowing Snake River. There are three different kinds of soils in this country. Upon the Egin Bench west and southwest of town it is what they call here a fine decomposed basalt, jam full of fertility, and the prettiest land to plow I have ever seen. It is not a sand but just a deep, gritty soil that two horses will pull a plow through almost down to the beam. Upon the east and south side of the Snake River is an extensive country, a part of which is a rich, loamy clay and a part is a black soil with a small amount of gravel in it. I can not see that there is any difference at all in the size of the stubble on these different kinds of soils; at least people here tell me there are not three bushels to the acre variation in the yields on any of these different kinds of soils and they are all the most beautiful land to cultivate I have ever seen on account of their perfect smoothness and the loamy nature of the ground.

On all these lands irrigation is the rule but farther eastward from St. Anthony is a very extensive country called the Marysville and Squirrel Creek country, where the rainfall is much larger, and regular crops are raised, dependent upon rainfall alone. Here some very large yields have been secured without irrigation. One farmer raised 350 bushels of barley from 7 bushels of seed; and ordinarily fifty bushels of oats are raised per acre. No rainfall farming anywhere can equal in big yields and certainty of production those secured by irrigation.

This is indeed a land of "many waters." Great streams of water clear and pure, run in the irrigation canals through and across the fields and along the roads, and the roads here are all 100 feet wide so you ride right along by clear running streams everywhere, no lack of stock water here. There are over 1,200 miles of irrigation canals in Fremont County and more are building all the time. They are not owned by corporations and companies but were built and are owned by the farmers themselves, and the yearly cost of water per acre is consequently very low indeed, ranging only from 10 to 15 cents per acre, which is as nothing when the certainty and bigness of the crops are insured thereby. Farmers here say that they like irrigation because life is too short to have any short crops; not to speak of failures, and irrigation makes their crops big every year and no slips at all; in fact a farmer said to me to-day that he could just about tell what yield he would have a year before his crop was harvested so certain and regular are the yields secured in this way of farming.

Some of these canals are almost rivers in size. Many of them are 30 feet wide and 3 to 5 feet deep and as we drive across them the water often runs into the buggy-box. Here it almost seems as if they can make water run up hill; canals cross each other in all directions and when they meet one is carried in a board flume right over the other.

But of all the remarkable things about the way they carry on irrigation here is that they do not, except upon the clay loams, have to run the water over the land. The water is just turned into the small furrows plowed across the land at intervals of two or three hundred feet and it soaks into the ground and makes the crops jump under the warm summer sun of this fine climate.

One farmer who lives four miles west of town who is farming 160 acres tells me that he has raised 110 bushels of oats per acre and that his average, year by year, is over 75 bushels per acre, and those oats weighed from 40 to 46 pounds to the measured bushel. As I tested them they were heavy in my hand like wheat, with large, plump berry and bright color.

This farmer feeds his cattle on beet pulp from the sugar-factory which he gets for 35 cents per ton and that with oat-straw has brought his cattle through the winter at small cost and in prime shape. His sugar-beets turned off 16 tons per acre upon an average from 20 acres he had in last year. This is surely the chosen home of the small farmer. I have traveled over seventy-five miles and have yet to see even one poor stubble-field. The stubble is all alike, that is, big, stiff and strong, for at this season I can only

judge from the grain in the bin and the stubble in the fields.

I will now give some facts and figures that are fit food to ponder over. The average yield of wheat upon irrigated lands is forty bushels per acre, of oats 75 bushels per acre, and of barley 65 bushels per acre; and with such yields as these there must of necessity be the very finest quality and heavy weight per bushel. Wheat is usually 65 pounds, oats 40 to 46 pounds and barley accordingly to the measured bushel. Potatoes make ordinarily from 300 to 500 bushels per acre. There is a sack of spuds here that weighs 100 pounds and contains but 16 potatoes. One of these potatoes alone weighed 10 2-3 pounds. Potatoes here are right at the front as you can see.

Prices at present are about as follows: Oats 42 cents per bushel; wheat 82 cents per bushel; barley 56 cents per bushel; hay in town (alfalfa) \$6 to \$10 per ton, and in the country for feeding from stack \$4 to \$6 per ton. Alfalfa here is cut twice a season and yields four tons per acre besides the grazing gotten from it. All clovers do well but alfalfa is the crown and pride of Idaho, as it is of the other Pacific Coast States.

This is a fine cattle, sheep and horse country. The millions of acres of tall, bunch-grass range and abundance of feed raised by irrigation makes stock-raising profitable. Butte, Portland, and San Francisco are the principal markets here on the Coast.

Here are some yields secured around St. Anthony: A farmer four miles out raised 75 bushels of wheat and 112 bushels of oats per acre. Another got 565 bushels of wheat from 11 acres. Still another had no failure of wheat for ten years and an average for that time of 55 bushels per acre. Another secured 41 bushels per acre from 80 acres. One raised 112 bushels of oats per acre weighing 46 pounds per bushel. Another thrashed 110 bushels field peas to the acre. Another one-dug 533 bushels of potatoes from one acre. Twelve St. Anthony potatoes weighed 51 pounds. This is not Georgia, but one watermelon raised here weighed 43 pounds. All these yields are matters of common knowledge here and can be verified as absolutely correct.

But biggest of all and full of meaning to this country are the four big beet-sugar factories, now completed and in operation in Fremont and Bingham Counties, its neighbor on the South. Over four million dollars have been invested in them and their great buildings and 200-foot chimneys tower high above the level farmsteads and dominate the level landscape. Over 7,000 acres of sugar-beets were raised within sight of St. Anthony last year and more will go in this year. These big factories show what capitalists think of this country. Sugar-beets run high in sugar here and are a source of big money to the farmers and they are running up the price of land fast, though it is still reasonably low and still within the means of the thrifty, industrious farmer.

The beets raised here run from 10 to 25 tons per acre in yield. The price paid anywhere at the railroad stations of the Oregon Short Line is \$4.50 per ton. If everything is hired, the cost of raising and harvesting is \$40 per acre and profits run from \$5 to \$72 per acre. Is a business that gives employment to the children as well as grown people and it is therefore a big money-maker in the country. I went to one big million-dollar factory south of St. Anthony yesterday and saw sacks of sugar sufficient in number to fill two or three grain elevators in an Illinois or Minnesota town. I notice that since they have put in these big factories, the farmers are building fine brick and stone residences all over this extended farming country; for this is by no means out of the world; they have telephones at nearly every farmhouse and these make the farmers independent of transacting business and getting the news.

This town of St. Anthony is the county seat and a sure hustler. It is built on the banks of the Snake River and its site is very attractive. There are fine brick and stone buildings and more going up. It has two banks full of farmers' money and its large and well-assorted stocks of goods are the best indication of the fast-growing wealth of this country. They have electric lights, and power, water-works, and the purest water that can be found, for it is derived from the melting snows of the high mountains of the main range of the Rockies to the eastward and northward. Many farmers who have already become wealthy are renting their farms and moving to town to educate their children and as they can rent their farms for a cash rent of from \$7 to \$10 per acre and for sugar-beet crops they can get a big income in that manner.

What this sugar-beet business means to this country can be well understood when I say that farmers around here will be paid alone from one factory over \$500,000 for their crop of this year's beets.

I have already made this letter too long. I will cut off right here but it would take volumes to do justice to the farming advantages of this grand region. But, one word more.

Land under irrigation can still be bought here at a low price. Twenty-five miles northeast of St. Anthony are 6,500 acres of new irrigated lands of fine quality that can be bought for \$10.50 per acre with a small first payment down and long time at low interest. In due time these lands will go to \$50 to \$100 per acre. The United States Government is now considering a project for watering a very fine tract of homestead land of 350,000 acres lying from 18 to 40 miles west of St. Anthony.

In the older well-settled and developed country around St. Anthony improved and unimproved land of the best quality can still be purchased at very reasonable cost, considering the big profits realized from small grain and sugar-beets; but the coming of the beet factories near here is causing land to rise rapidly in value. To the northeastward is the extensive rainfall country where thousands of acres of grain are raised without irrigation and where there is an abundance of rich, low-priced land still to be had.

DAVID R. M'GINNIS.
(I have read with a great deal of interest this prospectus and can heartily endorse the statements contained therein. F. R. Gooding, Governor of Idaho.)

When the prominent citizens of an ambitious, growing city like St. Anthony, Idaho, advertise their country it means that they have a good one. That is what they have done and the fact that four big

THE JAYHAWK STACKER

BEST STACKER ON EARTH

Can handle more hay than any other, and do it BETTER and EASIER

It is the only Stacker made that CAN PLACE THE HAY in absolutely ANY SPOT on a rack of any length.

No staking down. No time lost in moving. Keeps four sweepstakes busy without killing the man on the stack—the team does the work

If you have a few acres of hay, you are interested in this labor-saving machine.

We also manufacture sweep rakes which leave the hay on the fork instead of dragging half of it off while being backed out.

We sell direct to the farmers and guarantee satisfaction. Write for descriptive circulars.

The F. Wyatt Mfg. Co., Salina, Kas

ARE YOU ALIVE?

To the advantages of the "Great Snake River Valley," St. Anthony, Fremont Co., Idaho.

which lies in the very heart of this great fertile, irrigated valley, offers opportunities to live men who are looking for a home, or profitable investments. Sunshine, pure air, pure water, big crops, land as rich and fertile as the Garden of Eden, and no failure of crops. "You do your own raising, and it's easy." Good church and school facilities. Reliable and detailed information BY ANY of the following firms of St. Anthony, Idaho: First National Bank; C. C. Moore Real Estate Co.; Wm. D. Yager Livery Co.; Murphy & Bartlett, Cafe; Commercial National Bank; C. H. Moon, Farmer; Chas. H. Heritage, Commercial Hotel; Miller Bros., Grain Elevator; Skelet & Shell, General Merchandise; Chas. S. Watson, Druggist; Gray & Ross, Townsites; W. W. Youmans, Harness Store.

A WHEAT FARM IN WASHINGTON

Fortunes are made in one year raising wheat in Washington. We have a wheat farm for you in Yakima County, Washington, any size you want from eighty acres to five thousand acres. Last good, low-priced land left on the Pacific Coast. Prices from \$2 per acre upward, according to location and quality. Easy terms. Low interest rate. Wonderful alfalfa fruit and vegetable country, in a mild climate of sunshine, where you can be outdoors in comfort every day in the year. If this is what you have been looking for, we have it. Springs, creeks, smooth, exceedingly rich land.

We own 37,000 acres of Wheat Land.

Write, or call on us at once for complete information.

THE COOK-CLARK CO., Rooms 1, 2 and 3, Van Valkenberg Bldg. Spokane, Wash Or North Yakima, Wash.

Why Will Men

farm from 160 to 200 acres and only make a living

When They Can

come to Kennewick, Yakima Co., Washington, and purchase a few acres of irrigated land under the Northern Pacific Canal and

Earn Two Thousand Dollars

per year raising strawberries and early fruits

Hesitate

and the opportunity is lost. Kennewick, the land of sunshine and flowers, invites your attention. Earliest fruit and berries. No drought or blizzards. Would you know more of the country, write to KENNEWICK LAND CO., Kennewick, Washington.

Come to Idaho

Level, enormously productive soil, Eastern Snake River Valley. Irrigation. Immense crops fruit, wheat, oats, barley, alfalfa and vegetables. Great range and stock country. Four sugar factories, cost \$1,000,000 each. Abundance purest water. Good markets. Farm lands, \$5 to \$100 per acre, according to location and improvement. Fine climate. Best schools and churches. Land for beets rents \$7 to \$10 per acre, cash. Free pamphlets and information. Address C. C. MOORE REAL ESTATE COMPANY, St. Anthony, Idaho.

Rogue River Valley, Ore.

Has most diversified products of any section of the Pacific Coast. Best apples, best pears, best canning peaches, best table grapes, best apricots grown west of the Rockies. The ONE country where four crops of alfalfa hay are obtained annually, without irrigation. Perfect winter climate; cool nights in summer. Intending settlers wanting reliable information should write Secretary of Medford Commercial Club, Medford, Oregon, at once.

HERE IS YOUR OPPORTUNITY—Do you want to engage in Business or Manufacturing? Do you want to live in a mild and equable climate, in a large and growing seaport and manufacturing center with superior Educational, Religious and Social advantages.—TACOMA offers this and more. Surrounding country is rich and farmers prosperous. We welcome you in city home or on country farm. We send you, free complete written and printed information. Write now. TACOMA CHAMBER OF COMMERCE, Tacoma, Washington.

CRIPPEN'S COMPOUND CURES

Heart Disease and Rheumatism. We guarantee it by refunding money if not satisfactory. Price, \$1.00 per bottle, postpaid. CRIPPEN MEDICINE CO., 210 N. Main St., Wichita, Kans. Reference, Kansas National Bank, National Bank of Commerce, and National Bank of Wichita.

FREE LAND IN OREGON

In the richest grain, fruit and stock section in the world. Thousands of acres of land at actual cost of irrigation. Deed direct from State of Oregon. WRITE TO-DAY. BOOKLET and MAP 4 cents in stamps. Deschutes Irrigation and Power Company, McKay Building, Portland, Oregon.

STOP OFF AT SPOKANE and look over the richest agricultural and fruit-growing district in the world, when you go to the Lewis & Clark Exposition. You can double your money in two years by purchasing land at present prices, \$1 to \$25 per acre. Volcanic ash soil, unequalled for productivity. The man of modest means finds here his chance for wealth and happiness. Free literature, giving reliable information as to the delightful climate and rich natural resources of the Inland Empire. Correspondence solicited. Address Spokane Chamber of Commerce, Spokane, Wash.

I'd Like to Send You My Easy Money-Making Plan

Pay me 10 cents if it suits you. You are the judge.

Henry Endsley, Ellensburg, Kittitas Co., Wash.

PATENTS.

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

one-million-dollar sugar-beet factories are now in operation near that place tells the story of the wonderful fertility and productivity of the Snake River Valley of Idaho. There are wonderful opportunities for securing investments in such a country as that and a line dropped to any of the firms who sign the advertisement upon another page will bring valuable information in detail about that country.

Those intending to visit the great Northwest will find inspiration and incentive in the perusal of a pamphlet of eighty-eight pages issued by the passenger departments of the Oregon Railroad and Navigation Company and the Southern Pacific Company, of Portland, Oregon, entitled "Oregon, Washington and Idaho and Their Resources." Its beautiful illustrations represent the climate, irrigation and productions, the marvellous natural growth of timber, fruit and vegetables, the fish and fishing, mining, and lumbering. A large map of the three States is included in the book.

The real estate firm of C. C. Moore Real Estate Co., of St. Anthony, Idaho, have some of the best farm lands in the United States for sale at reasonable prices and terms right in the center of the great beet-sugar factory district of Idaho. Over four millions of dollars have been invested in these great factories which shows the unusual value of that section for farming purposes. Drop them a line for particulars.

The Medford Commercial Club of Medford, Rogue River Valley, Oregon, advertises the advantages of Southern Oregon in this issue. The fine climate, growing even palm trees and figs in the open air, the high prices received for apples, pears and other fruits have contributed to push that country right to the front, and it is developing and settling rapidly.

The Markets

Kansas City Live-Stock Market.

Kansas City, Mo., April 3, 1905.
All grades of killing cattle advanced 15¢ to 25¢ last week, best feeders some higher, others about steady, stock cattle a little weaker. This is the fourth successive week of gains in the cattle market, and everything indicates that prices will be higher this week. Market to-day is strong to 10¢ higher, and \$6 was paid for top quality beef steers, nothing fancy about them, without much of a stir about it. Prices are now such that nearly everything is making money for the feeder, and the steadily advancing market has made money for regular shippers.
Supply of cattle to-day is moderate at 7,000 head here, and with the advance of 5¢ to 10¢ to-day, and with the light run, prospects look good for balance of week. The highest price paid last week was \$6, on Wednesday, which was equaled to-day. A split out of the \$6 cattle here to-day sold at Chicago at \$6.35, indicating that both markets are well in line with each other. Most of the beef steers sell at \$6 or more, medium to common ones down lower, of course. Heifers sold at \$5.15 for choice ones last week, and most of the heifers sold at \$4.25 and more. Choice heavy cows sold at \$4.45, and bulk of cows \$3.50 to \$4.25. Veal calves gained a little, for best ones. Shippers should remember that calves must be 30 days old before they can be sold here for veal, according to a ruling of the Government. Instead of 10 days old, as previously. Heavy feeders sold at \$4.75 to \$5, stockers \$3.75 to \$4.65. Demand for country cattle is not as strong as a week or two ago, but more than 1,600 cars went to the country from here in March, the largest buying for that month on record.
Hog markets have been irregular, but finally closed last week Saturday as good as any recent time, but \$5.37½. To-day prices are lower again, with a top of \$5.30, bulk of sales \$5.10 to \$5.25. Light hogs up to \$5.25, pigs \$4.35 to \$4.55. A readjustment of relative prices for heavy hogs and medium weights is taking place, the lighter weights gradually coming to the top.
Yearlings and lambs showed a little lower at the end of last week, but ewes and wethers continue firm, account of scarcity. Total supply is light, and strong prices will probably rule a few weeks longer. Best wethers now sell at \$7.35, yearlings \$6.75, wethers \$5.90, ewes \$5.75, fair to good stuff 25¢ to 50¢ below these figures in each class. Supply to-day 4,000 head, market steady on lambs and yearlings, strong on ewes and wethers.
J. A. RICKART.

South St. Joseph Live-Stock Market

South St. Joseph, Mo., April 3, 1905.
A continually advancing market and great activity in buying has characterized the beef-steer market for the past week. The demand has been good for the good to choice export and shipping grades as well as the good light and medium weight butcher steers, and these grades generally show an advance of 25¢ to 35¢ as compared with a week ago; good heavy export and shipping kinds weighing from 1,300 to 1,600 pounds are selling at \$5.65 to \$6, while desirable grades weighing from \$5.50 to \$6, the kinds selling at \$4.50 to \$4.65 are the same grades that were selling at \$4.25 to \$4.65 a week ago. Supplies have been totally inadequate to meet the packing demand, and many more could have been sold to the advantage of the shipper; choice to fancy cows and heifers have been conspicuous by their absence, and there has only been a very small proportion of killers in the offerings; these grades are now 15¢ to 25¢ higher than a week ago and in excellent demand but canning stock is of rather slow sale at last week's prices. Good, fat heavy bulls are fully 25¢ higher and the bologna kinds show but little strength; veals are unchanged at \$2.50 to \$2.60 for common to choice. Regardless of the advance in beef steers, the stocker and feeder market to-day showed 10¢ to 15¢ decline which applied practically to all classes of steer stock. Regular dealers have a large number of high grade young stock and desirable feeders on hand, and in view of the advancing market on beef

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.

RED POLLED BULLS—For sale; all ages, fine ones, just what you are looking for. H. L. Pellet, Eudora, Kans.

FOR SALE—Registered Aberdeen-Angus, 17 bulls, 10 to 20 months old, or would exchange. Also a number of cows and heifers at reasonable prices. 90 head in herd. A. L. Wynkoop, Bendena, Kans.

A GOOD GALLOWAY BULL FOR SALE—Cheap—Prince of Hinkton, 4 years old, is all right in every way, but I can't use him any longer. Thos. Gribben, Hope, 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 3, 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, Kans.

FOR SALE—Shorthorns—One herd bull, Greenwood 16586 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. Brockelsby, 515 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, Kans.

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

HORSES AND MULES.

2 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-thirds 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. Axtel, Newton, 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 6 years old; also a three-quarter grade, coming 5 years old, weight 1500, a good individual and breeder. R. E. Casad, Ocheltree, 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.

EIGHT DUROC BOARS at a special low price to close out, weighing from 100 to 175 pounds; also a lot of winter pigs. A. G. Dorr, Osage City, Kans.

DUROC-JERSEY fall gilts and sows bred for fall litters by 5 leading males. Address 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 sold. 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 Corrector Woodburn, and K. O. Perfection, out of Sunshine and Tecumseh sows. E. J. Knowlton, Prop., Alden, 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.

steers they should look very attractive to the country at the lower range of prices. Thin stock cows and stock bulls are in great demand on country account and the large number of orders for this class of stock remain unfilled for lack of supplies.

The hog trade shows little variation from a week ago, prices fluctuating narrowly from day to day; prices to-day range from \$5.20 to \$5.32½ with the bulk at \$5.20 to \$5.30, while there are a great many of the traders talking \$6 hogs for the future, the more conservative believe that there is nothing in conditions to warrant any permanent increase in values, and are advising their customers to ship everything as soon as ready. Although prices in South St. Joseph are relatively higher than competing points supplies are far from being sufficient to meet the requirements of the packers.

The record on sheep and lamb receipts was broken again to-day by the arrival of 15,044 head as against 13,405 for last Tuesday which was the previous high mark; while certain grades of lambs probably sold about 10¢ lower, the market as a rule was steady on best lambs as well as sheep and trade was very active, the big supply changing hands comparatively early in the day. WARRICK.

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POULTRY.

SUNNY SUMMIT FARM—Pure-bred poultry: Stock and eggs for sale from high-scoring varieties of S. Spangled Hamburgs, S. C. and R. C. Brown, S. C. White Leghorns, S. C. Black Minorcas. Eggs, \$1 per 15; M. B. Turkey eggs, \$2 per 9. Vira Bailey, Kinsley, Kans.

MAMMOTH B. TURKEY EGGS—Pure-bred, farm-raised, large, healthy stock; eggs, 25 cents each. J. A. Creitz, Beloit, Kans.

R. C. RHODE ISLAND REDS and W. P. Rocks. Eggs, \$1 to \$2 per 15. Send for circular. A. D. Williams, Route 3, Inman, Kans.

MAPLE HILL Standard-bred S. C. B. Leghorns champion layers, none better; cockerels from State prize-winners. \$1 per sitting; \$5 per 100. Mrs. D. W. Evans, Edgerton, Kans.

BARRED ROCKS EXCLUSIVELY—Thompson, Lefel and Conger strains; headed by cocks scoring 91 and over. Eggs, \$1 per 15; \$5 per 100. A few cockerels left. Mrs. Chas. Osborn, Eureka, Kans.

BARRED PLYMOUTH ROCKS 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.

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; 300 Palmetto asparagus, \$1. A. J. Nicholson, Manhattan, Kans.

STRAWBERRY, Blackberry and Raspberry Plants—Best varieties, low price. J. H. Wendell, Route 5, 2½ m. north on Central Ave., Topeka, Kans.

SPELTZ—Re-cleaned 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.

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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.

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FOR SALE—Speltz, 60 cents per bushel; Soy-Beans, \$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.

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OTTAWA COUNTY 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; 320 acres, fair improvements; 180 acres broke, 4 miles from town, R. F. D. Price, \$15 per acre. 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.

160 ACRES, three-fourths mile from Bucklin, southeast part of Ford Co., one-half smooth in cultivation, balance pasture, 7-room house finished, 40-foot barn; other improvements to match. Price, \$3,500; \$2,000 cash. No agents. E. A. Gildemeister, Bucklin, Kans.

FOR SALE OR EXCHANGE—Land, merchandise and city property. Let me know what you want to buy sell or trade. A. S. Quisenberry, Marion, Kans.

TEXAS BARGAIN—960 acres, 800 in wheat, 18 horses, 10 cattle, thrasher outfit worth \$2,000, finest of land, will make 16,000 bushels wheat this year. Price, \$30 per acre; one-third cash, other in four payments. Great wheat belt of Texas. G. J. Clark & Co., Iowa Park, Wichita County, Texas.

BARGAIN in Finney County ranch, near town and suitable for horses, cattle or sheep. If you want to buy land in Central or Western Kansas, either for a home or an investment, write me giving full description of what you want and I will find it for you. J. J. Hazlett, Sterling, Kans.

TWO SNAPS—160 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.

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

FIFTY farms in Southern Kansas, from \$15 to \$70 per acre; can suit you in grain, stock or fruit farms. I have farms in Oklahoma, Missouri and Arkansas for sale or exchange. If you want city property, I have it. Write me. I can fix you out Wm. Green, P. O. Box 966, Wichita, Kans.

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

Stray List

Nemaha County—B. F. Eaton, Clerk.
HEIFER—Taken up by Isaac M. Zubler, in Washington tp. (P. O. Bern), Feb. 9, 1905, one red yearling heifer; valued at \$14.
Pottawatomie County—C. A. Grutzmacher, Clerk.
STEER—Taken up by H. W. Hoffman, in St. George tp. (P. O. St. George), March 10, 1905, one 2-year-old steer, red with white spot in face, on left shoulder and hip; valued at \$30.
Cherokee County—R. G. Holmes, Clerk.
MARE—Taken up by John Peters in Spring Valley tp. (P. O. Baxter Springs), one 11-year-old bay mare, branded "C" on left shoulder.
HORSE—Taken up by Ira Harman, in Spring Valley tp. (P. O. Baxter Springs), one 12-year-old roan horse; 5 feet 2 inches high.



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, \$3.50 by mail or express, prepaid. Write for sample sheets and testimonials. Address H. G. PHELPS & CO., Publishers, Bozeman, Montana.

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

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Young stock for sale.

DUROC-JERSEYS—Large-boned and long-bodied kind. A fine lot of fall pigs (either sex) for sale. Prices reasonable.
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Now numbers 150; all head for our two sales, October 25, 1904, and January 31, 1905.
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Duroc-Jersey Swine, Shorthorn Cattle and B. P. Rocks.
FOR SALE—Two September 27, 1904 males. Eggs 75 cents per 15; or \$4 per 100.
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Gilt-edged Duroc-Jersey Swine.

FOR SALE
Twelve head of pedigreed Duroc-Jersey boars, good color; weigh from 150 to 175 pounds; at farm-ers' prices, \$9 to \$12 each.
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A few gilts and 7 fine young boars for sale. Bred sow sale at Concordia, Feb. 21, 1905.
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Fifteen choice bred sows and gilts and two young male pigs for sale. Write for prices, breeding, etc.
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All stock registered. Pigs for sale weighing 150 to 200 pounds, both sexes. Will have sows for early farrowing at \$20 each. Spring males and gilts, \$10 to \$15. Address
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For sale, an extra fine lot of young boars large enough for service. Bronze turkeys, Barred Plymouth Rocks and Brown Leghorn chickens for sale.
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For Sale—At reasonable prices, some fine October pigs, male and female; also some tried sows, bred and open. Our yearling herd boar, Wheatland Daddy 23905, sire Nathan 6397, dam Lincoln Lass 32792, will also be sold.
GEO. G. WILEY & SON, South Haven, Kans.

MINNEOLA HERD Duroc-Jersey Swine
Prince 17799 and Red Rover 27665 at head of herd. Young boars and bred and open gilts for sale.
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Phone 891 G.

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Now offering males only. Bred sows and gilts reserved for Feb. 22, 1905 sale. Visitors welcome and prices right. Can ship on Santa Fe, Mo. Pacific and Rock Island railroads.
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FOR SALE Poland-China Hogs, Holstein-Friesian Cattle; either sex. Best strains represented. H. N. HOLDEMAN, Rural Route No. 2, GIBARD, KANSAS.

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A few choice sows bred to Harmonizer. Also a few young boars. M. S. Babcock, Nortonville, Kans

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Woodbury 33838, Highroller 33839 and Perfection's Profit 33233 at head. Sows of the most popular strains. Visitors always welcome.
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Has fifteen Sunshine gilts bred to a son of Mischief Maker, and some sows carrying their second litter and some good boars. Also White Rose Comb Leghorn eggs.
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POLAND-CHINAS

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Empire Chief 80379, heading champion herd and winner in class at Iowa and Nebraska State Fairs. He is of great size and finish. sire Chief Tecumseh 3d and out of Columbia 2d. The combination that produced so many State fair champions. A grand lot of sows bred to him; and summer bears for sale at reduced rates. Try me for quality and prices.

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

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I have for sale two herd boars, one sired by the great Missouri's Black Perfection, the other by Perfection Chief; they are extra good. Also 25 large, big-boned, growthy spring boars and about the same number of gilts. My specialty is to breed the kind that is the most profitable.
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For Sale, at bargain prices, from now till January 1, 1905, four boars ready for service, sired by Sherman's Corrector, a half brother to Corrector 2d, the reserve champion at the St. Louis Expo ition, and out of up-to-date bred sows. Also a bunch of boars equally as well bred, sired by six good herd boars, and out of matured sows.

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Breeder of Improved Chester-White swine. Young stock for sale.

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Choice stock for sale. Prices reasonable. Come and see them or write to
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I have choice O. I. C. and Duroc-Jersey males. Also bred O. I. C. and Duroc-Jersey gilts for sale. B. P. Rock cockerels and eggs in season. Write or come and see

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

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My sows are sired by Elma's Prince 64778, and Berrington Duke 72946. Boar at head of herd, Jurists Topper 76277. Wm. McADAM, Netawaka, Kan

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Imported Blood

30 extra choice Boars, 100 to 150 pounds,
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Fancy heads, strong bone and all-around good ones. Bargains at \$15 to \$25 to close quick.

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

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

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Plainville Shorthorn Herd

Headed by Prince Lucifer 188685

A pure Scotch bull.

Stock for sale at all times.

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Breeder of Pure-bred Shorthorn Cattle.
Herd bull, Imported British Lion 133692. Bull and heifer calves at \$50.

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

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Sissy 849 of Vol. 40, Rose of Sharon blood, Norwood Barrington Duchess 854 Vol. 50, Bates blood. Pure-bred unregistered bulls for sale.
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The imported Mistle bull, Aylesbury Duke 158763 and the Crickshank bull, Lord Thistle 129960, in service. A few bred yearling heifers by Imp. Aylesbury Duke are now offered for sale. These heifers are in calf to my Crickshank bull, Lord Thistle.

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BURDEN, COWLEY COUNTY, KANS.

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Grand array of Scotch herd bulls. Victor of Wildwood 126054, Prince Pavonia 216307, Happy Knight by Gallant Knight 124468, and Charm Bearer. Good bulls and females always for sale. Show material. Visitors welcome.

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Forty miles south of Kansas City.

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Headed by the great Crickshank bull, Prince Consort 187008, sired by Imported Prince of Perth 153879, and out of own sister of Lavender Viscount 124755. For Sale: Lord Cundiff 214208 by Lord Mayor, Horace King 214282 by Lord Mayor, Silverthorne 214712 by Golden Day. These are long yearlings ready for heavy service. See or address

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Have a choice lot of young bulls, Scotch and Scotch-topped. About twenty are now ready for light and heavy service. Get prices and description. Sired by Baron Ury 2d 124970, Sunflower's Boy 127337, and Bold Knight 179054.

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

T. P. BABST & SONS, Auburn, Kans
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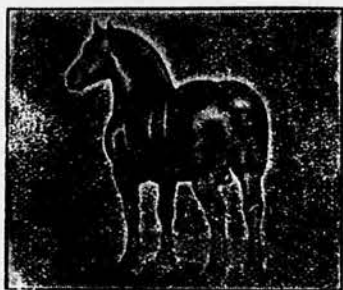
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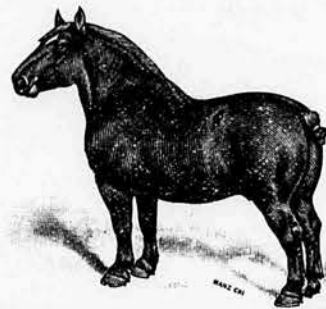
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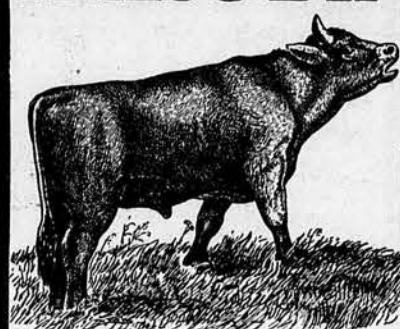
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