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BREEDERS' DIRECTORY.

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show-room. At the State show, January 8-14, 1895,
my birds took two first and three second premiums,
and only six birds were shown. Eggs for hatching
from as well-bred Barred Plymouth Rocks and
Light Brahmas as are in the West, for only \$1 per
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farms. We shipped 9,500 in 1893-94 into
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Champions of Two World's Fairs.
New Orleans, 1885, best herd, largest hog any breed.
At Columbian, Chicago, won ten out of eighteen first
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Imported and prize-winning American sows headed
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or come visit me and see the herd.

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Large Berkshire Swine.
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Headed by King Lee II. 29801, Mephistopheles 32412.

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A grand lot of sows bred to Monroe's Model, Excel,
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arrival and stock as represented or money refunded.
Breeding stock recorded in Ohio P. C. R.

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Cedar Point, Kas.
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Importer, breeder and ship-
per of
LARGE ENGLISH BERKSHIRE SWINE

of best families and breeding. Choice pigs for sale
at low prices. Also Single-combed Brown Leghorns
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Farm 6 miles south of Cedar Point. Mention K. F.

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O. 220 head in herd. Young boars and glits yet
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improved Chester White
Swine. Some fine young
boars fit for service for sale.
Correspondence invited.

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CHESTER WHITES AND
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Brahma eggs \$1.50 for 15.

HOLSTEIN-FRIESIANS
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Young bulls for sale. Red pigs in pairs, heavy bone,
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DUROC JERSEY REDS

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AND POLAND-CHINAS.

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Bulls all sold. Correspondence solicited, or, better
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Breeds and has for sale Bates and Bates-topped
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Choice young bulls for sale now. Visitors welcome.
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Breeders of
Hereford Cattle.

Choice stock for sale of both sexes. We will sell
any individual, a carload or the whole herd at rea-
sonable prices. Write or come and see us.
Address Florence, Marion Co., Kansas.

SWINE.

BERT WISE, breeder of Poland-China Hogs,
Holstein Cattle and Barred Plymouth
Rock Chickens of choicest strains.
Butler's Darkness No. 6846 S. and Ideal U. S. Nemo
at head of swine herd. Only choice stock shipped
on order. Sows bred and a few extra good young
boars for sale. Three are out of my Orient sows.
Write your wants. Satisfaction guaranteed.
BERT WISE, Reserve, Brown Co., Kas.

W. S. ATTEBURY,

Rossville, Kansas.
BREEDER OF
Chester Whites
Exclusively.
Young stock at all times. Satisfaction guaranteed.

BROWN COUNTY HERD, PEDIGREED POLAND-CHINAS.

ELI ZIMMERMAN, Hiawatha, Kas.
46 brood sows in herd, headed by Black U. S. Nemo
(Vol. 9), Model Wilkes (Vol. 9), Sunset Chip (Vol. 9)
and Billy Bundy (Vol. 9). Female lines: All Right,
Short Stop, King I. L. Wilkes, Free Trade, Wana-
maker. Aged sows, bred glits and fall pigs for sale.

2,806 Weight of Two
LBS. } O.I.C. Hogs
Fold 1673 in 1894 for breeding purposes.
Send for a description of this famous
breed. First applicant from each local-
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THE L. B. SILVER CO. Cleveland, O.

JOHN A. DOWELL'S HERD
REGISTERED POLAND-CHINA SWINE.
Robinson, Brown Co., Kas.
130 head, all ages, headed by Onward 5981 S.,
sired by George Wilkes. He is assisted by Tecum-
seh Wilkes, sired by General Wilkes 21297. The
females belong to the best strains. Come or write.

ELM BEACH STOCK FARM

IRWIN & DUNCAN,

Wichita, - Kansas,
Sedgwick Co.
Breed and have for
sale Bates and Bates-
topped Short-horns
—Waterloo, Kirklev-
ington and other fashionable families. Also bred
and have for sale the best thoroughbred Poland-
Chinas that can be obtained. Write or come and see.

(Breeder's Directory continued on page 16.)

FARMERS!

Prevent Your Hogs From Rooting

By Using the Genuine

WOLVERINE
HOG RINGER and RINGS.

Best and Cheapest in the market. For sale
at Hardware and General stores. Made by
Heesen Bros. & Co., Tecumseh, Mich.

The Stock Interest.

DISEASES OF HOGS.

By W. S. Hanna, read at State Farmers' Institute at Ottawa, Kas.

Diseases of hogs are said to be as numerous as the diseases of the human family, and as the hog is constructed internally the nearest like a human being, so that the symptoms and treatment of all diseases are quite similar, ever remembering that strength of constitution and coarseness of structure requires over three times as much medicine to accomplish desired results. We are not a doctor nor the son of a doctor, but the object of this paper will be an attempt to give breeders and farmers some practical information, based on observation, much reading and some practical experience.

First, we believe an ounce of prevention is worth ten pounds of cure. That our whole system of forced feeding is a hot-house of disease, a constant violation of nature's laws and the over-fed, forced condition of early development loaded down with fat, little or no attention being paid to development of either frame, muscle, or the digestive organs, is of itself an unnatural state conducive to disease, if not almost disease itself.

Ordinarily a hog may be sick and suffer for days, and the ordinary farmer seems to never know that his hogs are sick till they begin to die. We believe in the skill of some veterinary surgeons, but in a large majority of them we have little faith in their knowledge of swine diseases, unless they have had special practice and more than ordinary opportunities.

We believe every stock-raiser should have or should acquire a knowledge of the physiological and anatomical structure of the human form and apply it in the study of the internal structure and functions of the organs of his domestic animals. How can a farmer understand how to handle and care for a machine unless he studies and understands its different parts? If he knows nothing of the mechanical powers or their application, or is "as ignorant as a horse," he spoils, injures and breaks a hundred times as much machinery as a trained mechanic would, yet what shall we say of one who is to handle the most complex and beautiful mechanism of the human or animal machine that divine wisdom could construct?

So my hearers will readily perceive we have no Solomons and we are just entering into an unexplored region, though we think we are not wholly at sea and the last five years we seem to have gained more definite knowledge than in the previous fifty years.

To write what is definitely known would make a book, but where shall we commence? The proper place is before the pig is born. The pig absorbs its living before and after birth from the mother, and observation and experience prove that any unhealthy condition of the dam is sure to affect the pig—the mother growing better, the pig worse.

In order to have healthy pigs you must have healthy parents, or the chances are greatly against you. One of the most difficult of all questions is, "What proportion of the pigs will die when one or both the parents are affected by cholera?" It depends very much at what period of the development of the foetus, the severity of the attack, whether the dam will free her system from disease before birth so as to inject a healthy growth and development of her young. Two practical breeders have given a general result—over one-third of the pigs live. They may possibly be born with the disease and start cholera afresh. Pigs generally die first, the fully developed sire last.

But for a definite something. Out of twenty-four common hog diseases, we skip a chapter on farrowing. If sow is improperly fed or overfed, generally occur two general results—scours or thumps. (1) Try and ascertain the cause and try and counteract it by opposite treatment. (2) Running in the morning dew, especially on fast-growing clover, sudden change in feed; if from eating too much green feed or soft slop, change sow to a dry pen and

put on dry or more binding feed, check up in quantity; give the stomach a rest.

Often feeding two tablespoonfuls of sulphur and one of charcoal daily to the dam will correct the white scours; scalded milk is good. Thumps: Sows put on half rations for ten days at farrowing time never have thumpy pigs. Forced, over-fed sows, and very fat, plump pigs are often troubled with indigestion or thumps. Remove the cause. Did you ever know of the old sow that in an off corn year brought her nine pigs, farrowed out in the woods, after a week's absence, all safely trotting home, to have thumpy pigs? Their digestive organs have not revolted, are not on a strike, and the blood is not rushing to the heart, thumping the very life out, like the hot-house, parlor-fed pig. Cut down the feed, if need be, to bran and water; feed charcoal or some good condition powder; even soft soap helps cure; a drop or two of turpentine in milk is good; often three drops of digitalis given in milk is necessary to stop severe action of the heart.

Coughs—People cough, so do pigs, from like causes, though some people would worry more about the pigs than the girls coughing in the parlor. Pigs often have the whooping cough outdoors while the children give the same kind of a whoop in the house. From personal observation we believe most coughs are caused from presence of worms, especially in efforts to raise them from irritation of the stomach and cough them out of the throat or swallow them, sometimes passing down to the lungs. Second, from bacteria or germs of a cough disease, and in both cases they spread more or less through the herd. Hence it is proper to isolate the coughers. One teaspoonful of sulphurous acid or ten drops of carbolic acid in a pint of milk, twice a day, for a week, sometimes also giving turpentine in swill, will generally reach the difficulties. Wood ashes and salt are as strong medicine as are generally given a hog, but farmers are so used to them that they don't seem to know they are giving medicine. Without attending to such hogs you simply throw away dollars worth of feed and growth and are unwise, to say the least. If, as Prof. Wilson says, hogs are affected by eleven kinds of worms, and some require different remedies, it may take a half box of concentrated lye to a barrel of swill, to be followed next feed by a pint to a quart of crude coal oil to a barrel of swill.

We are convinced that one-half of the so-called cholera is caused by bacteria and worms. If anything is the matter with the skin, feed sulphur; also add a little coal oil to your feed and you never need to touch a hog to get rid of lice. In short, remember these rules: Doctor somewhat as you would a human being, giving three times as much medicine for a dose. If the dung of your hog is soft and light colored, water clear, skin clean, and hair glossy, let him alone. If any of these things are wrong, correct them.

Hogs have the lung fever, typhoid fever, splenic fever, spotted fever, diphtheria, anthrax, and die from them, and they are more or less contagious and every ignoramus hollows cholera.

Hogs, like persons, are sick a long time before they are off their feed or go to bed. Separate such, change feed, generally feed less or no corn. Get the rest of the herd in the best possible condition, if you have to use the United States hog cholera remedy to do it.

If cholera is within a mile of you, kill every rambling crow or dog that comes on your premises and allow none of your cholera-infected neighbors to come near. Neither borrow or lend to them. Beware of allowing your hogs to run next to the road where cholera hogs may be driven or of allowing your hogs to frequent places where a wash or water may come from cholera-infected regions.

In my opinion, there is no hog cholera ever occurs in a herd unless they get the disease germ that produces it, and an ounce of prevention is worth a thousand pounds of cure. Fire will kill it. If you can get the disease germ into either hot slacking lime, carbolic acid or sulphurous acid, whether on

the ground, trough, mouth or stomach of a hog, you thus kill it; but the moment it enters the circulation and inhabits the blood you may calculate you have sinned away your day of grace and must fight the disease. Keep away from the cholera-infected region, neither buy feed from there nor borrow, lend or visit for a year, to be perfectly safe. Ever keep in mind—prevent the invisible disease germ from being brought where your hogs can get it and then you are safe. If all these affected hogs could be killed and burned up, their places disinfected and paid for out of a county fund, many counties would be many thousands of dollars better off. A hundred dollars wisely expended would often save \$10,000.

Remember, animals kept in the best of health, like the nurse and doctor, are not so liable to take the disease as when the system is in a favorable condition to receive it, and there is no more mystery about one than the other, hence contiguous herds sometimes escape.

After disease has run its course, burn up all trash, especially all forms of hog sheds, straw, troughs, cremate all dead hogs. A hot fire will thus kill the germs and the charcoal is an excellent remedy for diseased hogs.

Sometimes floors in costly buildings may be covered with new lime and the heat from slacking will kill the germ. Also a thorough soaking with an extra strong solution of corrosive sublimate or crude carbolic acid, three times, a month apart, are good disinfectants or germ-killers.

It would have been far better to have confined your hogs, separating sick from well, in close, tight pens, where everything could have been destroyed, and the refuse from a gas factory makes the best flooring, as it is a germ-killer. Most disease germs are gotten rid of within six months to a year, but you may neglect and harbor them so they will live for years. Again, a cold, freezing rain on a high, exposed lot, where the disease may be washed off, may become free from disease in a few weeks.

Nothing is more mysterious about this disease than the vast amount of ignorance which prevails about it. But time and space do not allow further discussion, which would easily fill a book.

Experience With Sheep.

EDITOR KANSAS FARMER:—I am interested in the sheep questions your correspondent asks, and would like every other Kansas farmer should be, as there are but few farms in this part of the State but what could keep from twenty to one hundred head of sheep on the waste of the farm. I have a small flock of fifty-five breeding ewes. I started with eleven head of Merino grades. I bought my start during the spring of 1891. I have butchered and sold all old ewes and wether lambs. Do not know how much my loss from new legislation is. I think from 5 to 10 cents a pound on wool. In the spring of 1892 my wool sold for 23 cents in St. Louis; in spring of 1893, 18 cents; in spring of 1894, 14 cents a pound in the same market. My wool of 1894 was of a better grade than the other two years. My average increase from mature ewes is a good deal larger than from young ewes.

The kind of sheep for beginners to buy is the kind they like best. My opinion of the future is there will be more and better flocks of sheep. I do not care to buy or sell any sheep at present. My sheep run in the pasture with my cows and horses. My sheep fence cost from 20 to 25 cents per rod. I would take a few sheep on shares if I could get them on reasonable terms. I do not know why western Kansas is not as well adapted to sheep as eastern Kansas. I do not know why Kansas should not raise more sheep. I have used thoroughbred Shropshire rams altogether and consider them the sheep. There is not much demand for breeding ewes at present, but there is some inquiry for sheep to feed. My sheep have paid me the best for money invested of any stock. I do not object to my name being published. My sheep have racks filled with nice, bright

The Only One To Stand the Test.

Rev. William Copp, whose father was a physician for over fifty years, in New Jersey, and who himself spent many years preparing for the practice of medicine, but subsequently entered the ministry of the M. E. Church, writes: "I am glad to testify that I have had analyzed all the sarsaparilla preparations known in the trade, but



AYER'S

is the only one of them that I could recommend as a blood-purifier. I have

given away hundreds of bottles of it, as I consider it the safest as well as the best to be had."—WM. COPP, Pastor M. E. Church, Jackson, Minn.

AYER'S

THE ONLY WORLD'S FAIR
Sarsaparilla

When in doubt, ask for Ayer's Pills

prairie hay all the time. I feed them straw, fodder and Kaffir corn, one or the other, once a day. I also feed them wheat, oats and corn, equal parts mixed, one pint each night and morning for breeding ewes. I find that wheat is my best sheep feed. I sold my wether lambs last fall at nine and ten months old. They average in weight 105 pounds each. I sold one yearling ram that weighed 207 pounds. My lambs brought me \$3.50 per hundred pounds. I have raised all of the above sheep from the eleven head, excepting two ewes and three rams that I have bought during this time, and I have sold quite a good many old ewes and wether lambs that I have not kept any account of.

ELWOOD RUSH.

Shaw, Neosho Co., Kas.

If the hair is falling out and turning gray, the glands of the skin need stimulating and color food, and the best remedy and stimulant is Hall's Hair Renewer.

No Rest—Great Pain.

January 3, 1895.

GENTLEMEN:—Some years ago I was troubled severely with my kidneys. I suffered untold agonies with pain in my back, from which I could get no rest and no cure, although I spent hundreds of dollars with different doctors. Reading in your almanac about Dr. J. H. McLean's Liver and Kidney Balm, I concluded to try it. I began to improve with the first bottle, and after taking three bottles felt like a new woman.

Mrs. WM. CLARK,
Nineteenth and Pine Sts., St. Louis, Mo.

An Actual Photograph of Clark's Outaway Revolving Plow.

Clark's Outaway harrows have become so well and favorably known that any new invention from the manufacturers of these harrows is sure to command immediate recognition. Our readers, therefore, will be interested in the illustration (page 195) showing the actual working of a remarkable invention. This is not drawn from imagination, but is an actual photograph. The following letter is self-explanatory and will be read with interest:

NOURSE, TEX., December 22, 1894.

The Outaway Harrow Co., Higganum Conn.:
GENTLEMEN:—Enclosed please find photograph of Clark's thirty-two inch Outaway Revolving Plow, which I purchased from you, at work in a field of wild sunflowers. You will be surprised to see the work done by it, as the sunflowers range in height from four to fifteen feet. The land-side side of your plow—which carries the sand bag, for weighting down—thoroughly breaks them down and cuts the way for the work of the plow side. As you will see by the earth on the right side, the trash is very thoroughly turned under and a bed prepared for seeding. You will see that the weeds or sunflowers in all cases are much higher than our team. This gives you a true condition of just what your plow is doing in actual use in our fields here. There is nothing that can equal it, as one operation does the whole work. I have sent you this photograph, thinking you might be interested in seeing what we can do with it in this country.

Yours truly, C. E. SWENSEN,

Agricultural Matters.

THE PHILOSOPHY OF FARMING.

By Hon. T. W. Harrison, of Topeka, read before the Farmers' Institute at Oak Grange hall, Shawnee county, March 7, 1895.

I was born and raised on a farm, and even now, as the relentless finger of time traces with stencillings of gray his unceasing march down the last half of a century of active life, the sweetest recollections of more than fifty years cluster around the associations of that boyhood home. The herds of cattle, sheep and swine, the fields of grain, the little hill and big hill, the pasture, the orchard, the days of toil and the nights of refreshing sleep wooed by the soothing music of the pattering rainfall on the shingle roof, all have left vivid and lasting impressions which no lapse of time can destroy and no burden of care can efface. The lessons and experiences of that twenty years of joint development of farm and boy, inculcated a love and implanted a charm for the vocation and established a condition of physical health and strength which must be life-long and of value beyond estimation. "And when, in the course of human events," I became impressed with the idea, as most young men do, and all ought to, that I should have a home of my own, I courted and married a farmer's girl, and the only thing I ever regretted about that is that circumstances over which I had no control would not permit me to marry her sooner than I did.

It is not a matter of sentiment, but of actual fact and truthful history, that the farms produce the strongest and smartest boys and the healthiest and handsomest girls; probably smartest and handsomest because they are strongest and healthiest. Washington, Lincoln and Grant, the three greatest men of modern times, were all farmers' boys and sons of farmers' daughters. The very lessons which nature intuitively teaches on the farm tend to the development of strong bodies and bright minds. The continued associations with the germination, growth, development and maturing of annual crops, unconsciously develops an independence of thought and strength of mind which can be attained in no other way, and this purest of scientific training from generation to generation culminates in the production of the most talented men and women in all the departments of human knowledge. All science and all art are but the application and imitation in a feeble way of the lessons which are taught by nature. Elegant paintings are but a reproduction in an inferior manner of views and scenes which nature spreads out before our vision, and the nearer like nature they are made the more elegant they are said to be, and we call it art. Science is but adapting to the knowledge of men the principles of nature which have existed ever since the world was made. Farmers' boys and girls are in constant contact and association with the plans and principles of nature, and it is not only perfectly natural, but inevitable, that from among them should come the leaders of men and women.

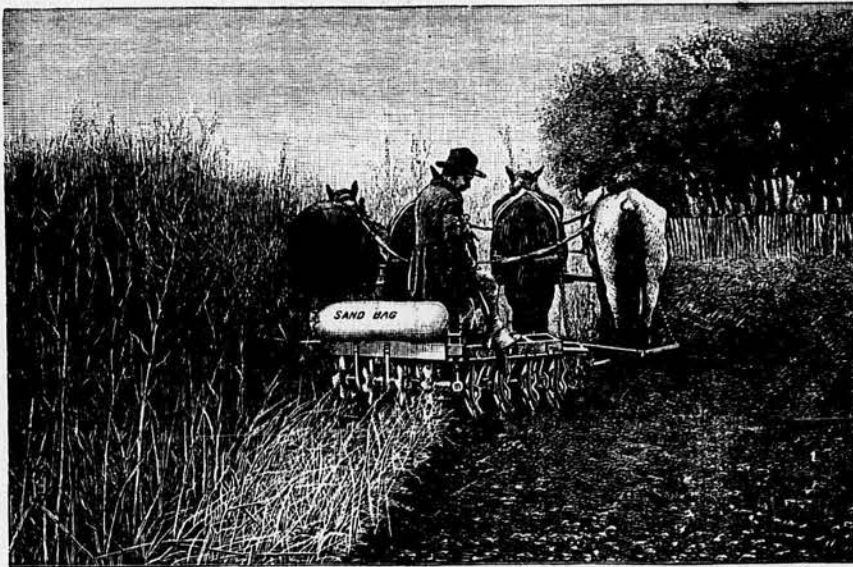
Our cities are kept up and increased in population and greatness by the additions which come to them from the farming classes. Cities would dwindle and weaken from their own degeneracy if it were not for their constant re-enforcement by the strength of muscle and brain which comes to them from the farms of the country. Industry, energy, mastery, are the teachings instilled by the farmer's life. The farmer's boy breaks a colt, subdues a kicking cow, masters a weedy field and grows a crop. This is repeated over and over again. His regular business is growth, development, production, accumulation. He inherits, imbibes and absorbs the spirit of mastery, and when he leaves the farm and goes into what are called the professional and business walks of life he becomes a leader and master among men. His very birth-right makes him such, and it is no wonder farmers' boys and girls become leaders in science, art, literature, politics and religion.

Farming is the oldest business on

earth. Our first parents were farmers, and perhaps might have been at it yet if they had not become too smart and had to be taken down a peg. Some people do not know when they are well off, anyway. And some of the farmers of the present day seem to have inherited a good deal of that disposition from the old Adam, and are anxious to quit the farm and try something else. While the farms generally furnish the boys who make the successful business and professional men, it will not do to suppose that all farmers can better their condition by leaving the farm and going into something else. One of the worst misfortunes that can befall the farmer is the spirit of unrest, a dissatisfaction with his lot, and a disposition to try something else. This was the ruin of Adam, and his children never have recovered from the disaster which followed his foolish experiment. "Stick to the farm and the farm will stick to you," may be homely, but it is wholesome advice. Farming is the most independent business on earth. No man comes so near being a monarch as the thrifty, industrious, contented farmer. No one else dare to invade his possessions nor dictate the use that shall be made of them. The farmer is his own boss, and this cannot be said of any other calling. Business and professional men are mere servants of their patrons. Their places of business are public resorts. We say to the grocer, "Put me up ten pounds of sugar," and he does it; or to the merchant, "Cut me off ten yards of that cloth," and he does it; or to the doctor, "Go up to my

in fact as well as in theory. There is something not fully comprehended about the association with stock which tends toward rugged health and length of days. Handling horses, milking cows, tending sheep and swine, exercise a silent but potential influence for health and strength. The girl in Germany, who milks the cows, hoes in the garden and stacks the new-mown hay, has a rosy cheek, a healthy glow, refreshing sleep and a vigorous appetite, which might and does create a feeling of jealousy in her feeble American sister who runs away at the sight of a calf, and is afraid to go into the field for fear of the kiss of the bumble bee. And what is more important, the out-door girl is booked for three score years and ten, nay, four score years of healthy, happy life, while her feeble in-door sister often, aye, too often, goes into decline at 30 and rarely passes 40—at least she will not admit it if she remains unmarried.

A few months ago I visited the immense stock yards and packing-houses at Kansas City, where millions of cattle, hogs, horses and sheep are handled annually. The prevalent odors did not harmonize with what my sense of smell had been accustomed to call agreeable and the immediate surroundings did not seem to accord with my idea of a sanitary condition that would be conducive to good health, and I asked the courteous superintendent who so kindly showed me around if the men working there were generally healthy. He said that in his fourteen years of experience there with all the multitude of men who had been under his charge he



CLARK'S CUTAWAY REVOLVING PLOW.

house and treat my child," and he goes; or to the lawyer, "Go down to the court house and defend that suit," and he goes; or to the landlord, "Give me a room on the second floor," and he does it. But if I say to the farmer, "Give me an acre of that land," he says, "Go to thunder," or words to that effect. If I say to him, "What will you take for that cow," he may reply by asking what I will give. I say, "Twenty dollars." He replies, "No you don't, you can't have that cow for less than thirty dollars." The thrifty farmer can live almost wholly within his own productions and live far better than any one else. What few things he may have to buy can easily be obtained with something he has to sell, and with proper care and forethought he can have something to sell every month in the year.

Farming is the most healthy business known to man. There is something which few realize and none fully understand about the close contact with the soil that is health-inspiring. It acts as a soothing, healing poultice for shattered nerves and broken health. The farmer who walks in the furrow behind his plow is not only turning up fresh soil for the growth of a new crop, but at the same time is equalizing and building up the magnetic energy of his body, by giving and taking with mother earth. I knew a college professor, many years ago, who, when exhausted and broken down with college work, would put on a pair of coarse boots and a working suit and go out into the country and follow a plow for a few days and then return to his mental work with restored health and renewed vitality. That man was a philosopher,

had never known one of them to be sick. That they were uniformly healthy, strong and hearty. I wondered at this and could only account for it from their association with and constant handling of healthy, robust and vigorous stock.

Farmers as a class are the happiest people on earth. And they ought to be. They are not obliged to dig their hair all out scratching for ideas nor to ruin their eye-sight trying to figure out how they made a bad guess on the future value of railroad stocks. Their social relations are not confined to a particular set, street or four corners. They do not stay away from church because their neckties are not just the right shade, nor because their wives do not have a new gown with every new moon. There is more true religion in good, honest farming than in any other business or profession, preaching not excepted. The founder of our religion said, "Feed my lambs." That is, feed those who need feeding. The farmer feeds the entire world. He makes it possible for other classes to exist. He contributes to the comfort and happiness of all mankind. And in doing it there ought to be, and is, a supreme joy; unconscious it may be and perhaps too often hidden beneath some selfish motive for gain, but which comes from obedience to that divine command which recognizes the universal brotherhood of man and the divine and infinite fatherhood of God.

The farmer is the only person who actually adds to the wealth of the world. He is the only person who actually produces wealth. He plants a seed. It grows. He cares for it. It produces from ten to ten hundred-

It Pays

to use Vacuum Leather Oil on harness and shoes. Get a can at a harness- or shoe-store, 25c a half-pint to \$1.25 a gallon; book "How to Take Care of Leather," and swob, both free; use enough to find out; if you don't like it, take the can back and get the whole of your money.

Sold only in cans, to make sure of fair dealing everywhere—handy cans. Best oil for farm machinery also. If you can't find it, write to

VACUUM OIL COMPANY, Rochester, N. Y.

fold. He has actually added that increase to the wealth of the world. Minerals, which represent wealth, are not produced. They have existed since the world was made. But the farmer produces wealth. All other accumulations of wealth are simply speculations upon what the farmer produces or what already exists.

There is more science and philosophy in farming than in any other business or profession on earth. The farmer must be a scientist and a philosopher. He may not know it, but he is, just the same. He learns it from that best and greatest book of all, the book of experience. He could not succeed without it. He plants the seed for a crop. He knows the kind of soil it requires, how soon it will germinate or sprout, when it will blossom or set the new crop, and when it will mature. He knows much more than all this. He knows that seed will reproduce its own kind, how much he should plant to produce the best results and what the increase will be. He knows more about the science of all this than the mathematician or astronomer. The farmer must be a philosopher or he never would plant a seed. He philosophizes that the seed will grow, that the season will be favorable, that he will get a fair, average or large crop, and then he leaves the realms of science and philosophy and speculates as to what the price will be. The nearer he gets down to nature and nature's ways, the greater scientist and philosopher he becomes. And what he does know he is much more certain of than the geologist or astronomer can be. He knows, and knows it for a certainty, that kind will produce its kind, and that men do not gather grapes of thorns nor figs of thistles. The astronomer pretends to tell us how far it is to the sun. But it is only his guess. He doesn't know it. He never walked it nor measured it with a tape-line or surveyor's chain. The mathematician will tell us how much the earth weighs, but what did he stand on when he weighed it, and what did he put in the other end of the scales to balance it? The farmer deals with the actual reproduction of life. That is his business. The professional scientist pretends to tell us what life is and where it comes from. He don't know anything about it. What makes the world go around? What makes the sunshine? What makes one flower red, another white, another blue? What makes my finger move? No man who lives or ever has lived or ever will live can tell you. What makes the heart beat? What makes it beat faster for fear or love or joy? What makes it cease beating when life goes out? Oh, science, science, we must bid you adieu, and we can only look up and cling to that simple faith which reaches out and beyond the realm of man. God and God only and alone can answer such questions.

The farmer, of all men, must have faith, hope and charity. It is useless for him to plant without faith; faith that the seed will grow; faith that the tender plant shall not fail, and faith for the full corn in the ear. It is useless for him to plow without hope; hope that the rains may fall; hope that the storms may not destroy, and hope for the harvest in due season. It is useless for him to harvest without charity; charity, the greatest of these three; charity which makes the thankful heart; charity which lightens some burden; charity which overlooks some wrong; charity which finds its sweet reward, not only in this life, but also in the life to come; charity which recognizes the brotherhood of man and the fatherhood of God; charity which extends beyond the grave, throughout the endless ages of eternity.

Irrigation.

We had expected to print, this week, an illustrated description of the application of water to the land, as done by Col. C. D. Perry, on his great ranch, near Englewood, Kas. At the last moment, the engravers have disappointed us, so that the matter, which is otherwise ready to print, will be held over until next week.

Fish Culture.

By I. L. Diesem, read before Finney County Farmers' Institute, January 29-31, 1905.

Four years ago I stocked my first reservoir with carp, which are by no means the best fish in the world, nor are they as bony as the sucker or the hickory shad. During the fall, winter and early spring they are palatable and are very desirable as a change of meat diet.

Carp are among the most productive of any of the finny tribe. A female weighing five pounds lays on an average about 300,000 eggs in one season. It is on this account that they are so productive.

Carp when sixteen months old weigh from one and a half to two pounds, and under favorable conditions will do better than that. The carp attains a length of from three to four feet, and at that size weighs from thirty to forty pounds. Under favorable conditions carp at the age of three years ought to weigh from four to six pounds.

This variety of fish (the carp) has become a very important fish on account of its habits. It readily adapts itself to pond culture, not only in our reservoirs, but they will do fairly well in dead water pools, wherein the game fish of any variety can not even live.

The carp is a vegetarian and will eat almost anything in the vegetable line as well as many of the cereals. Wheat or corn when sunk to the bottom of the reservoir in a box or bucket is eaten very readily. Shorts or cheap flour made into a dough is food they relish and eat readily.

It cost me about \$15 to stock my reservoir. Since that time I have sold more than twice that amount and my family has had all the fresh fish in the past two years they wanted, to say nothing about the pleasure of fishing.

When I had written this article thus far I wanted to read it to Mrs. Diesem. She frankly said: "O, pshaw; I don't want to hear it; I would rather go fishing."

When our reservoirs are planted with fish the harvest comes twice a year. When the birds are aroused from their winter quarters and begin their songs in the spring, and the barns and cellars are nearly empty and the finances have run low, then two or three-year-old carp become a source of revenue. And again in the fall, when the freshets of spring, the droughts of summer, the hot winds and the scorching rays of the sun have made their impression felt on the resources of the farm, and the farmer is depressed with care and anxious thoughts as to the future, the fish then, unaffected by these extremities, will come to the rescue and balance accounts.

What is there that, with the same amount of labor and money expended, is so attractive as a reservoir stocked with fish? It adds to home attractions of the farm and makes it a more pleasant place for the sons and daughters and, for that matter, for the father and mother, also. A place for boating, bathing, skating and, above all, a place to fish. Where is the boy, man or woman who does not love to angle for the finny tribe?

A good pond of water under proper control adds to the beauty as well as the commercial value of any farm in many other ways than those already mentioned.

No article of food is more healthful to man than fish. With reservoirs as we have them in Finney county, stocked with fish, it is no trouble to have fish any day for any meal, and what we might at present call a luxury.

I put into my reservoir in the fall of 1893 some mud cat-fish that were from three to four inches long, and in one year they had grown to twelve and four-

teen inches in length and weighed over one pound. I also put in some sun-fish the same fall and they have made a growth in about the same proportion as the cat-fish.

Within the last month I have added to them some channel cat, black bass and rainbow trout. Mr. Wampler, the present State Fish Commissioner, who visited our city in December and saw our reservoirs and water, says we have as good or better facilities than any other locality in the State to propagate fish, and advises the growing of game fish, and for choice he names the black bass, crappie, channel cat, rainbow trout and rock bass as the five leading varieties for our waters and advises us to propagate and grow enough fish for our own home consumption at least.

The question might be asked: "What does it cost to grow them?" I will answer, nothing; for what any one family will use on their own table, any reservoir will grow without feeding. Any man who has a reservoir and has not got it stocked with fish is losing valuable time, and, aside from that, will have to wait longer than the man who has before he can supply his table with fish of his own production. Also, your water in your pond will grow your fish for family use for less money than you can grow any other meat, in proportion to the money invested. Enough fish for one family can be grown in any of your reservoirs without any artificial feeding. You will find nature alone has provided enough for that.

The Great Arkansas Valley.

The word irrigation is not a long word nor a hard one to understand, but it means "a whole lot;" that an arid country can be converted into one of the most lovely lands that man ever dwelt in. 'Tis but seven years since we settled in the Arkansas valley and built a home. We brought thirty apple trees and a few Russian apricots. We were laughed at and told that this valley was only fit for cowboys and coyotes; but we had made up our mind to experiment, at least. First year we planted sweet potatoes that yielded 200 bushels to the acre, sold for \$1 per bushel; Irish potatoes, 150 bushels to the acre, sold for \$30 per ton. Planted ten acres of watermelons, had ten cars, sold for \$800. Our faith said go on, and we bought grape vines to plant two acres, apple trees to plant six acres; took good care of all. Each year added apple, plum and pear, until now we have twenty acres and are beginning to reap the fruits of our toil. The tone of the people has changed; the cowboy is scarce; the coyote is hunting his den elsewhere. Visitors, with uplifted hands and wide-open eyes, exclaim: "Did you ever see the like!" Apple and plum trees bending under their tremendous load, with props under many of the limbs. We had plum trees five years old that bore 300 pounds, the lowest price we sold at was 3 cents per pound, \$9 per tree and over. Winesap apple, Missouri Pippin, planted eighteen months ago, bore forty nice apples a tree; plum trees the same age, bore a large wooden pail full; and grapes until you are tired of gathering them. Men who want fruit don't have to live long here until they can have it. We are more than 2,000 feet below Denver, have long seasons, no better climate in "Uncle Sam's" domain, and we doubt if in any other. We have too much land that has plenty of water; we need more thrifty settlers. Land is very reasonable; will illustrate with one piece: A young man rented a small piece, cultivated it this year in canteloupe; at the end of the season he asked the owner what he would take for the land; his reply was: "The price of one crop." The would-be purchaser said it was too high. Irrigation has done it all. Only one drawback to our valley: Since Adam and Eve stole the apple out of the Lord's orchard we have to work. Later on will tell you of our alfalfa.—J. C. Kain, Otero Co., Colo., in Colorado Farmer.

"The Farmer's Ready Reference, or Hand-Book of Diseases of Horses and Cattle." Descriptive circular free. Address S. C. Orr, V. S., Manhattan, Kas.

Ask your neighbor to subscribe for the KANSAS FARMER.

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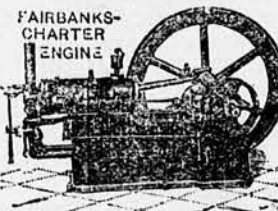
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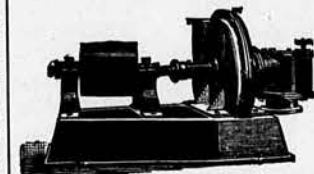


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Publishers' Paragraphs.

The Blue Valley Foundry Co., in sending order for advertisement, writes: "We like to advertise with people who do us good, and we have found by past experience that the KANSAS FARMER gave us value received."

One of the most reliable places for purchasing pure seeds in Chicago is Vaughan's Seed Store, at 146 West Washington street. Notice the advertisement of this establishment—"Onion Sets"—and send to them for free samples.

Oliver Foster, a practical bee-keeper, of Las Animas, Col., is putting his alfalfa honey on the market through the advertising columns of the KANSAS FARMER. His honey is excellent and is put up in convenient form for shipment.

Volume 39, "American Short-horn Herd Book," is now ready for delivery. Price \$3. Postage or express 26 cents (prepaid). For the latter amount it will be sent to members, those owning one or more shares of stock. Please order at once.

In another column, the New Comet, of Shenandoah, Iowa, asks for a host of lady and gentlemen canvassers to introduce an article of merit. We have examined it, and from the testimonials they give as to its usefulness it must be very meritorious.

Prince Bismarck has for years been accompanied and guarded by two large dogs of the Great Dane breed. Dr. W. H. Richards, V. S., of Emporia, Kas., makes a specialty of breeding Great Danes, as well as greyhounds and terriers. Write him for catalogue.

FARM RECORD.—Our "Farm Records" have been such a splendid seller because of their practical value that our supply is now quite limited. We have a number of the best binding only, which the KANSAS FARMER will deliver to any address for only one dollar.

The Kansas Weekly Capital publishes more Kansas news than any other weekly paper. A free sample copy will be sent on application to THE TOPEKA CAPITAL CO., Topeka, Kas. Or send \$1.50 to this office for KANSAS FARMER one year and also Capital twice a week.

Speaking of sewing machines, there is nothing better made than the "Kansas Farmer" machine, which is not only modern and substantial but has all the latest improvements, and the price is within the reach of every reader of this paper. Look up our great offer and remember that we guarantee satisfaction.

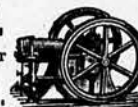
THE UNTERRIFIED.—The Topeka Advocate still champions the cause of the 118,000 unterrified Populists of Kansas and their brothers in other States, yet it talks politics in such an unprejudiced way that it is read by many Republicans, Democrats and Prohibitionists. You can get it for \$1 a year, 25 cents for three months. The Advocate and KANSAS FARMER a year for \$1.50.

Interesting circulars sent to farmers. Send name to Bureau of Immigration, Spokane, Wash.

Agents wanted for Gearhart's Family Kutter. For particulars address J. E. Gearhart, Clearfield, Pa.

ONE CENT PER HOUR IS CHEAP.

That is what "WEBER" GASOLINE ENGINES COST to run per horse-power. Simple, Safe, Reliable, Economical. GET POSTED. Weber Gas and Gasoline Engine Co., 459 Southwest Boulevard, Kansas City, Mo.



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For All Kinds of Grinding.

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All kinds mill machinery. Flour mills built, roller or buhr system.

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Horse high, bull strong, pig and chicken tight.

Make it yourself for 13 to 20 cents a rod.

50 styles. A man and boy can make 40 to 60 rods a day. Catalog free.

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NOT A WORLD'S FAIR MEDAL.

DETROIT, MICH., Feb. 19th, 1895.

To Whom It May Concern:—Mr. W. D. Withington of this city, has recently constructed about four (4) miles of the "Page Woven Wire Fence" around the park recently given to the City of Detroit, located on the Log Cabin Stock Farm. I consider the fence one of the best, in every respect, on earth.

Very truly, J. W. SIMCOCK.

I concur in the above. T. W. PALMER.

Fence is perfectly satisfactory.

C. K. LATHAM.

Com. of Parks and Boulevards, of Detroit.

Senator Palmer was President of the World's Fair Com. and Mr. Simcock is his Manager.

PAGE WOVEN WIRE FENCE CO., Adrian, Mich.

New Books.

That very progressive and modern concern, the Arena Publishing Co., of Boston, has quite recently issued a new work on "Hypnotism; How it is Done; its Uses and Dangers," by James R. Cooke, M. D. Probably no theme that is now before the public is fraught with a more intense interest than that discussed in this new book.

Hypnotism is as old as the human race, and was practiced by the Lord and the serpent in the Garden of Eden. For surely the first recorded case of surgical anaesthesia was that where God cast Adam into a deep sleep and removed a rib, and shortly afterwards, the old serpent hypnotized Eve and made her believe that if she ate the forbidden fruit she would be as wise as God himself. Every new book ought to cast some new light on the subject of which it treats, and in this book Dr. Cooke fulfills that requirement of useful authorship. Following Thos. J. Hudson's book on "The Law of Psychic Phenomena," in 1893, this volume in 1894, brings the reader marvelously close to that mysterious verge where the known and the unknown meet and merge.

Instead of devoting his pages to the occult and romantic phases of the subject, Dr. Cooke has written plain, practical chapters on the beneficent phases of the science, and the word "science" is used deliberately, for since the publication of Mr. Hudson's book, we seem to be in possession of not only the working hypothesis but the scientific basis of this most mysterious force in nature. And this new book is just what would be expected to follow that erudite work. For, when once we have the basic principles of any science, the first and highest duty of authorship is to make the discovery as useful and beneficent to the race as possible. The patient, painstaking researches in past ages of such men as Mesmer, Reichenbach, Braid, Charcot, Bernheim, Luys, Deleuze, Kraft-Ebing, Heidenheim, Van Helmont, Carpenter and many others, led, step by step, along the dark corridor of the ages towards the light, and we seem now to stand in the light and to know where we stand. While the question comes home to us all: "What shall we do with this new-comer in science?" the answer goes up: "Hitch it to the car of progress; treat it as we do fire, lightning, steam, chemical equivalence; deprive it of blind mastery, and make it the magnificent servitor of man." And that is the main purport of this new book.

After a plain discussion of what hypnotism is and how it is produced, with a chapter on its dangers, the author shows how it may be made useful in medicine and surgery. He shows how useful it may be in the cure of nervous and functional disorders, how it can cure drunkenness and the tobacco and morphine habits, as well as some forms of insanity and many tendencies to crime. That which can so safely take the place of chloroform in surgery is a Godsend to the race, though we may not yet know how to apply it to all cases.

The book is right-minded and well written, and shows a vast amount of research, and the Arena Publishing Co. deserves the thanks and patronage of the lovers of science the whole world over for putting this new work before an interested throng of readers.

Upon our table is a most delightful book. On the outside cover is a towering palm tree, and across it we read, "The Pearl of India, by Maturin M. Ballou." This seems to be the fifteenth book of travel and observation of a most persistent and painstaking traveler, who tells us frankly that after traveling the world over, "It is safe to say no place presents more varied attractions to the observant traveler, more thoroughly and picturesquely exhibits equatorial life, or addresses itself more directly to the delicate appreciation of the artist, botanist, antiquarian, general scientist and sportsman than does Ceylon, the gem of the orient."

From time immemorial that most wonderful of all tropical islands, lying in the Indian ocean forty or fifty miles south of India and 6° north of the equator, has been visited and extolled by a large number of travelers. A thousand writers have, in books, essays, pamphlets, legends and songs chanted and sung and told the marvelous story of Ceylon. The companions of Alexander the Great brought glorious tidings to his capital, of the great cinnamon and spice land in the sun-lit seas of the south. Albyrouni, the Arabian geographer, essayed to give its location and characteristics. St. Ambrosius praised it. The wonderful stories in the "Arabian Nights" came from Ceylon. Ariosto and Pliny wrote of its "spicy breezes," so that Bishop Heber only repeated an old, old figure of speech when he wrote his famous hymn, in which occurs the oft-quoted lines:

What, though the spicy breezes
Blow soft o'er Ceylon's isle.

No other island on the planet is the subject of such a diversified literature. The Greeks, the Romans, the Persians, Arabians, the Chinese, Burmese, Portuguese,

Spanish, French, Dutch, Russian, German, British, American and nearly all other nationalities have the beauty and glory of Ceylon enshrined in their literature. And after it all, this magical isle is still fresh and tempting as ever. It seems to be the one spot of earth endowed with eternal youth and beauty. No wonder that poets and religionists sound its praises as the original Garden of Eden. No wonder the Buddhists worship around Adam's footprint on the rocky pinnacle of Adam's Peak, and fondly point the way to the outer world over Adam's Bridge. Therefore it is no wonder that Mr. Ballou, himself possessing the poetic temperament and the worshipful soul, after seeing all other lands, comes to us with a great song of glorification over this land of eternal summer, of endless diversity and unmatched beauty. The Seychells and Borneo perhaps possess equal arboreal and floral splendors, and yet, and yet, Ceylon still reigns as the queen of sensuality and splendor, the continuing paradise of the planet.

Many years of travel, of close observation and voluminous authorship added to the poetic soul, give peculiar fitness to Mr. Ballou for producing the delightful literary panorama he has given us of that garden where God and man once walked together in the cool of the evening. But, as books are human productions, none of them are perfect. So this delightful book is wanting in one very important particular. Its only illustration is on the cover, a lone towering palm, with its awful and majestic significance. In this age, when the graphic art has reached such wonderful development, when the camera actually photographs in colors and photo-engraving is so inexpensive, one feels sad to see such a charming book on such a charming subject bare of illustrations. Think of the ravishing scenes along that 300 miles of "palm-fringed shore," the grandeur of Mount Pedrotallagalla, of Adam's Peak, the herds of wild elephants, those marvelous people, the Cingalese, and the more marvelous Veddahs, the rushing rivers, great waterfalls, the primal forests, the cinnamon gardens, the ancient ruins, so old that even tradition has no account of their day and generation, the mighty bo-trees, older than Christianity, wooded retreats so dense that one must light a torch at noon to penetrate their primal solitudes, and all these and countless other sensuous delights that art might give us along with this splendid table of contents. But as no go-down can hold all the cinnamon, no vase all the nectar, no ocean all the floods, no forest all the timber and no garden all the flowers, so no book can hold all the charm and glory of authorship, and we forgive the author and publisher for this sore lack of completeness in "The Pearl of India," which is published by that superb publishing house, Houghton, Mifflin & Co., of Boston. HENRY W. ROBY.

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(Lackey's Corn should be included in above list—was left out by mistake.)

The Home Circle.

To Correspondents.

The matter for the HOME CIRCLE is selected Wednesday of the week before the paper is printed. Manuscript received after that almost invariably goes over to the next week, unless it is very short and very good. Correspondents will govern themselves accordingly.

BEULAH LAND.

We're getting on in years, Jane, we two who started out
So bravely on life's journey, when the world
was blithe and gay;
I can hardly tell, my darling, now the thing has
come about,
But I find myself beginning to live in yester-
day.

There's a bald spot on my head, Jane, and the
frost is sitting down
White as drifting snow of winter on the fringe
above my brow,
And your bonny locks are silver, that were once
a golden brown,
Yet you never were so queenly, Jane, so beauti-
ful as now.

But, "Hurry up, old lady!" the car conductors
say,
"Step lively, please, old gentleman!"—and
young folks offer seats,
And we discover in ourselves, when treated in
this way,
A cold and haughty anger or quick resentful
heats.

Then, we've learned to love a corner by the
chimney's blaze at night;
We are not always ready for the sleighing or
the ice
That used to call us often forth, our faces smil-
ing bright,
When mirth and frolic made for youth the
flavor and the spice.

And we've caught the trick of looking with a
half respectful awe
At the judges and the doctors whom we used
to know in kilts;
And we blush at the admission, but our young-
est's word is law—
She has but to nod her meaning, and our own
opinion wits.

Then the small grandchildren rule us; pray do
not deny it, Jane;
We would spoil them with indulgence if they
lived beneath our roof.
When the question is of saying no, the little
ones to train.
We, once so sternly resolute, just weakly stand
aloof.

Yes, we're getting on in years, Jane, but I like
it very well.
This broad and pleasant upland to which our
steps have climbed;
'Tis a restful Beulah country where delightful
people dwell,
And the hour of our arrival has been very
sweetly timed.

Here we taste the fruits we planted in the morn-
ing's bustling haste;
Here we sit awhile at leisure, and make friends
with young and old;
Here we read and talk and ponder, by no fiend
of worry chased,
And behind us lies the dusty road, before us
evening's gold.
—Harper's Bazar.

PRETTY MICROBE EXPERT.

Miss Anna Williams, of New York, and
Her Peculiar Work.

Such a shy, diffident little woman,
only five feet high, with hands just big
enough to lift the big bottles off the
shelves, and bright eyes which look as
if they could see the friskiest of mi-
crobes even without the aid of a mag-
nifying glass! This is Miss Anna Wil-
liams, the young woman who assists
Dr. Briggs, of the bacteriological labora-
tory of the board of health, to find
out whether the germs of tuberculosis,
cholera or diphtheria are most ram-
pageous within the city limits.



MISS ANNA WILLIAMS IN THE LABORA-
TORY.

She was very busy when a New York
Advertiser man went to see what a
feminine bacteriologist accomplished.
She was whisking about the sunny
room, with its broad windows and
rows of long tables. First she would
fill a great crystal bowl with water
and wrinkle up her brow and draw her
mouth down at the corners to discover
if it was pure and unadulterated; then
she would fly to the incubator, big
shining metal cases, where in hot water
and over steampipes the suspected mi-
crobes were being roasted into activity.
A bottle of microbes of diphtheria, con-
sumption—your choice, in fact—neatly

sealed and labeled, is undone, and a
well-nigh unseeable quantity is poured
on a bit of glass, already prepared with
oils—for the names of which the reader
is referred to the laboratory—then the
miserable microbe is seen through the
magnifying glass, and anti-toxine is
promptly forwarded to the doctor who
sent the little bottle as a contribution.

Miss Williams deserted her occupa-
tion for a minute, when the curious
caller asked her how she liked her
work.

"It is very absorbing," said the little
bacilli expert.

"Do you like it better than other
branches?"

"Well, I don't know," said Miss Wil-
liams guardedly. "Of course it is only
one branch of the study of medicine."

"Were you chosen because you were
a woman?"

"No, indeed. It was a competitive
examination. There were five or six, I
believe. I was not chosen. I don't
think people ought to look upon women
in the profession as they do. There
should be nothing more remarkable in
my being here than if I were a man. I
am an expert bacteriologist. I passed
my medical examinations and received
my degree of M. D. at the woman's
medical college, in Eighteenth street,
three years ago."

"Do you intend to make bacteriology
a specialty or will you be a general
practitioner later on?"

"I can say nothing about my practice
—that is not the public's business. The
work here is not a private one, but
my practice is different," and the diffi-
dent little doctor went back to her polly-
wogs.

Such a nervous, shy, slender little
bacilli expert! Why, how she can face
the germ of diphtheria, boldly wipe out
of existence the essence of phthisis, in-
terview cholera microbes and take mi-
nute examinations of yellow-fever germs
is more than the caller of the other day
can imagine! But bacilli don't ask ques-
tions and microbes of tuberculosis don't
care whether it is a woman or a man
who views them through the micro-
scope.

Miss Williams is twenty-five years of
age, a bundle of nerves, big sleeves and
shyness. She is appointed for a year.
The assistants in the laboratory are
paid from \$1,200 to \$1,800 per annum.
She receives \$1,200. And she has a fa-
miliar acquaintance with every kind of
a microbe!

THE ENGLISH IVY.

Training the Plant So That It Always
Looks Fresh and Green.

Old plant growers do not need to be
told of the good qualities of the Eng-
lish ivy for a successful indoor climber;
but those who are just essaying house
plants may be pleased to learn that
with this plant they can have a climber
to train up and along the wall, and
over pictures, if desired, and that it
always looks fresh and green. Its
leaves are thick and of a leathery
texture, and are capable of withstand-
ing the effects of considerable changes
in temperature, of dry air, dust, and all
the other disturbing agencies to plant
life which are present in living rooms.
Planted in ordinary potting soil in a
medium-sized pot it is ready to com-
mence a growth which will continue
for years, if only it is supplied with
water and kept free from insects. It
should be trained in such a manner
that it can be taken down and restored
again to its position, and this can be
done by the use of a good strong cord
or a wire. It is more or less subject to
green fly, as are nearly all other plants,
and it is liable to harbor scale insects.
If the young plant has no scale insects
on it, and there are none on other
plants in the house, it may remain ex-
empt from them indefinitely. It is better,
therefore, to guard this point in start-
ing a plant. Green fly, of course, is
easily overcome by the well-known
usual methods. Sulpho-tobacco soap
perhaps is the best for the purpose in
connection with this and other house
plants.—Vick's Magazine.

Dusters are now seen in flaunting
colors and they have also gone up in
price. They have long sterling silver
handles and feathers in all the new and
aesthetic shades. Dusters of blue
feathers as soft as down rival those of
cerise in popularity. Mother-o'-pearl
handles are also the vogue. These
dusters are supposed to be used by
milady herself and not by her maid.

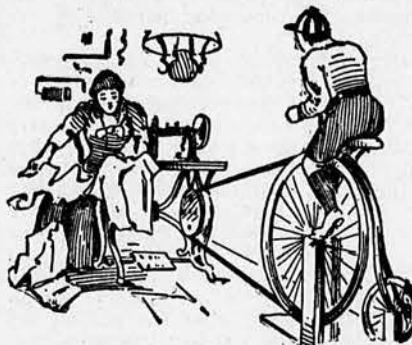
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A new contrivance for making a hus-
band and his wheel both useful and
agreeable is suggested in the Album



Industriel. Let the bicycle be securely
fastened to the ceiling, and raised suffi-
ciently to allow the wheels to turn in
the air. Then connect the wheel worked
by the pedals with the wheel of your
wife's sewing machine by means of a
strap, and when she says "Go!" start off
at a breakneck pace and ring the bell
furiously, until she shouts "Whoa!" In
this way a husband can make himself
of the greatest use to his wife, and at
the same time keep his muscles in
splendid condition.

Deafness Cannot be Cured

by local applications, as they cannot reach the
diseased portion of the ear. There is only one
way to cure deafness, and that is by constitu-
tional remedies. Deafness is caused by an in-
flamed condition of the mucous lining of the
eustachian tube. When this tube gets inflamed
you have a rumbling sound or imperfect hear-
ing, and when it is entirely closed deafness is
the result, and unless the inflammation can be
taken out and this tube restored to its normal
condition, hearing will be destroyed forever;
nine cases out of ten are caused by catarrh,
which is nothing but an inflamed condition of
the mucous surfaces.

We will give One Hundred Dollars for any
case of deafness (caused by catarrh) that can-
not be cured by Hall's Catarrh Cure. Send for
circulars, free.
F. J. CHENEY & CO., Toledo, O.
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the famous Philadelphia seedsmen.
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"How to Grow Melons for Market." Com- piled from Prize Essays.....	30
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When Selecting a Veil.

The salesgirl at the veil counter has
some good ideas. Buy a wide enough
veil, she urges, always double width,
unless it is over a close bonnet; buy a
good quality—the flimsy rags are the
most expensive in the end, and never
look well at any time of their service;
select one of fine net, with a far-apart
small dot; the cross-barred meshes
make lines on the face that are exactly
like wrinkles, and the sprigged and be-
figured ones are equally unbecoming;
don't use an edged veil, it only makes
a thick look about the throat as all
veils now are gathered under the chin,
not left hanging free, and above all,
don't wear a veil after it is torn; a slit
across one eye or on the nose, or show-
ing a bit of hair, is intolerable, and
spoils an otherwise effective toilet, and
finally, always pin, never tie, a veil.

FOR BRONCHIAL AND ASTHMATIC COM-
PLAINTS, "Brown's Bronchial Troches" have
remarkable curative properties.

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April 2 the Missouri, Kansas & Texas
railway will sell tickets to all points in
Texas at greatly reduced rates. For fur-
ther information apply to your local ticket
agent, or address G. A. McNutt, D. P. A.,
Kansas City, Mo., 1044 Union avenue, sta-
tion "A."

When the Kicks Come In

Is not the title of a new song, nor
does it refer to the backward action
of that much-maligned animal, the
mule.

It is a phrase used by the inhabi-
tants of Oklahoma to designate the
approaching opening of the fruitful
acres of the Kickapoo Indian reser-
vation.

If you wish to find out all about the
Kickapoo lands, as well as those be-
longing to the Wichita and Comanche
tribes—where cotton, wheat and
fruits will pay handsomely—ask G.
T. Nicholson, G. P. A., Santa Fe
Route, Topeka, Kas., for a
free
copy
of
Oklahoma
folder.

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The prices are uniform, stamped on sole.
From \$1 to \$3 saved over other makes.
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CURES PAINS OF MAN & BEAST

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claim, educate and instruct them in industrial pursuits, and to restore them, when possible, unto their
homes and parents. BENEVOLENT FRIENDS, this institution is non-sectarian and non-salaried—each
worker freely doing her part to "rescue the perishing, lift up the fallen and tell them of Jesus, the
mighty to save." God is blessing the work and good is being done. Now, we want you to "help just a
little" and enable us to do still greater good. The erring daughters must be reclaimed—they are more
often sinned against than sinning. The Savior said, "Neither do I condemn thee; go in peace and sin
no more." Address REV. LYDIA A. NEWBERRY, WICHITA, KAS.

The Young Folks.

FIRST SONG-SPARROW.

Sunshine set to music!
Hear the sparrow sing!
In his note is freshness
Of the new-born spring.
In his thrill delicious
Summer overflows—
Whiteness of the lily,
Sweetness of the rose.

Splendor of the sunrise,
Fragrance of the breeze,
Crystal of the brooklet,
Trickling under trees,
Over moss and pebbles—
Hark! you have them all
Promised and chanted
In the sparrow's call.

Pilgrim of the tree-tops,
Burdened with a song,
That he drops among us
As he flies along—
Promises and blessings
Scattering at our feet,
Till we sing together:
"Oh, but life is sweet!"

Listen! The song-sparrow!
Spirit? Or a bird?
Simple joy of singing
In his song is heard.
Somewhere far in glory
Love our life has kissed;
He resounds his rapture,
Heavenly optimist.

Resurrection singer!
Gladness of the year
In thine Easter carol,
Bringing heaven so near
That we scarcely know it
From the earth apart—
Sing immortal summer
To the wintry heart.

Waft us down faith's message
From behind the sky,
Till our aspirations
With thee sing and fly.
"God is good forever!
Nothing shall go wrong!"
Sunshine set to music—
'Tis the sparrow's song.

—Lucy Larcom, in *Youth's Companion*.

BRUIN'S BOXING MATCH.

Evidently the Bear Did Not Understand the Laws of Gravitation.

"A couple of us were splitting slabs in the Madawaska woods along in the fall, when, all of a sudden, the head of the maul flew off. The maul struck a tree, glanced, and took Bill on the side of the knee. It keeled him over so he couldn't do any more work that day, and I had to help him back to the camp. Before we left, I took a bit of cod-line out of my pocket, ran it through the eye of the maul, and strung the maul up to a branch so it would be easier to find when I wanted it.

"It was maybe a week before I went for that maul—a little more than a week, I should say; and then, it being of a Saturday afternoon, when there



A WHACK THAT MUST HAVE MADE HIM SEE STARS.

was no work to do, and Bill's leg being so much better that he could hobble alone, he and I thought we'd stroll over to where we'd been splitting, and bring the maul in to camp.

"When we got pretty near the place, and could see through the trees the maul hanging there where we had left it, Bill all of a sudden grabbed me sharp by the arm, and whispered: 'Keep still!'

"What is it?" said I, under my breath, looking all around.

"Use your eyes if you've got any," said he; and I stared through the branches in the direction he was looking. But there was a trunk in the way. As soon as I moved my head a bit, I saw what he was watching. There was a fine young bear sitting back on his haunches, and looking at the maul as if he didn't know what to make of it. Probably that bear had once been hurt in a trap, and so had grown suspicious. That there maul hanging from the limb of a tree was something different from anything he'd ever seen before.

Wondering what he was going to do, we crept a little nearer, without making any noise, and crouched down behind a spruce-bush.

"The bear was maybe a couple of yards from the maul, and watching it as if he thought it might get down any moment and come at him. A little gust of wind came through the trees and set the maul swinging a bit. He didn't like this, and backed off a few feet. The maul swung some more, and he drew off still further; and, as soon as it was quite still again, he sidled around it at a prudent distance and investigated it from the other side of the tree.

"The blame fool is scared of it," whispered Bill, scornfully; 'let's fling a rock at him!'

"No," said I, knowing bears pretty well; 'let's wait and see what he's going to do.'

"Well, when the maul had been pretty still for a minute or two, the bear appeared to make up his mind it didn't amount to much after all; he came right close up to it, as bold as you like, and pawed it kind of inquiringly. The maul swung away, and, being hung short, it came back quick and took the bear a smart rap on the nose.

"Bill and I both snickered, but the bear didn't hear us. He was mad right off, and, with a snort, he hit the maul a pretty good cuff; back it came like greased lightning, and took him again square on the snout with a whack that must have made him just see stars.

"Bill and I could hardly hold ourselves; but even if we had laughed right out I don't believe that bear would have noticed us, he was so mad. You know a bear's snout is mighty tender. Well, he grunted and snorted and rooted around in the leaves a bit, and then went back at the maul as if he was just going to knock it into the other side of to-morrow. He stood up to it, and he did hit it so hard that it seemed to disappear for half a second. It swung right over the limb, and, while he was looking for it, it came down on the top of his head. Great Scott! how he roared! And then, scratching his head with one paw, he went at it again with the other, and hit it just the same way he'd hit it before. I tell you, Bill and I pretty near burst as we saw that maul fly over the limb again and come down on the top of his head just like the first time. You'd have thought it would have cracked his skull; but a bear's head is as hard as they make them.

"This time the bear, after rubbing his head and his snout, and rooting some more in the leaves, sat back and seemed to consider. In a second or two he went up to the maul and tried to take hold of it with one paw; of course it slipped right away, and you'd have thought it was alive to see the sharp way it dodged back and caught him again on the nose. It wasn't much of a whack this time, but that nose was tender enough, then! And the bear got desperate. He grabbed for the maul with both paws; and that way, of course, he got it. With one pull he snapped the codline and the victory was his."—Charles G. D. Roberts, in *St. Nicholas*.

GALLANT BOY HERO.

How Edward, Prince of Wales, Won the sobriquet of Black Prince.

In the summer of the year 1346 Edward III. crossed the English channel with 30,000 men to invade France. At Crecy, not far from the Seine, he was met on the 26th of August by King Phillip with 130,000 men. The English army was formed in three lines and occupied a small eminence. After the soldiers had been confessed, Edward rode up and down the ranks, bidding each man to fight for St. George and the dragon, and "so sweetly and with so good countenance and merry cheer did he speak, that all took courage on hearing him."

While the French were coming on in great disorder, there was a total eclipse of the sun, accompanied by a terrible storm, after which the sun came out brightly, shining directly in the faces of the French, but on the backs of the English. The first charge was made by 15,000 Genoese bowmen, who came forward with a shout as though to scare the English. The latter, who had been ordered to lie flat on the ground, now arose, stepped forward a pace, and let go their arrows so fast that they seemed like blinding snow. The Genoese fled and the French king ordered

them to be cut down so that they would not hinder the rest of the army. In the meantime Edward, the prince of Wales, who was in command of one division, was surrounded by French knights, who, recognizing his rank, determined to capture or kill



AT ONE TIME HE WAS UNHORSED AND STRUCK TO THE GROUND.

him. A message was sent to the king telling him that the prince was hard pressed. "Is my son dead or hurt or on the earth felled?" he asked. "No, sire," was the reply. "Well, then," said the king, "return to them that sent you and tell them to send no more to me as long as my son is alive. I command them to suffer the child to win his spurs, for this day should be his." The young prince was indeed in great danger. At one time he was unhorsed and struck to the ground, but one of his loving Welsh knights, who carried the great dragon standard, threw it over him as he lay and stood upon it till the enemy was forced back.

Soon as the tide of battle had turned for the English, Edward came down from a high hill overlooking the field and took his son in his arms and kissed him. "You are my true son. Right loyally have you acquitted yourself and shown yourself to be a sovereign." Young Edward on this occasion wore a suit of black armor, which so contrasted with his crimson and gold surcoat and the brilliantly fair complexion of his round, boyish face that he was called from that time the Black Prince.—*St. Louis Republic*.

"Success is the reward of merit" not of assumption. Popular appreciation is what tells in the long run. For fifty years people have been using Ayer's Sarsaparilla, and to-day it is the blood-purifier most in favor with the public. Ayer's Sarsaparilla cures.

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KANSAS FARMER.

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All advertising intended for the current week should reach this office not later than Monday.
Every advertiser will receive a copy of the paper free during the publication of the advertisement.
Address all orders—

KANSAS FARMER CO., Topeka, Kas.

KANSAS FARMER and *Semi-Weekly World* (N. Y.), you can have for \$1.65 one year.

If you want one of the finest magazines published, send us \$2.25 for *KANSAS FARMER* and *Cosmopolitan*.

If you want *KANSAS FARMER* and *Semi-Weekly Capital*, send us \$1.50. Or, *KANSAS FARMER* and *Topeka Advocate*, send \$1.50.

The market quotations are at last giving some evidence that the bottom of the depression has been reached. There is a slight upward movement of prices generally.

We want our readers to secure for us thousands of new subscribers for the *KANSAS FARMER* and we will pay well for such work. If you will get up a list, write this office for liberal terms.

It is reported that it has been discovered at the New York Experiment Station that the butter can be recovered from whey by running it through a separator. The saving in New York State alone is estimated at \$1,000,000 per year.

The plan of putting city poor to raising potatoes and other vegetables on unused suburban grounds is being widely adopted by relief committees. The plan was used successfully at Detroit last season.

Every farmer in Kansas, and especially the breeders and stock-raisers, should have the greatest live stock journal in the world, the *Breeder's Gazette*, of Chicago, price \$2 a year. We make a special offer of it and the *KANSAS FARMER*, both papers one year, for only \$2. Subscribe now through this office.

Many of our subscribers desire a daily newspaper. In renewing your subscription it is well to note the fact that we can furnish you a year's subscription to *KANSAS FARMER* and daily *Kansas City Star* for \$4. Or, *KANSAS FARMER* and daily *Leavenworth Times* for \$3. The amount for both papers to be sent to this office.

The *KANSAS FARMER* has in stock about 2,000 Spray Calendars, giving concise directions as to time and manner of spraying every kind of fruit. They are very neat and are suitable to hang up for convenient reference. Any one sending a two-cent stamp to pay for mailing and postage will receive a Spray Calendar free.

A Belgian sugar journal estimates that the German beet sugar crop of 1895 will be produced at a cost which will admit of somewhat lower prices than now prevail. A Liverpool (England) writer suggests that in view of existing facts there is bound to be a still further drop in the price of sugar before the next crop.

THE SYNTHETIC FOOD OF THE FUTURE.

In his retiring address, as President of the American Chemical Society, delivered a few days ago, Dr. Harvey W. Wiley, Chief Chemist of the United States Department of Agriculture, gave a review of what has been accomplished in the line of progress toward the production of food materials by chemical means, and ended with a rather severe criticism of the claim that the laboratory of the chemist is to supplant the field and garden in supplying humanity's material wants. Dr. Wiley thinks that it seems strange that one of the most eminent living chemists should have unequivocally committed himself to the doctrine of future synthetic foods. He refers to the fact that in an address before the Society of Chemical and Mechanical Industries of Paris, on April 5, 1894, Berthelot publicly proclaimed his theory of the coming suppression of agriculture and the substitution of synthetic foods for its products. This theory he more fully elaborated in *McClure's Magazine* for September, 1894, a review of which article by the editor of the *Modern Miller* was published in the *KANSAS FARMER*.

The accomplishments of synthetic chemistry, on which the French savant bases his predictions, are reviewed in the address of Dr. Wiley, who goes even further than the provincialism of the Frenchman permitted him to go, and shows how the Chemist Fischer has, by synthetic process, produced sugar, a higher order of organic production than any mentioned by Berthelot. Allusion is also made to a process, recently patented, both in France and in this country, for the production of sugar by a method which chemical science hoots at as impracticable. The French chemist alludes to the synthesis of dye-stuffs, especially of alizarin and indigo, as examples of the destruction of a branch of agriculture by chemistry, and "he dwells, very properly," says Dr. Wiley, "on his own work in the synthesis of fats as an evidence of what may be accomplished in that line. The beefsteak of the future may not be identical with that of to-day, but it will be a tablet of any color or shape desired and will entirely satisfy the epicurean senses of the year 2,000. Chemistry has developed the whole science of cookery and flavoring and provided all the utensils of the kitchen. It remains now only for it to complete its work and furnish the food itself. Even at the present time, according to Berthelot, tea and coffee could be made artificially if this necessity should arise. The caffeine of the chemist has the following genealogy: Carbon and oxygen beget carbon dioxide. Carbon dioxide and chlorine beget carbonyl chloride. Carbonyl chloride and ammonia beget urea. From urea comes uric acid. From uric acid is derived xanthin. Xanthin yields theobromine. Theobromine yields theine or caffeine. From this pedigree it is concluded that tea plants and cocoa and coffee trees will soon follow the madder and the indigo plants into economic eclipse. * * *

It is conceded, by both sides of the discussion, that, thus far, only a beginning has been made, only an index found to what one side claims will eventuate in the synthetic production of all things needed for human sustenance. Berthelot says: "Over the whole field of organic chemistry the mystery of possibilities extends. Its combinations and inter-combinations are so limitless that we can only work on regularly to ends that it is impossible to foresee." According to the French chemist, "the fields which are now defaced by agriculture will be beautified by regaining their natural covering and the earth will be one vast park of pleasure and the chemist the great conservator of the human race."

But upon all this optimistic picture Dr. Wiley turns derision. He examines each of the pointers and is still unbelieving. He says: "The enormous cost of building up any kind of commercial synthetic organic body directly from the elements is such as to render it, in my opinion, utterly impossible of successful achievement."

Undoubtedly it is, at present at least, unadvisable for the farmer to burn his plow or to treasure up his harrow as a relic of the obsolete days of yore. It is not yet time to lay out the entire farm into pleasure grounds or to build the great laboratories for the artificial production of all things needful. It is, indeed, scarcely probable, that, with the advances being made, in both chemistry and agriculture, the world's demands for food will be satisfied as rapidly as they arise. It is fair to say that, as yet, the chemist has been a mere assistant to the farmer, and has furnished a little information which has enabled him to increase production and make it more certain. He has not, however, done anything of sufficient moment to relieve the statistician and the philanthropist of apprehension as to the capability of the earth to sustain in comfort, in the not distant future, its increasing millions of population. Doubtless the demands upon the farmer for the products of his fields will be much more urgent than now before they will be lessened by the achievements of the synthetic chemical manufacturer of food and clothing materials.

But it is rashness to say that the time predicted by Berthelot can never come. The man is not yet very old, who was taught, when a boy, that the economic production of light or the profitable transmission of power by electricity must always be an impossibility. The same man now is dazzled by the brilliant electric light, he rides in a car propelled by electricity and he may see vast machinery driven by energy transmitted by this agency. It is not wise to say of anything that it cannot be done.

PLEURO-PNEUMONIA FEARED.

There are ominous reports of an infectious cattle disease among some herds in Geary and Morris counties. The matter has been looked into by Dr. Mayo, veterinarian of the Agricultural college, who found a disease which he is satisfied is the dread pleuro-pneumonia. About a dozen deaths had resulted, about sixty head were sick, and something more than 200 head had been exposed. Dr. Mayo killed an ailing animal and made a *post-mortem* examination.

It was decided to report the matter at once to the Bureau of Animal Industry at Washington, so that energetic steps may be taken to stamp out the disease. It is probable that an officer will be sent to Kansas at once to investigate the matter and if the disease is found to be in fact pleuro-pneumonia, there will be no delay in killing every infected animal and adopting every known means to prevent the spread of the infection. All animals so killed will be paid for.

There has been no other outbreak of pleuro-pneumonia in the United States before, according to the Department of Agriculture, for three years or more.

If the Morris and Geary county outbreak is found to be pleuro-pneumonia there is little doubt that other States will quarantine against Kansas and that stockmen will be greatly embarrassed in marketing their cattle for some months to come.

All the infected herds are being quarantined by the State Sanitary Commission and no effort will be spared to protect neighboring herds.

Governor Morrill on Monday afternoon received a telegram from J. Sterling Morton, Secretary of the United States Department of Agriculture, relative to the pleuro-pneumonia. Dr. Devoe, the government expert who is called to make a scientific examination of the disease, called at the Governor's office on Monday and went to Manhattan to join Prof. Mayo and accompany him to the cattle. The telegram from Secretary Morton is as follows:

WASHINGTON, D. C., March 25, 1895.

Hon. E. N. Morrill, Topeka, Kas:

I regret to see in advance of investigation the statement in newspapers of yesterday, on authority of Prof. N. S. Mayo, that contagious pleuro-pneumonia exists in Kansas. This publication will do the cattle industry untold damage. It is now extremely important to determine the nature of the disease. I request therefore that cattle be held in strict quarantine and not killed until this department receives Dr. Devoe's report and until a thorough, scientific investigation can be made, if necessary.

J. STERLING MORTON, Secretary.

NOT PLEURO-PNEUMONIA.

To secure the latest reliable information as to the reported disease, the *KANSAS FARMER* sent its live stock expert, Mr. W. P. Brush, to the suspected herds at the time of the examination made by the government and State veterinarians, yesterday, March 26. Mr. Brush furnishes the following report of the investigation:

"Drs. Devoe and Mayo have decided, after holding *post-mortem* examinations in two herds, that the trouble was not contagious pleuro-pneumonia. Cattle were being roughed through on hot-wind-cured corn fodder, with scarcely an occasional nubbin. Dr. Devoe, of the Bureau of Animal Industry, said: 'Say to the public that from the history of the cattle and the *post-mortems* held on the farms I find no evidences of contagious pleuro-pneumonia.'"

The arrival at the port of New York early last week of a steamer from the Argentine Republic with a cargo of 120,000 bushels of flaxseed has brought to light some interesting facts. Quite a trade has been going on in seeds from that far-away country for some time past. About 50,000 bushels of the Argentine seed has already been sold. Another vessel with a cargo similar to the one last week, is due this week. The seed, although dirty, is reported to be of good quality, and the price \$1.28 per bushel. Crushers get a rebate on oil cake exported which makes the net price about \$1.20 paid for the South American article. American flaxseed is quoted nominally at \$1.50 to 1.55. Two years ago America exported large quantities of flaxseed and now she is importing.

Willett & Gray's circular of 21st ult. gives the following interesting data: "The retail price of granulated sugar in Great Britain is now 1½d. per pound, equal to 2.54 cents. The same sugar sells in Germany at 3d., equal to 6.09 cents; in Russia at 4½d., equal to 9.13 cents; in France and Belgium at 5½d., equal to 11.07 cents, and in Italy at 6d., equal to 12.18 cents, and in the United States at 3.74 cents per pound." These conditions result from the fact that the countries in which the high prices prevail tax consumers of sugar and pay export bounties out of the money so raised.

Nearly one thousand of our subscribers have renewed their subscriptions since February 20. We wish to say to them that we have endeavored to give each one the proper credit due, but for fear we may have overlooked any one, it will be well for each one to examine the label on this week's copy of *KANSAS FARMER* to see if we have extended the time properly. If any one finds proper credit not given, drop us a card at once and we will rectify any mistake.

Some of the old Kansas friends of Henry Wallace, formerly editor of the *Iowa Homestead*, will doubtless like an opportunity to continue to read the emanations from his able pen. He is now editing *Wallace's Farm and Dairy*. By special arrangement we are able to send *KANSAS FARMER* and *Farm and Dairy* for one year for \$1.25.

The *KANSAS FARMER* has received a neat bound volume entitled "Wisconsin Farmers' Institutes, a Handbook of Agriculture." It is a valuable publication and for reference and for study may be placed in any farmer's library for 25 cents in paper cover or 40 cents in cloth cover.

The great packing-house of Reid Bros., Kansas City, was destroyed by fire on Monday, March 25. The loss was estimated at over \$1,000,000.

Simple Method of Tanning.

EDITOR *KANSAS FARMER*:—Enclosed find a simple method for tanning hides: Smear flesh side with soft soap (made from wood ashes is best), and hold to a hot stove or other fire until hair comes off and soap is well soaked in. Wash out soap and work dry and it is ready for use.

A. H. MCCONNELL,
Cherryvale, Kas.

Finest location in the State. Wichita Commercial college, Y. M. C. A. building.

FIELD NOTES.

A few days since we paid a short visit to the Valley Falls poultry yards, owned by Mr. W. B. McCoy, at Valley Falls, Kas. He has thirteen varieties or breeds, which comprise about all of the more useful kinds, and in selecting his foundation stock has spared neither money nor pains in trying to obtain the best that the American poultry field affords. Consult his advertisement elsewhere in this issue for further information.

Our old friend and successful Missouri breeder of Berkshire swine and high-class prize-winning S. C. Brown Leghorns, also Mammoth Bronze turkeys, Mr. James Qurollo, writes us that he has sold his farm near Kearney and since purchased and moved to another two miles from Randolph, seven miles northeast of Kansas City, on the Hannibal & St. Joseph railroad, in Clay county. His postoffice is Moscow and his shipping point Randolph. He reports his fowls in splendid condition, while the Berkshires are coming on in good form. He has quite an extensive trade with Kansas people and hopes, by breeding and shipping the best, to retain all his old customers and merit many new ones.

Those of our readers who desire to purchase well-bred Poland-China brood sows and sows with litters, will find on consulting the new advertisement of Mr. W. H. Wren, of Marion, Marion county, Kansas, that he is offering a strong and highly-bred lot of individuals, just what every farmer should have that desires to make the most out of his farming operations during the next twelve months. Mr. Wren reports that seventy-eight living youngsters had arrived safely and that thirteen sows were due to farrow within three weeks. The youngsters will be to the credit of the two very excellent sires, Corwin White Face 9924 and Wren's Medium 12887. The well-up Poland-China breeder will at once recognize the merits of the breeding and ought, if he needs recruits, to avail himself of the opportunity and secure a draft from the Cherry Orchard herd.

Among others lately visited by the writer, was Mr. I. B. Brown, of Oskaloosa, Jefferson county, who has for several years bred high-class Berkshire swine. Since his late retirement from the duties of a county official he is recruiting his herd and intends strengthening with a view of having one of the best Berkshire herds in the State. Among others lately added were four head of youngsters, three boars and a gilt, that were sired by Royal Champion 23654, he by Volunteer 18514; dam Silver Tips 17458, she by British Champion II. and out of Sally Girl 11643 by Sovereign Duke 3089. Both sire and dam of the young quartet were State and district first-prize winners. They were bred by Kirkpatrick & Son, of Leavenworth county, who lately closed out their herds on Hazelhurst farm. All four are coming on in good form, and especially is this true of one of the young fellows that has been selected for harem service in the herd. The well-up Berkshire breeder will find one of the best of brood sows, Gentry Belle 32683, in the herd, that will reach her two-year-old form in May. She was sired by Model Duke II. 22467, a Gentry-bred boar, and out of Maguire 22608. Such are her strong maternal characteristics that she is sure to stand in the front short line, as she possesses that inherited capacity to not only farrow large, strong litters, but the ability to raise them as well. Her six-weeks-old litter of eight are the kind—the broad, thrifty, silk-finished sort that come up to the ideal of the modern swine breeder, no matter what breed he may specially lean to. Later on more will be given concerning Mr. Brown's herd and the excellent individuality of its make-up.

The writer, a few days ago, dropped in on Mr. W. L. Chaffee, manager of Shannon Hill stock farm, near Atchison, in Atchison county, and took a look over the stock on the farm. All have come through winter in good condition, especially the youngsters of both sexes. Several of the young fellows have been sold and gone out to new masters, yet there are a lot of seven sons about a year old that were sired by Winsome Duke 11th 115137, one of the best bred, high character individuals that ever stood on Kansas soil. He was sired by Wild Eyes Duke 6th 89943 and out of Imp. Wild Eyes Winsome 2d (Vol. 20, p. 16266), that was bred by Mr. J. Rigg, Wortham, Hill Park, England. This richly-bred cow was imported in 1880 by the late well-known Missouri breeder, Col. Valle. The reader will find on tracing up the breeding of Winsome Duke 11th and then looking over his sons and daughters at Shannon Hill, that he is a royally bred individual and a sire of great merit. His get are of the broad-backed, square-shouldered, easily-handling, deep-meated type, and possess those characteristics that every Short-horn breeder delights in and every progressive farmer ought to have. It is heard on every hand that the cattle men "are in it again," and no Western breeder of pure-bred cattle is more entitled to the good things that will come therefrom than is ex-Governor Glick,

the proprietor of the farm and herd. His ambition don't seem to be at rest yet, as he keeps adding recruits, and among those that came to the farm within the past few days was the highly-bred three-year-old cow, Red Wild Eyes, with a heifer calf at her side. This cow was sired by Waterloo Duke 8th, now at the head of the strong Iowa herd of Elbert & Falls, at Albia. He was sired by Winsome Duke 3d and is a grandson of the 31st Duke of Airdrie. The dam of Red Wild Eyes is Wild Eyes 38th by the 31st Duke of Airdrie, and out of Imp. Wild Eyes 34th. The well-up breeder in Short-horn history will at once see that the combination of blood in the cow belongs to the Winsome Wild Eyes, Waterloo Duchess and Wild Eyes 34th, the best belonging to the Fruitland herd, owned by the late Col. Valle. The youngster was sired by Peculated Wild Eyes, one of the greatest favorites ever in the Valle herd. Such is the high character of the young heifers—a major portion now giving great promise of future show ring individuals—that all will be reserved for future usefulness on the farm. Much could be written about the young fellows before referred to, but space forbids save to say that they are worthy the ambition of the practical breeder and a credit to Shannon Hill farm.

A few hours last Friday at Sunny Slope farm, near Emporia, was pleasantly spent in company with the energetic manager, Mr. H. L. Leibfried, in looking over the late new-comers to the farm. In the Poland-China division of the swine herd were three gilts that are, to use the silver-toned expression, "bred up away out of sight." Two of them came from the noted Iowa herd of Swallow—Ideal Lady U. S. and Tecumseh's Mortgage Lifter. The former one was sired by Ideal Black U. S. 39505 O., he by Black U. S. 13471 O.; dam Graceful 73020 A., she by King Tecumseh 2d 14935 A., and out of Corwin Buckeye 28612 A. The reader will find that she has two crosses of Tom Corwin on side of dam and possesses much character, though young she yet is. The other one, two days older, Tecumseh's Mortgage Lifter, is by King Tecumseh 2d 14935 A., he by King Tecumseh 11793, that was bred by Klever, of Ohio; dam Mortgage Lifter 31864 A., she by Marnard's Choice 8469 A. and out of Des Moines Gem 1st 14438 A. The first mentioned, Ideal Lady U. S., is a daughter of the \$1,000 boar and a full sister to Swallows' Ideal U. S., for which he refused \$300 when a pig. The well-versed Poland breeder recognizes the great reputation and worth of Tecumseh 2d as a getter of high-class individuals. The third lassie, Lady of the Slope, farrowed June 24, 1894, bred by Shellenberger & Co., of Ohio, was sired by Michigan 32537 O., dam Royal Gem (Vol. 17 O.) She is in pig to Victor E. 12265 C. and due to farrow May 18. To describe her would be to place her in the front row of, say, a half-score lot of all the show-ring lassies of the State, and "you've got her." It is perhaps not saying it too strong to state that the swine herd at Sunny Slope is the largest in the State, and in order that the reader interested in swine husbandry may have some idea of the breeding operations, a brief review of the several harem kings now doing service in the herd will be given. Standing at the head of the inner circle of six harem masters is the two-year-old, last October, Longfellow 29735 O., by Lawrence Perfection 27399 O.; dam Beauty's Prospect 51128 O. He won first in class at the World's Fair and has proved himself a great breeder. His get are generally among the first to be selected by the visitor. Two of his daughters that were retained in the herd now at eleven months of age weigh 400 pounds each. Another lot of four sows pigs at nine months weigh 336 pounds each. Several of the spring litters that have arrived out of high-class sows are by Longfellow and a right promising lot they are. His chief lieutenant is the young fellow, Hadley Jr. 13514 S., by Hadley 27105, he by One Price 18637; dam Samboline 8th 59952 O., she by Tecumseh's Chip 10211 O. His fifth dam was Cora Shellenberger 2880 O. and she by Tom Corwin 5710 O. The reader will at once recognize his superior breeding and will find on a personal inspection of him that he is right up in the final short list of less than half a score of topsy fellows that could be marshalled for show ring honors in Kansas. The writer believes that it lies between not more than three individuals, with chances a shade in favor of Hadley Jr., still we shall be content until September and let the future outcome then decide where the mantle shall go. Close up in Hadley Jr.'s company is the thirteen-months J. H. Sanders Jr., by J. H. Sanders 27219 O., the World's Fair winner; dam Graceful F. 63408 O. Every well-up Poland breeder knows his breeding, and such is his general conformation and high-class family character that the visitor is sure to conclude that something more than ordinary is to be expected from him. Another harem king is the yearling Sir Charles Corwin, sired by Latest Fashion, a son of One Price 18639 O. His dam was by Corwin U. S., the sire of J. H. Sanders; second dam Josie Wilkes by Adam, the sire of the dam of Guy Wilkes 2d; third

dam by Tecumseh Boy; fourth dam by Black Rose, she by Success, the sire of Black U. S. In looking over his extended pedigree one finds that he, too, is closely related to Hadley 27105 O., that was bred by Klever, Hadley & Hendrick, and won second in class at the World's Fair. The eleven-months-old chap, Tecumseh C. S. (Vol. 17 O.), bred by Shellenberger, of Ohio, sired by Joe Coler 2d 29569 O.; dam Lou 64632 O. He is a half brother to the first-prize winner at the Nebraska State Fair, 1894, as boar under 6 months. His fourth dam was by Tom Corwin 2d and his fifth dam by Tom Corwin. Among others that were bred on the farm and retained is a son of Sensation 10790 S., who won eleven sweepstakes prizes during the time of one show season. Such is the high character of the son that he was named Leibfried's Sensation 13316 S. His grandsire on the paternal line was One Price 4207 S.; dam Black Swallow 29888 S., by Iowa Champion 2d 6279 S. and out of Miss Young Gold Dust 29187 S. These brief notes will give the reader some idea of the blood that is being incorporated in the Poland division at Sunny Slope. In the brooder division are seventy-five head that have or are in expectancy to farrow within three months. Several fine litters have already put in an appearance. The Berkshire division, of about fifty head, are mainly of Gentry breeding and are presided over by four herd boars headed by Major Lee 31139, he by Onward 25383; dam Lady Lee 27300. He was out for honors in the show ring in 1893 and won first at the Kansas State fair. His lieutenants are Prince of Wales 28666, he by Longfellow 16835; dam Duchess CX. 16457. Longfellow was a litter brother to Duchess CXIII, that was the dam of Duchess CXIII, that won first and sweepstakes at the World's Fair, her winnings there aggregating \$552.50. The ten-months youngster, Royal Peerless the Great, by Prince of Wales 28666; dam Blue Ribbon 29559, one of the greatest prize-winning sows ever shown on Kansas soil. The young fellow in his conformation is a typical, smooth, well-balanced individual and the making of a sure prize-winner. Close up is General Lee, of April, 1894, farrow, that was sired by Model Lad 23319; dam Lady Lee XV 27554. This much briefly of the harem masters will give the reader some idea of the Berkshire blood which is being blended with the female division that consists of the Duchess and Lady Lee families, and among them are two extra good breeders belonging to the Royal Peerless and the old Windermear strains. The cattle herd is known to be the second largest collection of registered Herefords in the United States, the first being owned by Messrs. Guggell & Simpson, of Missouri. The bulls used and being used were the noted Beau Real 11055; Wild Tom 51592, a son of Beau Real and out of Wild Mary 21238; Archibald V. 54433, he by Archibald I. 39258 and out of Lilly 4th 39552. Among the late recruits that have been added to the harem king division are two youngsters from the Hickory Grove herd, at Fowler, Ind. One is known as Lomond (Vol. 15), calved March 29, 1894, sire Cherry Boy 26495, he by Fowler 12899; dam Louise 37012, she by Saracene 23188 and out of Lark 6979. He is coming on in grand good form and has conformation promise equal to that of his noted sire, which is enough to say of him at this time. His coadjutor was dropped October 25, 1894, sired by Venture 54351, he by Star Grove 3d 2490; dam Miss Lark 30995 by Ethelbert 16633, he out of Lark 2d 6979 by Rodney 2563. The young fellows are intended for service on the Beau Real and Wild Tom heifers, and its but natural to expect something that will add additional honors to the individual make-up of the Hereford herd at Sunny Slope farm. Mr. Leibfried has made several trips, visiting many of the leading herds of the East, and states that he is satisfied that the combined swine herds on Sunny Slope farm makes it the largest herd now aggregated in the United States.

W. P. BRUSH.

Homes for the Homeless.

The opening of two Indian reservations in northeastern Utah to settlers opens up over three and one-half million acres of fine agricultural and stock-raising land for home-seekers.

The Uintah and Uncompahgre reservations are reached by the only direct route, the Union Pacific system, via Echo and Park City. E. L. LOMAX, G. P. & T. A., U. P. system, Omaha, Neb.

Florida, Cheap.

Special one-way excursions via the Memphis Route (Kansas City, Fort Scott & Memphis railroad), on Tuesday, March 5, and April 2, to all points in Florida, at greatly reduced rates, 1½ cents per mile.

The "Memphis" is the daily through car line from the West to Florida—and the only one.

For maps and full particulars, ask a Memphis Route agent, or
J. E. LOCKWOOD, G. P. A.,
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Gossip About Stock.

Stockmen interested in the new forage plant, sacaline, should write our new advertiser, A. Blanc & Co., of Philadelphia.

E. D. King, Burlington, Kas., announces that he will hold a public sheep-shearing at his Meadow Brook farm, on April 1 and 2, and everybody is invited to attend. He reports a nice lot of lambs and yearlings by his sweepstakes ram.

Highland stock farm, Topeka, Kas., has on hand some fine specimens of Percherons and English Shire horses recently imported. The proprietors of the farm have made a specialty for many years of importing and breeding the finest horses of the breeds mentioned that can be found in this country. Write them for catalogue and prices. Address Highland Stock Farm, Topeka, Kas. Notice their advertisement elsewhere in this issue.

DR. ORR'S BOOK.—Readers of the KANSAS FARMER will be pleased to know that arrangements have been made whereby they can obtain this concise and well nigh invaluable "Farmer's Ready Reference or Handbook of Diseases of Horses and Cattle" in combination with this paper at a slight saving in cost.

The separate prices of these are:

Dr. Orr's Book.....	\$1.25
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Two dollars sent either to the Kansas Farmer Co., Topeka, or to Dr. S. C. Orr, Manhattan, will secure both, making a saving of 50 cents.

Home-Seekers' Excursion, Santa Fe Route.

On April 2 the Santa Fe will sell excursion tickets to Texas points at one fare (plus \$2) for the round trip. These tickets will be good for twenty days and will be good to stop off anywhere in Oklahoma, Indian Territory and Texas.

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The vast fertile valleys of the two Indian reservations in northeastern Utah, soon to be open to settlers comprise about 8,500,000 acres of the finest agricultural and grazing lands. The direct line to Uintah and Uncompahgre reservations is by the Union Pacific system via Echo and Park City. E. L. LOMAX, G. P. & T. A., U. P. system, Omaha, Neb.

"Among the Ozarks,"

the Land of Big Red Apples, is an attractive and interesting book, handsomely illustrated with views of south Missouri scenery including the famous Olden fruit farm of 3,000 acres in Howell county. It pertains to fruit-raising in that great fruit belt of America, the southern slope of the Ozarks and will prove of great value, not only to fruit-growers, but to every farmer and home-seeker looking for a farm and a home.

Mailed free. Address,
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The Dakota Hot Springs.

The Hot Springs of Arkansas have long been deservedly popular, for the reason that there has been no other place that has filled the requirements of both a health and a pleasure resort. This state of affairs has changed. The Hot Springs of South Dakota have, in recent years, been thrown open to the people, and because of their delightful situation and great curative qualities, are becoming more popular every day. Situated as this resort is, in the famous Black Hills, in the midst of beautiful mountain scenery, possessing that peculiar balsamic atmosphere which is in itself health-giving, with waters that are pronounced by experts equal if not superior to those of any other mineral springs in the world, it will soon outrank any other like resort.

The hotel accommodations are of the best—hostelries with all the modern improvements and conveniences. The Evans hotel, built of pink sandstone, with steam heat, electric lights, and every room an outside one, is easily the best conducted house between Chicago and Denver. Fine bath houses are connected with the best hotels. The rates of all the hotels are very reasonable. The surrounding country is more than picturesque—it is wonderful. The marvelous "Wind Cave;" the falls of Fall river; Battle mountain, the old Indian battle ground; Deadwood and the gold fields, and the famous Bad Lands are all within driving distance. The mammoth plunge bath at the springs is noted as being one of the largest natatoriums in the world. So healthful are the surroundings, and so many the conveniences of this "Carlsbad of America," that it is rapidly becoming the "Mecca," not only for invalids, but for pleasure seekers as well. The "Burlington Route" reaches there in a day and a half from St. Louis. Pullman sleepers and free chair cars on train No. 15 run to Lincoln, and from Lincoln free chair cars and sleepers run through to the springs.

For further information, call on any "Burlington Route" agent, or address D. O. Ives, G. P. & T. A., St. Louis, Mo.

Horticulture.

Report on Varieties of Grapes—Season of 1894.

Written for the State Horticultural Society, by E. P. Fisher, of Sterling, of the Committee on Vineyards.

In giving a description of the different varieties (about sixty) that I am testing, it may be well to classify them into four general classes, as follows:

First—Hardy, vigorous and productive kinds, suited to general vineyard planting in this climate.

Second—Fine table grapes, valuable for home use and careful garden culture, deficient either in hardiness, vigor or productiveness, and so not suited to general planting.

Third—Promising novelties, not yet sufficiently tested to fully determine their value.

Fourth—Varieties that have not proved sufficiently valuable to be recommended for this climate for general culture or for the table.

In the first list may be mentioned Worden, Concord, Moore's Early, Telegraph, Jewell, Champion, Martha, Niagara, Pocklington, Early Victor, Eaton, Etta, Antoinette, Isabella, Victoria, Jessica, Green Mountain, Diamond, Moyer, Ives, Berckmans and Catawba. Of these kinds the following are of such fine quality as to come also under the head of fine table grapes: Green Mountain, Jessica, Diamond, Berckmans. Other fine table grapes are Jefferson, very fine large red, not very vigorous, not quite hardy; Delaware, well known, hardy but not vigorous; Willis, fine early white, hardy but not vigorous; Oriental, fine large red, vigorous, not quite hardy; Witt, fine large white, lacks vigor; Mills, fine black, not quite hardy, generally does well with winter protection; Empire State, fine white, does well some seasons, fails in others; Ulster Prolific, fine red grape, small, a slow grower, hardy and healthy; Vergennes, large and of fine quality, ripens slowly, from August 15 to September 15; Duchess, fine white, vigorous, half hardy, rather small, quality best; Prentiss, quality best, tender, does well some seasons; also Triumph, fine late white.

Of the red grapes I would especially recommend Oriental, Berckmans and Jefferson. Jewell ripened with Champion and the quality is excellent. Lindley, Goethe, Newton and Brighton are also valuable table grapes, not quite hardy. The Newton is a very vigorous vine, the fruit is large, of a peculiar musky flavor generally liked. It is a sure bearer if given winter protection. The Oriental should be better known and more extensively planted. This grape and the Newton are grapes that I do not find in any of the catalogues, though the T. S. Hubbard Co. have a black grape which they call the Oriental, but my Oriental is red. It only fails in hardiness; in other respects is a perfect success here.

I have the following new kinds growing in my vineyard which have not yet fruited. Most of them will fruit next season: Geneva, Rockwood, Esther, Eaton, Ozark, White's Northern Muscat, Early Ohio, Carman and Colerain. I have also several seedlings of my own, very promising as to growth, health, and hardiness of vine, that will, some of them, fruit next season. I plant grape seed every season from my choicest kinds, hoping to originate some variety that will prove valuable to the grape-growers of this section and possibly in other parts of the country.

In the fourth class of kinds not recommended here, I may mention Lady, Noah, Amber Queen, El Dorado, Poughkeepsie Red. The Lady, Amber Queen and Poughkeepsie Red fail in vigor, Noah in quality, El Dorado in productiveness. I would especially recommend Victoria as a late white grape—also Etta—that never fails to bear a good crop, ripening very late, from the middle of September to the middle of October. The quality of both Victoria and Etta is excellent, especially Etta.

The Early Ohio is a new grape claimed to be earlier than Moore's Early and much more productive. I

have not fruited it yet but I find the vine is a very vigorous grower. The *Rural New Yorker* says it is but little earlier than Moore's Early, but if it is a little earlier and a more vigorous grower, which it seems to be, it may prove to be a more profitable market grape than Moore's Early, and I think will prove to be so. Its chief value will probably be as a market grape, as the quality is said to be not very good. The Catawba I can recommend with confidence for home use and market. It is a reliable late grape of good quality.

The Ozark has made a splendid growth the past season, notwithstanding the drought, and if it does as well next season in growth and is as productive and the fruit of as good quality as recommended, it will prove a great acquisition. It is said to be very late, good size, good quality.

I am much pleased with Worden, as it is larger and better in quality than Concord, but no earlier here. Its only fault is its poor shipping quality. The Brighton is a sure and abundant bearer if protected in winter, of fine quality, one of the best of the half hardy kinds.

The best keeping and shipping grapes are Mills, black, Duchess, white, and Vergennes, red. The Catawba is also a good keeping and shipping grape, and the Jefferson is one of the best in that respect. Worden and Berckmans seem to be the most deficient in the firmness required to make first-class shipping grapes. The Telegraph does exceedingly well here. It inclines to over-bear and should be pruned closely or the fruit thinned. It is of good quality when fully ripe, which requires about two weeks from the time of its first coloring.

I picked ripe Jewell grapes July 21, and Etta grapes were not all ripe when frost came, October 8. Had frost held off about two weeks longer the grape season would have extended over a period of three months. Etta is of good quality, very reliable, sure bearer and the best late white grape.

The Moyer is a small red grape of excellent quality, ripening about with Moore's Early. The vine is a slow grower when young, but when older makes a good growth.

Herbert and Wilder, black, and Iona, red, are fine grapes that promise to succeed fairly well here, with a little winter protection. Of these, perhaps the Wilder will succeed best for general cultivation.

Tarred Paper to Prevent Borers.

EDITOR KANSAS FARMER:—I am an old resident of Barber county, your State. I live now one mile from Perry, Noble county, Oklahoma, on a fine claim that I got in the "run." I have an orchard of 1,500 trees, which I wrapped with tarred paper to keep the rabbits off. I lost about sixty trees by borers last year. Now, will it do to leave the tar paper on the trees to keep the borers off this summer, or will it injure the trees? If you don't know, please find out through the columns of your valuable paper, which I would be lost without.

Perry, Okla. C. F. COLCORD.

The tar paper will not prove an effectual preventive of borers, but would be apt to check them. The paper would protect the bark of the trunk from hot sun in summer, which would be a benefit, but if too tightly wrapped around the trunk it will have a tendency to make the bark too tender. It is necessary that air circulate freely around the bark.

Points as to Strawberries.

EDITOR KANSAS FARMER:—I wish information in regard to the Miner and Lady Rusk strawberries. Will they do well on black soil? Are they early or late? Are coal ashes any benefit to strawberries? If so, how much shall I put on?

Peabody, Kas. H. M. STUTSMAN.

[These inquiries were referred to B. F. Smith, the strawberry-grower, of Lawrence.—EDITOR.]

Replying to your correspondent's inquiry would say, the Lady Rusk strawberry does no good in eastern Kansas, and I hardly think that it will pay out west. I have discarded it. The Miner does best on sandy soil. It has never done well for me on our black, waxy soil. The Lady Rusk is medium early,

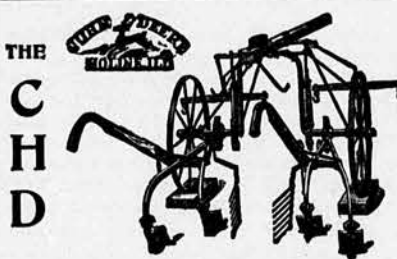
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No Cultivator ever had such a remarkable run the first season. Sales nearly 20,000 in 1894

and this year will be greatly increased. The C. H. D. is simply the best Walking Cultivator ever made and as yet has no imitators. It sells at sight. For sale by one dealer in a town. See it before you buy. Write us for illustrated circular.

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The Miner comes in about a week later than the Crescent.

I have never made any profit in the use of coal ashes as a fertilizer for any kind of crops. I have frequently tried them in different ways, to test their value in crops. Now, the most useful place I find for coal ashes is for foot-paths.

B. F. SMITH.

Lawrence, Kas.

Arbor Day.

Governor Morrill has issued the following Arbor day proclamation:

"When our State was admitted into the Union it was a vast prairie. Trees were found only skirting the numerous waters to the sea. Artificial groves were almost unknown. Now in the eastern part of the State the prairies are dotted with beautiful groves, offering shade to the traveler and rest to the weary husbandman. The whole aspect of the country has been changed. In many of the eastern counties it has more the appearance of a timber country which has been partially cleared.

"It was a wise suggestion of one of my distinguished predecessors that a day be set apart to be devoted to the people of the State to planting out trees. Every school house and every church in the State should be surrounded by them. The highways should be lined with beautiful shade trees and every home should be beautified by the planting of trees and shrubbery.

"I would, therefore, most earnestly urge that the 11th day of April be set apart as Arbor day, to be devoted to beautifying the home and the public grounds of the State."

The base of Ayer's Hair Vizer is a refined and delicate fluid, which does not soil or become rancid by exposure to the air, and which is as perfect a substitute for the oil supplied by nature in youth and health as modern chemistry can produce.

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Apple trees, 2 and 3 years old, strong, \$6 per 100; \$45 per 1,000. Concord Grape, \$1.25 per 100; \$10 per 1,000. Asparagus, 2 year, strong, \$3 per 1,000. Strawberry plants, 60c. per 100; \$3 per 1,000. Cherry and Pear, 20c. each; Plum, 15c.; apricot, 15c.; Peach, 10c. Blackberries, \$8 per 1,000. Hardy Hybrid Perpetual Roses, 2 year, strong, 15c. each, \$1.25 per 10. Climbing Roses, 2 year, 10c.; per 10, \$1. Thirty Greenhouse or Bedding Plants, \$1—all different. Plants by mail or express. H. H. KERN, Manager, Bonner Springs, Kas.

UR invited to send for my latest price list of small fruits. Half million strawberry plants, 300,000 Progress, Kansas and Queen of West raspberry plants. B. F. Smith, Box 6, Lawrence, Kas. Mention this paper.

A. H. GRIESE, Prop'r Kansas Home Nurseries, Lawrence, Kas. grows trees for commercial and family orchards—the Kansas Raspberry, Blackberries, standard and new Strawberries—also shade and evergreen trees adapted to the West.

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The White Persian, the largest and best flavored on earth. Nothing better to be desired. Write for prices and particulars to Larkin Commission Co., Wichita, Kas. Mention FARMER.

STRAW RASPBERRY, BLACKBERRY and all kinds of small BERRY fruit plants at lowest prices. 1,000,000 plants of 1895. 100 varieties. Largest growers in the West. Cat. free. Address F. W. DIXON, Netawaka, Kansas.

Box Elder, Ash and Black Locust \$1.25 per 1,000! 10" Apple Trees, - \$3.50 All the leading sorts. 100 choice Concord Vines, \$2.00 1,000 Russian Mulberry, \$1.15 Shade trees below cost. Complete price list free. Address JANSSEN NURSERY, Jefferson Co. Jansen, Neb.

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The Poultry Yard

The Cooper's Hawk.

The subject of the accompanying sketch so closely resembles the pigeon, or sharp-shinned hawk that the two species may be economically treated together. The following description will apply to both species: Upper parts of the head brownish black; back, bluish gray, with the upper side of the tail crossed by black bands; the lower portions white, with breast and sides marked with bars of red. The length of the cooper's hawk varies from 16 to 20 inches; extent about 30. The sharp-shinned hawk measures about 6 inches less.

Both these species are very abundant over the greater part of North America. They are the hawks that are distinctively chicken hawks, and are mostly responsible for the reputation that has been falsely conferred upon the beneficial species.

On the wing these hawks may be distinguished from the beneficial sorts by their nervous, rapid and irregular flight. They have the habit of flying low, and are rarely seen soaring in the sky like their larger cousins. They subsist in the main on a bird diet, but occasionally insects and even small quadrupeds are consumed.

In some parts of the northwest the cooper's hawk has earned a good reputation, but over the greater part of its range it is a terror to bird and fowl alike. Even the swift-flying partridge or grouse, fully aware of its enemy's presence, must be in a dense thicket to stand any chance of escape, and even then an escape is due to a timely drop into some brush pile, where its protective color and motionless form come to



COOPER'S HAWK.

the rescue. When a sharp-shinned or cooper's hawk attacks a flock of poultry, its visits are likely to be continued indefinitely. Dr. Warren states in Fisher's Hawks and Owls of the United States, page 38, that one pair "destroyed some fifty chickens from one farm, twelve of which were taken in a single day."

The sharp-shinned hawk is very fond of pigeons and often works fearful havoc among some fanciers' dove-cotes. A few years ago the writer was watching a flock of doves feeding near, when a sharp-shinned hawk swooped down on one of them, but missed his bird as the pigeon fairly brushed him off in flying through the lowest space in a board fence. The hawk followed, passing through the next space above, but evidently out of respect for the pigeon's presence of mind, he ceased pursuit and quietly fluttered off towards the woods.

Both the above species at times are exceedingly bold, and seem to depend on their rapid wings to carry them off in safety. A few years ago one was known to attack the person of Mr. C. D. Walcott, in Lewis county, N. Y. The bird continued the assault for some time before it was dealt a fatal blow with a hammer.

These birds' bad habits incidentally turn them to good in case of the English sparrow. In cold weather, when most native birds have gone south and the barnyard fowls are in winter quarters, the English sparrows furnish a con-

stant supply of food. This trait, coupled with their insect-eating habits, shows us that there is some utility even among the most fierce and relentless of the feathered tribes.—Charles B. Cook, in Country Gentlemen.

Eggs in Cold Weather.

When an egg is exposed to severe cold it is quickly injured. The contents expand and the egg cracks open, which renders it useless except to be quickly used upon the table, as such eggs can not be sold. Even if the egg does not crack, the extreme cold destroys the germ, and if it is used for incubating purposes it will not hatch. Then, again, when an egg has been frozen and then exposed to a higher temperature until it thaws, it will be no longer fresh, as decomposition quickly begins. In winter always collect the eggs often, so as to avoid freezing them.

Keep Only One Breed.

It is best to undertake only one breed of fowls or, at most, two if both eggs and broilers are desired. This will give you an opportunity to note closely the good points of the fowls and try to improve them. It will pay to start with a good breed, provided proper attention is given to the raising and feeding. Under such conditions the thoroughbreds will always distance the barnyard fowls in the amount and quality of their products, but they will not stand neglect any better. Time and trouble are required in grading up your stock, but they will run down hill rapidly and without effort if once you relax your care.

In the Dairy.

Conducted by A. E. JONES, of Oakland Dairy Farm. Address all communications Topeka, Kas.

The Dairy Cow.

EDITOR KANSAS FARMER:—To dairy students, the illustrated article in the FARMER of February 27, on experiments at the Minnesota Agricultural Experiment Station, is of great value, and should be filed away and used whenever purchasing or judging dairy cows.

It has been well said that there are cows and cows, good, bad and indifferent, and few dairymen even have any idea of the number of poor cows—cows that only pay their way—that may be found in nearly all herds. Then there are many cows that actually run their owners in debt. Since the introduction of the Babcock milk-tester these cows can be easily detected. Several years ago I thought we had a lot of cows without a shirk in the herd, but when I applied the tester I found we had cows that were living off the good honest work of other members of the herd; not only this, but they were the very cows that I had taken a fancy to and never suspected that they were robbing me, as I had implicit confidence in them and my own judgment. These cows had the form of "Dido"—nice and smooth. It did one good to look at them as they stood in their stalls munching their feed. They were the cows that buyers always wanted, ready sale at any time at fair prices.

Now I do not want to be understood as saying that all individuals of the "Dido" type will prove to be what she is, but as a rule they are the cows that dairymen do not want. At least 90 per cent. of that type of cows are too expensive to admit of any profit to the dairyman; yet, as I said, I have found cows of this type that were money-makers. But while they were the type of "Dido," they had the faculty of putting their feed in the pail instead of on their ribs.

Compare the appearance of "Dido," the most expensive cow, whose butter fat cost 15.2 cents per pound, with "Houston," who made a pound at a cost of 10.8 cents. The difference in type is as marked as the difference in the cost of their products. In the first type we have illustrated what most men call the general-purpose cow, and I am sorry to say that many professional dairymen are still building on this myth, notwithstanding the often proven fact that she is a failure as a

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dairy cow. But let us examine the type of cows represented by "Houston," a cow that is not so nice to look at but who is able to do profitable work at the pail. My experience is that she is a good representative of the profitable dairy cow, and while I have known a few of them to fail, yet the failures, when compared with the first type, are very insignificant, and while we have owned many cows we have never had a failure, all things being equal, with a cow of the "Houston" type.

I am aware that men will hoot at the idea of "dairy form," but I believe just as much in dairy form for a dairy cow as I believe in racing form in a race horse. All must admit that we have a form, type or standard in horse-flesh, that there is a wide difference in the make-up of a draft horse and the roadster or race horse; then why not in the cow?

At some future time I will try and point out the dairy points in "Houston," and give the readers of the FARMER some reason for the faith I have in dairy form for the dairy cow.

Elm City, Kas.

M. E. KING.

Some Market Points About Butter.

Mr. E. H. Harris, of a Boston commission firm, scaled the butter exhibited at the Maine dairy convention held at Farmington, and, in a few words in response to a call, told the convention that Maine butter did not rank high in the market for the reason that dairymen would persist in feeding cottonseed meal. It was true that some good samples were to be found, and it held good that a limited use of cottonseed meal worked no serious harm, but still when fed freely it was sure to flavor the product to its injury. The food of the cows should be of the best kind at all times in order to have a fine product. The value of butter increases with the quality every time. Flavor is the most important factor, but not all. The package should be neat and inviting. The winter season was bad for first quality. His standard was the demand of his customers. The scale which he used in judging the butter exhibited at this convention was the same as that used by the judges, of which he was a member, at the World's Fair. Good commercial butter would score 90 points. Above that was extra and below is inferior. In a rank of 90 flavor will be 38 to 40, and the butter he had seen in the exhibit failed in flavor more than in any other feature. The flavor was given by the food.

Milk and Butter Notes.

Slow churning will get more fat out of milk than rapid churning will.

Digestion is best accomplished when all other parts of the body are at rest.

A cow may give but a small quantity of milk, but her milk may be very rich.

Kindness and gentleness with the cows is the best policy, if the best flow of milk is to be secured.

There is less loss if the milk is drawn away from under the cream than to have the cream skimmed off.

The amount of butter that can be made is limited by the amount of butter fats that the milk contains.

It is not so much the amount of butter a cow produces, as what it costs to produce that determines the profit.

To make the best cow out of the growing heifer it is important during growth that her feeding and care should be such as will secure the best development.

The surest way of management is to get animals of a good milking strain and give her such treatment as is best calculated to secure the largest quantity and the best quality.

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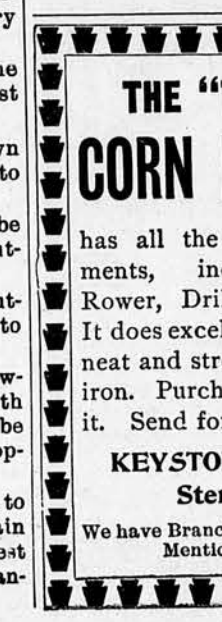
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Chicago Market Review.

Our Chicago correspondent writes under date March 23 as follows:

"There was considerable force to all speculative markets this morning. Provisions were strong and higher. Wheat was advanced on the heavy week's export, both coasts, and a fresh estimate based on reports from 2,000 millers that farm reserves of wheat are but 82,000,000 bushels. In a little more than one hour the price of May wheat made a straight advance of 1 cent. It was partly in the nature of a reaction, which was due after four days of decline, partly the result of bullish statistics on exports and farm reserves, and helped on by the largely oversold condition of the local trade.

"Corn followed wheat slowly. There was some short selling yesterday when wheat was on the decline. The same people had to cover their corn when wheat got an upturn this morning.

"The following are the opening and closing prices to-day:

"Wheat—March, opened 53½¢, closed 54¢; May, opened 54½¢, closed 55½¢; July, opened 55½¢, closed 56½¢.

"Corn—May, opened 45½¢, closed 46½¢; July, opened 45½¢, closed 46½¢; September, opened 46¢, closed 46½¢.

"Oats—May, opened 29¢, closed 29½¢; June, opened 27½¢, closed 29½¢; July, opened 28¢, closed 28½¢.

"Pork—May, opened \$12.07, closed \$12.20; July, opened \$12.25, closed \$12.40.

"Lard—May, opened \$7.00, closed \$6.97½; July, opened \$7.10, closed \$7.15; September, opened \$7.25, closed \$7.30.

"Ribs—May, opened \$6.05, closed \$6.15; July, opened \$6.22½, closed \$6.27½; September, opened \$6.37½, closed \$6.45.

"Receipts of stock this week as follows: 38,133 cattle, 3,168 calves, 153,902 hogs, 58,026 sheep.

"Estimated receipts of cattle to-day 1,000. After the sales of the few loads of steers on sale, business lapsed into the usual quiet Saturday's routine, the general market closing steady. The big upturn of Wednesday brought about a reaction yesterday and to-day of 10 to 20 cents. This is considered healthy, although it is often risky to discount the future at a high range of prices.

Texas cattle advanced in sympathy with other grades, and prices of all kinds of steers are from \$1.50 to \$2 per hundred higher than one year ago. Good to choice butcher stock also sold higher during the week, but common to fair cows and bulls do not seem to advance to any great extent, and they must be bought very carefully in order to avoid a loss. The following shows the current range of values for the stock described: Choice natives, 1,400 to 1,600 pounds, \$6.25 to \$6.50; good natives, 1,300 to 1,500 pounds, \$6.00 to \$6.25; fair natives, 1,200 to 1,300 pounds, \$5.50 to \$5.75; choice natives, 1,100 to 1,200 pounds, \$5.75 to \$6; good natives, 1,100 to 1,200 pounds, \$5.25 to \$5.50; fair natives, 1,000 to 1,100 pounds, \$4.75 to \$5; good, cows and heifers, \$3.50 to \$4.25; fair cows and heifers, \$3 to \$3.50; common cows and heifers, \$2.25 to \$2.75; stockers and feeders, \$3 to \$4. Bulls and stags, \$2.50 to \$4.50.

"Receipts of hogs to-day 10,000. The receipts show a decrease this week of about 34,000. There was a good active market to-day with values again on the upturn and everything sold at an advance of 5 to 10 cents. The hog market has advanced from 15 to 25 cents this week. We quote rough and common, \$4.60 to \$4.65; mixed and packers, \$4.70 to \$4.80; prime heavy and butcher weights, \$4.85 to \$4.95; one lot at \$5; prime light, \$4.65 to \$4.70; other light, \$4.50 to \$4.60. During the corresponding week last year, under a moderate run, values advanced 10 cents per 100 pounds, good hogs of all weights selling from \$4.55 to \$4.70. Same week, 1898, range was from \$7.15 to \$7.65, and in 1892, \$3.75 to \$4.75.

"Receipts of sheep to-day 5,000. Receipts increased about 12,000 over last week. The great bulk of the receipts to-day were 'on contract' largely for export and fixed prices, but a few natives sold at strong prices and the general market closes 20 to 35 cents higher than last week, with an active business in the meantime. We quote: Prime wethers, for export, \$4.65 to \$4.90; fat to good, mixed, \$4.25 to \$4.40; all ewes fat, \$4 to \$4.10; common to fair, \$3.50 to \$3.75; good to prime lambs, \$5.50 to \$5.90; fair to good, \$5 to \$5.40; common to fair, \$3.25 to \$4.50."

A Chance to Make Money.

In the past week I have made \$125 and attended to my household duties. I think I will do better next week. It seems the more dish-washers I sell, the more demand I have for them. I think any lady or gentleman, anywhere, can make money in this business. It is something every family wants, and when they can be bought so cheap they buy them, and the person who has enterprise enough to take an agency is bound to make money. I wish any of your readers that wish to make from \$5 to \$12 a day would try this business and report their success. Any one can get full particulars by addressing the Iron City Dish Washer Co., E. E. Pittsburg, Pa. Such a chance is rare—at least I have never struck one.

MANTHA F. B.



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WHITE PLYMOUTH ROCK ONLY—At Nottawa farm. Eggs fifteen for \$1. Mrs. W. P. Popenoe, Berryton, Shawnee Co., Kas.

FOR SALE—One black jack, 7 years old. A good breeder. T. K. McGlathery, 602½ Kansas Ave., Topeka, Kas.

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WANTED—Buyers for Large English Berkshires. One hundred pure-bred pigs, farrowed in March and April, are offered for sale at from \$10 to \$15 each. Farm two miles west of city. Riverside Stock Farm, North Topeka, Kas.

MAMMOTH YELLOW DENT—And Hill's Large White corn, \$1.25 per bushel; five bushels \$6; sacks free. James Bottom, Onaga, Kas.

WE MAKE A GOOD FARMER'S SPRING WAGON, two easy backs and let-down end-gate, for \$55. Warranted. Kinley & Lannan, 424-426 Jackson street, Topeka.

WHITE W. H. WILLIAMS, TORONTO, KAS., for Comet Sprayer, a triple air-chamber force pump. Throws continuous stream. Agents wanted.

FOR PURE GARDEN AND FIELD SEEDS—Go to Edson & Beck, 212 East Sixth Ave., Topeka, Kas. Mention the KANSAS FARMER.

SWEET POTATOES FOR SEED—All leading varieties. Plants in their season. Lowest prices. Correspondence solicited. B. F. Jacobs, P. O. Box 122, Wamego, Kas.

FARMERS WHO WANT FARM AND GARDEN seeds suited to southern Kansas should write to Ross Bros., Wichita, Kas., for catalogue. Their seeds grow.

WANTED—For cash or exchange, farms, ranches, real estate or merchandise of all kinds. We control large amount of valuable properties for sale or exchange at 1895 prices, for property in Missouri, Kansas, Texas and other States. Send full description of what you have and what you want, but do not inflate values and thereby prevent sale or exchange. Jno. M. Phillips & Co., 380-381 New York Life Building, Kansas City, Mo.

EGGS FOR SALE.—B. P. Rocks, B. Langshans and S. L. Wyandottes. G. W. Johnston, Marion, Kas.

STRAWBERRY, RASPBERRY, BLACKBERRY and rhubarb plants for sale. J. C. Banta, Lawrence, Kas.

FOR SALE—SEED CORN—Royal Dent, large yellow, extra fine, very early. Never fails to produce a full crop of large, sound, heavy ears, even in the driest seasons. Most profitable variety for dry climates. To be sure of a good crop plant only this variety. Only a limited supply for sale. Order early. Say whether to ship by freight or express. Price, \$1 per bushel; ten bushels for \$9. Address P. H. Thomas, Lock Box 455, Wichita, Kas.

STRAWBERRIES.—I have tested many varieties in my eight years experience, but for earliness, lateness and productivity have had none to equal Barton's Eclipse, Princess and Parker Earle. Twelve plants of either, by mail, 25 cents; 100, \$1. By express, 1,000 \$5, not prepaid. Have Timbrell, Robinson and others. Wm. Brown, Lawrence, Kas.

CHOICE SEED POTATOES FOR SALE—Yielded 225 bushels per acre last year. Address J. C. Randell, Hamburg, Iowa.

IRRIGATION PUMPS.—For prices of irrigation pumps used by the editor of KANSAS FARMER write to Prescott & Co., Topeka, Kas.

SEND FOR PRICE LIST OF SURPLUS NURSERY stock, including apricots, quinces, dewberries, rhubarb, lilacs, privets, Japan scarlet quinces, African tamarix, trumpet vines, wisterias, roses, tris, honeysuckles and Savon junipers. I also have a general stock of fruit trees, small fruits, etc. B. P. Hannan, Arlington, Reno Co., Kas.

3,000 BUSHELS SEED SWEET POTATOES! for sale. Ten best kinds. Also plants in their season, at bed-rock prices. Inquire of N. H. Pixley, Wamego, Kas.

BERKSHIRE SOWS—Safe in pig to imported Lord Comely. Individually and breeding the best. Wm. B. Sutton & Son, Russell, Kas.

FOR SALE—The tried and grand breeding boar, Kansas King 8911 S., sired by Dandy Jim 5442 S. and out of Broadback (11913). Weighs 700 pounds. He is a desirably-bred boar, extra good in conformation, having broad back and extra good ham. Sunny Slope Farm, Emporia, Kas.

CHOICE EARLY OHIO SEED POTATOES—Nine-centa per bushel, in barrels or sacks. Yellow and red sweet potatoes, 50 cents per bushel, in barrels. Early Amber sorghum cane seed, 80 cents per bushel, in sacks. Red and White Kaffir corn, \$1 per bushel, in sacks. Stowell Evergreen sugar corn, \$1.30 per bushel, in sacks. Early large field corn, yellow and white, 70 cents per bushel, in sacks. Evergreen broomcorn seed, 90 cents per bushel in sacks. Ground onion sets, \$2 per bushel. Red Wetherfield onion seed, \$1 per pound. All seeds delivered in good order, f. o. b., depot here. Topeka Produce Co., No. 304 Kansas Ave., Topeka, Kas.

ALFALFA SEED. Fresh stock. W. P. Haywood, Lakin, Kas.

AUSTRALIAN Sheep Dip KREASOLE

The purest and strongest in existence. One gallon mixed with 100 gallons of water suffices for 100 to 120 sheep. All insects are destroyed; the health of the animal benefited; the quantity and quality of the wool improved. Pamphlet on diseases of sheep and sample of Dip free to any one who will write F. M. Ironmonger, Importer, 43-45 College Place, New York, N. Y.

STAHL'S EXCELSIOR

Spraying Outfits kill insects, prevent leaf blight and wormy fruit. Insure a heavy yield of all fruit and vegetable crops. Thousands in use. Send 6 cts. for catalogue and full treatise on spraying. Circulars and Address WILLIAM STAHL, QUINCY, ILL.

FREE A SILK DRESS. Every person answering this advertisement can get a handsome silk dress full 10 to 15 yds. length, all desirable shades of color, worth \$50.00, for the asking. Each one will get a handsome dress for complete dress free. We are bound to swell our annual subscription list to 50,000 within next 60 days. Don't get left out. Each one will get a handsome dress. Don't get blind; we make our offer to all answering this advertisement so send at once. We mean what we say; our Illustrated Home Weekly is one of the brightest, most humorous family news & story papers published, contains latest hints on dress, fashions, &c. If you desire send 10 cts. silver or 15 cts. stamps to pay for addressing, packing & posting & we will send you each week for 3 months. No chance, no guessing. Our offer is made to everyone. We can show proof for hundreds of dresses given away. Send at once, get your name on our 60,000 list & we will send a handsome dress. **J. TURNER PUBLISHING CO.,** free same day your subscription is received. Don't miss our offer. Write at once. 10 Spruce St., N. Y. City.

BABY CARRIAGES Shipped C.O.D.
Anywhere to anyone at Wholesale Prices without asking one cent in advance. No pay freight. Buy from factory. Save dealer's \$18.50 Carriage for \$9.25. Profit \$12.00. " " " \$5.95. Illustrated catalogue \$5.00. " " " \$2.05. Free Address **CASH BUYERS' UNION**, 164 West Van Buren Street, B. 64, Chicago, Ill.

Kansas Tannery.

ESTABLISHED IN 1889.

Does a general tanning business, including robes, rugs, etc. Tanning Galloway hides for robes a specialty. First-class work, reasonable prices. All kinds of leather in stock—best quality. Have you any oak bark? Good prices paid for it. Write me.

M. C. BYRD, Lawrence, Kas.

Arched Hedge-Trimmer!

In working up this invention our leading thought was to produce a horse Hedge-Trimmer which would be so cheap and efficient that any one who has a mile of hedge to trim can afford to buy one. By means of this device a grass mower can be transformed into a perfect hedge-trimmer in ten minutes, which will cut any desired height or width, and as even as grass stubble in a meadow, and will trim from six to eight miles of hedge in a day. Sold direct to the farmer for \$25, on easy terms. No agents. **E. C. GORDON & SONS, Chetopa, Kas.**

DIRECT-UM BIT!

Best Combination Bit made. Severe or Easy as you want it. Sample mailed, X.C. \$1.00. Nickel..... 1.50.

RACINE MALLEABLE IRON CO., Racine, Wis.

LARGEST LINE
Made in the World.
ALL STEEL OR WOOD STEEL LINED.
Perpetual & Large Bale, Steam, Horse & Hand Power. Guaranteed the Best. Write for Catalogue.
FAMOUS MFG. CO., Chicago, Ill.

AGENTS \$75 A WEEK AT HOME, using or selling **PRACTICAL PLATING DYNAMO**. The modern method, used in all factories to plate new goods. Plates gold, silver, nickel, etc., on watches, jewelry, table-ware, bicycles and all metal goods; fine outfits for agents; different sizes; always ready; no battery; no toy; no experience; no limit to plating needed; a great money maker.
W. P. HARRISON & CO., Clerk No. 15, Columbus, Ohio.

Cures Epilepsy!
Every person in the United States suffering with Epilepsy (or Fits) can have one of my large size bottles of **EPILEPSY CURE—FREE**.
I CAN CURE YOU.
My treatment is endorsed by the highest medical authority. Address
DR. FRED E. GRANT,
P. O. Box 344. Kansas City, Mo.

MUSICAL CLOCK
Box Combined. Runs 8 days, keeps perfect time & furnishes constantly all the most charming & popular tunes. Plays anything from a simple song to a difficult waltz or operatic selection. To introduce it, one in every county or town furnished reliable persons (either sex) who will promise to show it. Enclose a stamp to Inventor's Co., New York City, P. O. Box 2252.

FOR SALE! FARMS WAY DOWN.

I have excellent farms in Rooks county, Kansas, for sale, way down below their value. Will sell on contract for one-tenth down and one-tenth yearly, or will give deed if one-fourth or more is paid down. Write for particulars and state how much you can pay down and how you want the balance of payments. I also have several unimproved farms in central Nebraska and one large body of over 7,000 acres. I have a finely improved ranch of 1,440 acres in Rooks county, Kas. Any or all of above will be sold very low, or might exchange part or all of it for good improved property in Chicago or vicinity. Address

B. J. KENDALL,
601 Masonic Temple, CHICAGO, ILL.

IF YOU WANT ANYTHING

IN THE LINE OF
PRINTING, BINDING, STATIONERY, BLANKS,

Township, School District or City Supplies,
KANSAS LAW BOOKS, ETC.,

WRITE TO
CRANE & CO.

912 Kansas Ave., Topeka, Kas.

Send for Catalogue if interested.

DISSTON'S

It will pay you to buy a Saw with "DISSTON" on it. It will hold the set longer, and do more work without filing than other saws, thereby saving in labor and cost of files. They are made of the best quality crucible cast steel, and are
FULLY WARRANTED.
For Sale by all Dealers.
Send for Pamphlet or Saw Book, mailed free. **HENRY DISSTON & SONS, Philadelphia, Pa.**

You've Lost 1/2 Your Opportunity

For a Crop if you do not Subsoil this Season.

Subsoiling will secure a crop where other methods fail. The drouth of '94 makes subsoiling necessary where before it has been thought superfluous. Many farmers will

Subsoil in '95 or Starve in '96.

Don't buy a subsoil plow of inferior make when you can have the best at about the same price.

Iron King is Best. For sale by one dealer in a town. Write us for illustrated circular, **DEERE & CO. MOLINE, ILL.**

Some NEW THINGS IN AND ON
CULTIVATORS
AND CONQUEST HORSE-LIFT BALANCE-FRAME CULTIVATORS
5 DIFFERENT KINDS OF CULTIVATING GANGS CAN BE PUT ON ONE FRAME
Draft of the Team raises the Gangs.
Frame is BALANCED whether at work or on the Road.
Are furnished when ordered. They attach behind the shovels & disks.
They level and Pulverize the Ground perfectly.
Ask Your Dealer for descriptive circulars. If he has none, send to us.
DAVID BRADLEY MFG. CO. CHICAGO, ILL.

THE UNION STOCK YARDS, CHICAGO.

(Consolidated in 1865.) The largest live stock market in the world. The center of the business system from which the food products and manufactures of every department of the live stock industry is distributed.

Accommodating capacity: 50,000 cattle, 200,000 hogs, 30,000 sheep, 5,000 horses. The entire railway system of Middle and Western America center here, rendering the Union Stock Yards the most accessible point in the country. The capacity of the yards, the facilities for unloading, feeding and reshipping are unlimited. Packing houses located here, together with a large bank capital and some one hundred different commission firms, who have had years of experience in the business also an army of Eastern buyers, insure this to be the best market in the whole country. This is strictly a cash market. Each shipper or owner is furnished with a separate yard or pen for the safe keeping, feeding and watering of his stock, with but one charge of yardage during the entire time his stock remains on the market. Buyers from all parts of the country are continually in this market for the purchase of stock cattle, stock hogs and sheep. Shipper should ask commission firms for direct information concerning Chicago markets.

The Greatest Horse Market in America, the Dexter Park Horse Exchange.
N. THAYER, President. **JOHN B. SHERMAN,** Vice President and Gen. Manager. **J. C. DENISON,** Secretary and Treasurer.
WALTER DOUGHTY, Ass't Secretary and Ass't Treasurer. **JAS. H. ASHBY,** General Superintendent. **D. G. GRAY,** Ass't Superintendent.

The Kansas City Stock Yards

are the most complete and commodious in the West, and second largest in the world! The entire railroad system of the West and Southwest centering at Kansas City has direct rail connection with these yards, with ample facilities for receiving and reshipping stock.

	Cattle and calves.	Hogs.	Sheep.	Horses and mules.	Cars.
Official Receipts, 1894.....	1,772,545	2,547,077	589,555	44,237	107,494
Slaughtered in Kansas City.....	859,640	2,050,784	387,570		
Sold to feeders.....	308,151	11,496	69,516		
Sold to shippers.....	400,955	468,616	45,730		
Total sold in Kansas City, 1894.....	1,677,792	2,530,896	503,116	28,903	

CHARGES: YARDAGE, Cattle, 25 cents per head; Hogs, 8 cents per head; Sheep, 5 cents per head. HAY, \$1 per 100 lbs.; BRAN, \$1 per 100 lbs.; CORN, \$1 per bushel.

NO YARDAGE CHARGED UNLESS THE STOCK IS SOLD OR WEIGHED.

C. F. MORSE, General Manager. **E. E. RICHARDSON,** Secretary and Treasurer. **H. P. CHILD,** Assistant Gen. Manager. **EUGENE RUST,** Gen. Superintendent.

CHEAP IRRIGATED LAND

—IN THE—
GREAT SAN LUIS VALLEY,
—ON—

Easy Terms.
CERTAINTY OF CROPS.

Large Yields of Wheat, Oats, Barley, Potatoes, Alfalfa, Peas, Etc.
ENORMOUS YIELDS OF VEGETABLES!

Good Home Markets, Owing to the Nearness to the Mining Camps.
ARTESIAN WATER EASILY OBTAINED.

For further description and prices of land address **JOHN RICHEY, McPherson, Kas., SIMON MOTZ, Hays City, Kas., or S. M. SCOTT, Emporia, Kas., Agents for Colorado Land and Emigration Company.** These lands are located on the D. & R. G. railroad.

ARTESIAN WELL AT ALAMOSA. CHEAP: LUMBER: AND: FUEL!

Last year we commenced an elaborate plan of advertising, but before we were half through, **OUR ADVERTISING WAS DISAPPEARED.** Why? Because **WE WERE OVERWHELMED WITH BUSINESS.** There was but one thing to do without the advertising and devote every energy to filling the orders with which we were flooded. This we did, and handled with reasonable promptness a most unprecedented year's business. **WITH ENLARGED FACTORIES, INCREASED FACILITIES, AND TWENTY BRANCH HOUSES FROM WHICH TO DISTRIBUTE OUR GOODS, WE CAN NOW CARE FOR ALL WHO COME.** Last year we could not reduce prices because we were compelled in some way to limit the demand for Aermotor goods. We would have been satisfied with lower prices, but why create a demand which we could not supply? We have made the heaviest purchases of steel and material bought in America this year, and at unprecedented prices, and have made terms to dealers which enable them to make unprecedented prices. In quality, character, variety, finish, and accessibility to full stock of goods and repairs, we are without competitors. In our plan of advertising last year, we proposed to furnish a feed cutter under certain conditions for \$15. For reasons stated above we did not complete the advertising, and the feed cutter was not put out. We now propose to make amends in the following manner: We will announce in this paper our **NEW ALL-STEEL VERY SUPERIOR FEED CUTTER, WORTH**

\$40 at \$10

cash with order, f. o. b. Chicago. Only one to one person, he to furnish addresses of ten neighbors who ought to have something in our line. Cut, description and full information regarding it will appear soon.

We especially desire to caution you against paying excessive prices for windmill outfits. The temptation on the part of the dealer to overcharge is great. \$10 added to price to \$20 clear dealer. To be sure proper price and art—your needs and you are, and always have been. Because of the prodigious output of our factories we are enabled to have special tools for each piece, and on it to merely picking up the material and laying it on the material which we mention. We have been making up in the form of plating windmills, towers (tilting and fixed), tanks, pumps, etc., to such an extent has this become true, the price of our goods (and the price of our business) is such that **FOUR LARGE WINDMILL CONCRETE ARE BUYING THEIR TOWERS OF US THIS YEAR. THEY DO IT BECAUSE WE MAKE THE ONLY ABSOLUTELY RELIABLE AND SAFE TOWER; BECAUSE THEY CAN BUY OF US CHEAPER THAN THEY CAN BUILD; BECAUSE WE MAKE THEM BE PAID TO GALVANIZE EVERYTHING AFTER IT IS COMPLETED, AND COMPLETE EVERYTHING EXACTLY RIGHT.** These concerns are wise, for even though they may not furnish the best of wheels, the wheel will have the best of supports. Send to us your name and address and those of your neighbors who may need something in our line, and they will do them a good turn. The Aermotor Co. is one of the most successful business enterprises which has been launched in recent times. In succeeding advertisements will be discussed and made clear the lines on which that success has been worked out. It was done by a farmer's boy. A careful following of these advertisements may suggest to some other farmer's boy a career.

Aermotor Co., 12th, Rockwell & Fillmore Sts., Chicago.

HAVE YOU HEARD—
How cheap you can buy the **CURRIE GALVANIZED STEEL WINDMILL?** If not, write for price. It will astonish you.
CURRIE WINDMILL CO.,
Manhattan, Kansas.

The Kirkwood Steel Wind Engine

has been in use since 1882. It is the pioneer steel mill. It has beauty, strength, durability, power; it is **THE BEST,** hence the mill for you to buy. Thousands have them! Our Steel Towers have four angle steel corner posts, substantial steel girts and braces—lot fence wire. They are light, strong, simple in construction, much cheaper than wood and will last a lifetime. Our mills and towers are **ALL STEEL** and fully guaranteed.

Write for prices and circulars. Address, mentioning this paper,

KIRKWOOD WIND ENGINE CO.,
Arkansas City, Kas.

THE DANDY STEEL MILL AND STEEL TOWER.
Thoroughly galvanized after completion. Over 25000 in use. Has stood the severe wind storms for five years and demonstrated its ability to stand them for years to come. Made of the best cold rolled steel and **FULLY GUARANTEED** When furnished with graphite boxes they need no oil. We also make a complete line of Power Mills, Grinders, Tanks, Shellers, Pumps, Etc.

Challenge Wind Mill & Feed Mill Co., Batavia, Illinois.

Write for Prices.

WINGER'S STEEL WIND MILL
Mechanically constructed and simple. Awarded World's Fair Diploma and Medal. Grandest of Steel Tanks Flour Mills, Regulators and Grinders.

"Steel"

Galvanized Tanks, Round, Oblong, and Square.

WINGER'S PUMPING WIND MILL FEED GRINDER

"A MONEY MAKER AND SAVER."

A double Grinder with three burrs. Center draft. Can be attached to any make of pumping wind mill. **E. B. WINGER,**
532 Kenwood Terrace, Chicago, Ill.

The FARMER has made arrangements by which we are enabled to make a number of good Premium Offers for new subscribers. Those interested in raising a CLUB should send us postal card for Premium Supplement.

LIGHTNING WELL MACHINERY Works.
LARGEST. All kinds of tools. Fortune for the driller by using our Adamantine process, can take a core. Perfect Economical Artesian Pumping Rigs to work by Steam, Air, etc. Let us help you. **THE AMERICAN WELL WORKS,** Aurora, Ill.; Chicago, Ill.; Dallas, Tex.

WELL MACHINERY

Illustrated catalogue showing WELL AUGERS, ROCK DRILLS, HYDRAULIC AND JETTING MACHINERY, etc. SENT FREE. Have been tested and all warranted.

SIoux CITY ENGINE & IRON WORKS,
(Successors to Peck Mfg. Co.)
SIoux CITY, IOWA.
1217 Union Ave., Kansas City, Mo.

JONES' PIG FORCEPS.



By mail, postpaid, \$1.50. Agents wanted. Send for circular and terms. **D. M. Jones, Wichita, Kas.**

PERINE'S NEW SUBSOIL PLOW

Specially designed to break up the hardest subsoil. It can be run 2 feet deep which lets in all the rain, storing it up for all crops, which insures against drouth and standing water on the surface.



For further particulars address, **PERINE'S PLOW WORKS, Topeka, Kas.**

HOW TO FARM WITHOUT RAIN.

GOOD CROPS IN SPITE OF DRY WEATHER.

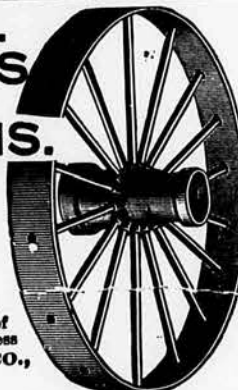


FOR INFORMATION REGARDING USE AND RESULTS ADDRESS

ROCK ISLAND IMPLEMENT CO.,
Kansas City, Mo.

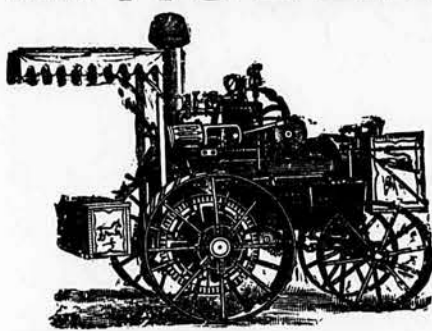
METAL WHEELS for your WAGONS.

Any size you want, 20 to 66 in. high. Tires 1 to 8 in. wide—hubs to fit any axle. Saves cost many times in a season to have set of low wheels to fit your wagon for hauling grain, fodder, manure, hogs, &c. No resetting of tires. Cost free. Address **EMPIRE MFG. CO., Quincy, Ill.**



Makes a clean sweep of Two Acres at a sitting. A man, a boy and a horse can operate it. No heavy chains or rods to handle. The crop on a few acres the first year will pay for the Machine. Send postal card for illustrated Catalogue, giving price, terms, testimonials, also full information concerning our Iron Giant Grub and Stump Machine, Two Horse Hawkeye and other appliances for clearing timber land. Address **MILNE MANUFACTURING CO., 620 8th St., Monmouth, Ill.** Sunnyvale Shetland Pony Farm. For catalogue address Milne Bros. at above office and number. Breeders of Pure Shetland Ponies.

THE NEW HUBER



WINNER in each of the four, Engine contest at the World's Fair:
FIRST TEST—Economy of fuel.
SECOND TEST—Speed with light load.
THIRD TEST—Speed with heavy load.
FOURTH TEST—Trial run through deep sand.

NEW HUBER SEPARATOR is the simplest and best cleaner for all kinds of grain and always gives satisfaction.

Best Outfit on Earth!

For prices and catalogue, write

G. J. FERGUSON,
1217-19 Union Ave., KANSAS CITY, MO.

CLAIRETTE SOAP.



Love Lightens Labor

so does

CLAIRETTE SOAP.

This great cleaner comes to woman's aid on wash-day and every day. Makes her work a matter of love instead of drudgery. Try it. Sold everywhere.

Made only by

The N. K. Fairbank Company,
St. Louis.

DINNER IS NOW READY.



For THE BEST COOKER Made,

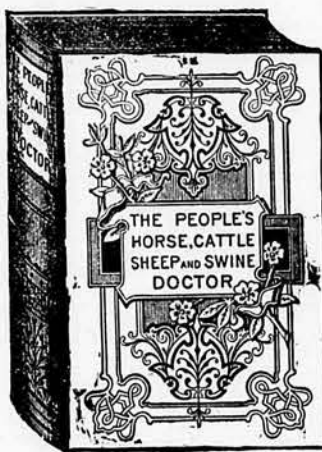
Grinders, Machinery, Wagons, Buggies, Harness, Fencing and farmers' supplies of every description write us.

If we can't save you money we need not trade.

MACLEAN & WINEGAR
Corner Eleventh and Santa Fe Sts., Kansas City, Mo.



THE PEOPLE'S



**HORSE,
CATTLE,
SHEEP
and
SWINE**

Containing in four parts clear and concise descriptions of the diseases of the respective animals, with the exact doses of medicine for each.

A book on *diseases of domestic animals*, which should present a description of each disease and name, the proper medicines for treatment in such condensed form as to be *within the means of everybody*, has long been recognized as a desideratum. This work covers the ground completely. The book embodies the *best practice* of the ablest Veterinarians in this country and Europe, and the information is arranged so as to be *easily accessible*—an important consideration. Each disease is first described, then follows the *symptoms* by which it may be recognized, and lastly is given the *proper remedies*. The different medicines employed in all diseases are described and the doses required are given. The book is copiously *illustrated*, including engravings showing the shapes of horses' teeth at different ages. An elaborate index is a valuable feature.

It is printed in clear, good type on fine paper, and is handsomely bound in cloth, with ink side stamp and gold back, and is a book which every person ought to possess, who has anything to do with the care of animals.

It will be sent to any address—postpaid—on receipt of the price, **One Dollar**, or on the remarkably liberal terms stated above.

DOCTOR.



Address all orders to

KANSAS FARMER CO., Topeka. Special: Send \$1.50 for above Book and KANSAS FARMER 1 year.

PILES, FISTULA,

And all Diseases of the Rectum cured by Drs. **THORNTON & MINOR**, Kansas City, Mo. without knife, ligature or caustics—no fee accepted 'till patient is cured. Other Specialties: Diseases of the Skin and Women. Ask for our circulars. They contain testimony from leading business men and high officials—tell how to avoid quacks, sharpers and doctors who ask for fees or a note in advance. OFFICES: 30-31-32 Bunker Building, 100 West Ninth Street.

WHAT YOU DON'T KNOW ABOUT

California

is told in a beautifully illustrated book entitled "To California and Back." Ask G. T. Nicholson, G. P. A., Santa Fe Route, Topeka, Kas., for a copy. It is free.

Personally conducted weekly parties leave Chicago every Saturday evening, and Kansas City every Sunday noon, for Pacific Coast, via Santa Fe Route. Special agents and porters in attendance. Pullman tourist sleepers are used, furnished with all conveniences for comfortable traveling. Second-class tickets honored.

You have been planning that California trip for several years. Why not go now, and take advantage of cheap rates? Santa Fe Route is positively the only line with Pullman tourist and palace sleepers, Chicago and Kansas City to San Francisco and Los Angeles, daily without change.

FLORIDA.

Through Sleeping Cars Kansas City to Jacksonville.

Commencing Sunday, November 18 1894, the **MEMPHIS ROUTE**, Kansas City, Fort Scott & Memphis Railroad, will inaugurate a through sleeping car line, Kansas City to Jacksonville, via Memphis, Birmingham, Atlanta and Macon, arriving at Jacksonville at 9:45 a. m., making close connections there for all points in South Florida. The cars in this line will be strictly first-class in all their appointments and will run every day in the week, leaving Kansas City at 10:30 a. m.

For rates and full information, address **J. E. LOCKWOOD, G. P. A., Kansas City, Mo.**

THE GREAT ROCK ISLAND RY.

THE FAVORITE ROUTE TO THE East, West, North, South.

Through cars to Chicago, St. Louis, Colorado, Texas and California.

Half Rates to Texas Points! LOW RATES TO ALL POINTS.

Especially California, Texas and Southeastern Points. If you are going to the Midwinter Fair at San Francisco, if you are going to Texas, if you are going East on business or pleasure—in fact, if you intend to do any traveling, be sure to consult one of the agents of the

Great Rock Island System

JOHN SEBASTIAN,
General Ticket and Passenger Agent, CHICAGO.

T. J. ANDERSON,
Assistant Gen'l Ticket and Pass. Agent, TOPEKA.

H. O. GARVEY,
City Ticket and Passenger Agent,
601 Kansas Ave., TOPEKA, KAS.



SOLID THROUGH TRAINS FROM

KANSAS CITY & ST. JOSEPH

—TO—

ST. LOUIS, CHICAGO, OMAHA, PEORIA, ST. PAUL AND MINNEAPOLIS

WITH Dining Cars

Vestibuled Drawing Room Sleeping Car Reclining Chair Cars (Seats Free).

ONLY ONE CHANGE OF CARS TO THE ATLANTIC COAST

THE BEST LINE FOR NEW YORK, BOSTON, Baltimore, Washington, Philadelphia, Cincinnati, Niagara Falls, Pittsburgh, AND EASTERN POINTS.

For full information, address

H. O. ORR,
Asst Gen'l Passenger Agent, Kansas City, Mo

BARRED PLYMOUTH ROCKS EXCLUSIVELY.
All high-scoring birds. Have bred Plymouth Rocks for thirteen years. Yard headed by cockerels scoring from 92½ to 94 points, including a cock sired by the World's Fair winner, scoring 94 points by Pierce, and a 93½ point cock from I. K. Felch's yards. Have shipped eggs to all parts of the United States. Eggs \$1 per thirteen or \$2 for thirty. I guarantee satisfaction. Send for circular.
D. B. CHERRY, Knoxville, Marion Co., Iowa.

CHERRY + ORCHARD + HERD

Has for Sale Now **Sows in Pig and Sows with Litters**

That are rich in the blood of Chief Tecumseh 2d 9115, One Price, Free Trade 4420 S. and other high-class boars. The youngsters here now and to come are accredited to Corwin White Face 9924 and Wren's Medium 12387. A grand lot of fall pigs by Royal Short Stop 10887. Mrs. Wren offers **PLYMOUTH ROCK COCKERELS** at \$1 each; eggs at \$1 per thirteen. Also choice **M. B. TURKEY** eggs at \$3 per thirteen. Write, or better, come and see stock.

W. H. WREN, Marion, Marion Co., Kansas.

BREEDERS' DIRECTORY.

(Continued from page 1.)

SWINE.

CLOVER LAWN HERD POLAND-CHINAS.
Young sows and boars and spring pigs for sale. Prices reasonable. Stock first-class.
W. N. D. BIRD, Emporia, Kas.

MARTIN MEISENHEIMER, Registered Poland-China Swine.
Hawatha, Brown Co., Kas.

20 brood sows, headed by Tecumseh Free Trade 10783 S., assisted by a son of Benton's Last 8827 S. Some of best females bred to Butler's Darkness, Black U. S. Nemo (Vol. 9) and Victor M. Jr. (Vol. 9) Correspondence and inspection invited.

Evergreen Herd Poland-Chinas.

J. F. & P. C. Winterscheidt, Horton, Brown Co., Kas.
150 in herd. Boars in service: Admiral Chip 7919 S., George Wilkes Jr. 11898 S., Corbett 11859 S. and Winterscheidt's Victor (Vol. 9). 45 sows bred for coming pig crop. 10 young boars and 40 gilts ready to go. Write or come.

BLACK U. S. AND WILKES

300 head, registered or eligible. Boars in service, Modest Duke 12653 S., Wilkes Tecumseh 11760 A., White Face 12681 O. and Osgood Dandy Wilkes 12709 S. 60 young boars; 80 gilts.
J. R. CAMPBELL & SON, Avilla, Jasper Co., Mo.

J. R. KILLOUGH & SONS,

Richmond, Kansas, Breeders of **POLAND-CHINA SWINE**
The very best strains. Nothing but first-class stock will be shipped to any. Come and see us or write.

TOWER HILL HERD PEDIGREED POLAND-CHINAS.

B. R. ADAMSON, Prop., Ft. Scott, Kas.
25 highly-bred brood sows of best strains, headed by Black Dandy 8809 S., Black Stop 10550 S. and Joker Wilkes 12682 S. About 100 selected individuals sold this season. 25 youngsters coming on now for choice. Write or come and visit my herd.

P. A. PEARSON

Kinsley, Kansas, Breeder of **POLAND-CHINA SWINE**
All ages for sale. Herd headed by Dandy Jim Jr. and Royalty Medium, a son of Free Trade.

SUNNY SLOPE FARM, Emporia, Kas.

200 head of Poland-Chinas, headed by LONGFELLOW 29885 O., who has the best Columbian record of any ever won at the Mississippi. 50 head of Poland-Chinas sired by Longfellow, 29885 O. to the following noted boars: J. H. Sanders, Jr., by J. H. Sanders 27219 O., dam Graceful F. 45408 O.; Hadley, Jr., sired by Hadley 27505 O., dam Samboline 8th 59952 O.; Sir Charles Corwin, by Latest Fashion 27396 O., dam Josie Wilkes 1st 69198 O. Combining the blood of Black U. S., Wilkes and Tecumseh, combining the leading and show combination and fashionable blood now sought for by breeders.
100 Berkshires, headed by the well-known boar, MAJOR LEE 81139. We have twenty-five gilts, bred from him, to General Lee, of Gentry breeding, and also to Royal Peerless the Great.
200 head of fashionably-bred Herefords.
Why not come to the fountain-head for a brood sow? Call on or address
H. L. LEIBFRIED, Manager.

BREEDERS' DIRECTORY--CONTINUED.

D. W. EVANS' HERD REGISTERED POLAND-CHINAS.

FAIRVIEW, BROWN CO., KAS.
250 head headed by Swi Tecumseh 11929 S., by L's Tecumseh 11413 S., and Billy Wilkes 9349 S., by George Wilkes 5950 S. A public clearance sale on Thursday, February 14, 1896, of 75 sows bred to these and other noted boars. Inspection invited.

R. S. COOK

Wichita, Kas., Breeder of **Poland - Chinas.**
Won seven prizes at World's Fair—more than any single breeder west of Ohio.

DOGS.

HIGHLAND KENNELS, TOPEKA, KAS.—Great Danes and Fox Terriers. The first prize and sweepstakes winner, Great Dane King William, in stud. Dogs boarded and treated for all diseases; also, remedies by mail. Correspondence solicited.

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IMPORTED AND REGISTERED

Percheron and English Shire STALLIONS.

Also Standard Trotting Horses.

Or will exchange for clear land in northeastern Kansas and northwestern Missouri or trade for young cattle.

Will have a few good stallions to farm out for season of 1895 to responsible farmers' clubs at a low price for the season's service.

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ARTICHOKES \$1 per bushel; five bushels \$4. **FRANK CURYEA & CO.** Kansas City, Mo.

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Cane and Millet Seeds, Kafir Corn and Jerusalem Corn. Seed Wheat and Oats. All crops of 1894. Write for "How to Sow Alfalfa," and prices on seeds. Garden City, Kansas.

SEEDS T. LEE ADAMS,

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Our Specialties: Seed Corn, Tree Seeds, Onion Seeds and Sets, Alfalfa, Salsoline, Lathyrus Silvestris, Sandvetches, Spurry, Kafir and Jerusalem Corn, and other new forage plants for dry and arid countries. **NEW CATALOGUE MAILED FREE ON APPLICATION.**

F. BARTEDES & CO., Lawrence, Kas.

THE STRAY LIST.

FOR WEEK ENDING MARCH 13, 1895.

Labette county—J. F. Thompson, clerk.
MARE—Taken up by Geo. Shumaker, in Hackberry tp., February 4, 1895, one dark bay mare, fifteen and one-half hands high, no marks or brands visible; valued at \$6.
COLT—By same, one light bay gelding, 3 years old, under ordinary size, no marks or brands visible; valued at \$12.
COLT—By same, one light bay gelding, 2 years old, under ordinary size, left hind foot white; valued at \$7.

Sumner county—Chas. Sadler, clerk.

HORSE—Taken up by E. A. Broek, in Greene tp., P. O. Cleardale, February 1, 1895, one light bay horse, sixteen and one-half hands high, blazed face, both hind legs white to hocks; valued at \$10.

Rooks county—Chas. Vanderlip, clerk.

MARE—Taken up by W. M. Lewin, in Belmont tp., January 9, 1895, one bay mare, about thirteen hands high, weight about 700 pounds, appears to be 3 years old the coming spring, small white spot in forehead; valued at \$10.

MARE—By same, one black mare, about thirteen hands high, weight about 700 pounds, appears to be 3 years old the coming spring, small white spot in forehead, some white on both hind feet; valued at \$10.

FOR WEEK ENDING MARCH 20, 1895.

Bourbon county—G. H. Requa, clerk.

COW—Taken up by Jacob Dye, one and a half miles southwest of Godfrey, in Drywood tp., one red cow, about 5 years old, white spot in forehead, white spots in flank and hind feet white, short stubby horns; valued at \$15.

FOR WEEK ENDING MARCH 27, 1895.

Phillips county—I. D. Thornton, clerk.

TWO PONIES—Taken up by J. Den Hollander, in Beaver tp., March 8, 1895, two bay pony mares, about fifteen hands high, each has white strip in forehead and white hind feet from ankles down; valued at \$5 each.

FINANCIAL AGENT.

A chattel loan company will open an office in one or two good towns (where there is a demand for thirty-day loans) to make chattel loans. Applicant must have thorough knowledge of values and first-class references. Enclose stamped envelope. Address 502 Hall Building, Kansas City, Mo.

ALFALFA SEED.

For new crop ALFALFA seed, write **LAWRENCE & REED, Garden City, Kas.**

ONLY 10% ABOVE ACTUAL
We are headquarters for BABY CARRIAGES and SEWING MACHINES. \$3 buys a strong, serviceable, Baby Carriage, other styles ranging in price up to \$25.00, fully warranted for 3 years. Shipped on 10 days trial, freight paid, no money in advance. Read and Italian Chaires from \$1.60 up. We save you all middlemen's profits, and ship direct from factory at only 10 per cent. above actual cost. Highest references as to our financial responsibility. Call on and write TO-DAY for our handsome catalogue. Address: **OXFORD BROS. CO., Furniture Dept., 715-717 Wabash Av., Chicago**

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As a result business is "picking up" wonderfully and prices are looking better in all lines. In Farm Property there will be no exception. Prices that now range are exceeding low—they are bound to advance, and lucky is he who gets a farm in this section of Kansas between this and spring. I have hundreds of way down bargains. First come, first served. You can better yourself now and have money left for other use. Write me now or come and see. Car fare refunded to all purchasers. Address **WALTER LATIMER, Garnett, Kansas.**

Farmers, Spray Your Sows

For fall fattening. Also your Nannies, Ewes and Gilt Dogs, with **Howley's Spaying Mixture.** Easily used, quick, absolutely certain and safe. Price, \$3 per bottle; \$2 half bottle. One bottle sprays one hundred head. Write for testimonials and particulars.

THE HOWSLEY SPAYING CO., Kansas City, Mo., or New Orleans, La.

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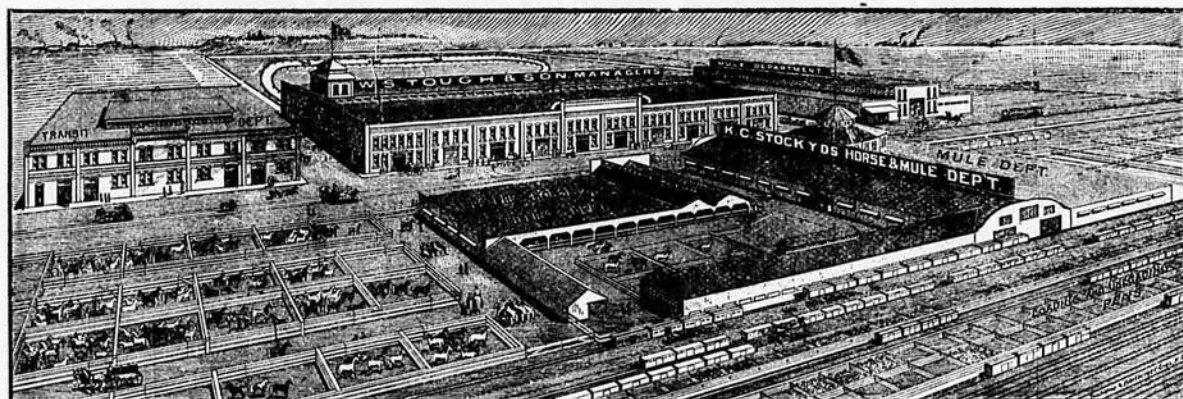
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PRIVATE SALES EVERY DAY. All classes of horses and mules find ready sale.

Farmers, Ship Horses to market in cars with your cattle and hogs and get full market value.

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