

KANSAS FARMER

Volume XLII. Number 16

TOPEKA, KANSAS, APRIL 21, 1904.

Established 1863. \$1 a Year

KANSAS FARMER.

Established in 1863.

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

E. B. COWGILL.....President
J. B. MOAFFE.....Vice President
D. C. NELLIS.....Secretary and Treasurer

SUBSCRIPTION PRICE: \$1.00 A YEAR

E. B. COWGILL.....Editor
I. D. GRAY.....Associate Editor
H. A. HEATH.....Advertising Manager

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



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COBURN RESIGNS EXPOSITION WORK.

The fact that upon the advice, rather, the command of his physicians, Hon. F. D. Coburn has resigned the position of chief of the Live-Stock Division of the St. Louis Exposition will be regretted by every stockman in the country.

It was with reluctance that Mr. Coburn assumed charge of the great work of creating an unparalleled exposition of live stock. His plans have been laid carefully and well and have provided for the equitable distribution of \$280,000 in something like 16,000 graduated prizes, conserving the interests of every breed and comprehending

every useful domesticated animal. The initiatory work has been wrought for a universal live-stock show on a scale never before dreamed of. The sum named to be paid in prizes will, under the stimulus of Mr. Coburn's suggestion, be augmented by many thousands of dollars offered as special prizes by foreign governments, State commissions, breeders' organizations and others.

This is the only division of the great show in which cash prizes are offered for exhibits. Doubtless this fact will stimulate the stockmen of this and other countries to make the realization of the Exposition commensurate with the liberality of the plans though there will be much disappointment at the inability of Mr. Coburn to remain at his post and personally welcome his friends, the stockmen of the world, to the Exposition. Possibly the desire of exhibitors to greet Mr. Coburn as chief may be in a measure gratified on account of the wise action of the Exposition management in making him honorary chief.

The labor of putting into execution the plans already made will devolve upon the able assistant, Col. Chas. F. Mills, as acting chief. Colonel Mills is thoroughly acquainted with the work, and has had long experience in such service.

As soon as he shall have sufficiently recovered to gain the permission of his physicians, Mr. Coburn will resume his old place as the active head of the Kansas State Board of Agriculture. It is a notable fact that the peculiar efficiency of the work of this board under Mr. Coburn's personal attention has been maintained during his absence by the able assistant secretary, Mr. Jacob Mohler. Any other State would deem itself fortunate to secure the services of one man of this Kansas brand. However, in having two, this State does not feel overstocked. Mr. Coburn will be warmly welcomed to his old seat in the State house.

DENATURALIZED ALCOHOL.

The difficulty of making, by law, artificial conditions affecting material interests and making those conditions such as shall produce no hardships is manifested in the many attempts to improve our laws. A case in point is presented in a bill before Congress "To provide for untaxed denaturalized alcohol for industrial purposes."

Denaturalized alcohol is explained to be alcohol which has been rendered unfit for a beverage by the addition of sulfuric ether or some other substance.

The argument is made that many processes of manufacture in which alcohol is used are by the tax rendered so expensive as to make it impossible to carry them on in this country in competition with the manufactures of other countries where alcohol costs less. It is realized that it would be futile to ask for any lowering of the tax on alcoholic beverages, but it is held that the purposes of the law would not suffer if denaturalized alcohol were excepted from this tax.

The claim is also made that, untaxed, alcohol would take the place of gasoline in the production of power, heat,

and light, and that this enlarged use would cause a greater demand for corn and other farm products used in the manufacture of alcohol.

If the denaturalized stuff can be made so vile that nobody will drink it, there appears to be no good reason for continuing the tax, while there are many in favor of abolishing such tax.

HERD LAW.

EDITOR KANSAS FARMER:—If a man takes up stock found trespassing on his lands, can he demand, say \$1, or any other sum per head, for his trouble and damages as well as for trespass?

Can a man hold said stock till he gets his demands? If not, what is he required by law to do with stock?

Please give an exact version of the law so a farmer may understand it and proceed in a lawful manner to make careless neighbors keep their stock off his lands.

Ellsworth County. SUBSCRIBER.

In a county where the herd-law is not in effect, lands are presumed to be fenced so as to protect crops from damage by stock. The Board of County Commissioners of any county in Kansas may order that the herd-law go into operation in their county. If they have issued such order in the manner provided by the statutes, the herd-law is in operation in their county. Under this law our correspondent's questions may be answered as follows:

No. The person suffering the trespass may take up the trespassing stock and have a lien thereon for the full amount of all damages committed by them upon the property of said person from the time of said commission of said injury, and may take the same into custody until all such damages are paid; provided, that he shall not retain the animals for more than five days without commencing action against the owner for such damages. Further, any person may take into custody animals which are about to commit a trespass upon his premises and may retain possession of them until all reasonable charges for keeping the animals are paid; he must notify the owner of the animals within forty-eight hours. If the owner be not known or can not be found, then the person taking up the animals may proceed as if the animals were strays.

The above answers both inquiries. The law is very plain and may be found in Chapter 138 of the statutes of 1897.

TELEPHONE INTERFERENCE.

EDITOR KANSAS FARMER:—Can you give me the law concerning the rights of telephone companies where they have a line built? Can they keep other companies out of an incorporated town or city by franchise? Will their claim hold good that they have undisputed right all along their line and from the ground up to four feet above their top wires?

We are an independent farmer's line eight miles in length, and in getting into Mayetta we have to cross D. K. Rhinehardt's line twice; and as we do not wish to go in on his switch-board at \$6 per year switch-fees, he is trying

to keep us out of corporation limits, and claims we can not cross his line unless we go four feet above it.

Jackson County. W. H. DAVIS.

There is a good deal of contention, just now, in the courts and elsewhere, about rights of telephone companies. A new line must not be so constructed as to electrically interfere with the operation of one already established. A distance of three feet is found to be safe. The new line may pass either above or below the old one, provided that in passing below it must not be placed so low as to interfere with the use of the highway or other land below the wire.

The fact that the old line was built under a franchise from the city council does not prevent the same or a succeeding city council from granting a like franchise for this new line. If the business men of the city are alive to their interests, they will see to it that every telephone line that wants to come into town is granted authority to come. It means goodwill and trade for the town.

Crop Reports and the Markets.

EDITOR KANSAS FARMER:—We have only a fair prospect for a wheat crop, taking our township over. Much of the wheat after it came up last fall had a weak, unthrifty look, and a good deal of it was thin on the ground; it did not grow off right for some reason. A good many think this was caused by the miserably poor quality of the seed, as Mr. Mitchner, one of our leading grainmen, said he did not ship a single car of No. 2 wheat of last year's crop from this station, and he did not think any one else did. It has come out fairly well, but we do not look for a bumper crop this season; besides, the acreage was considerably reduced.

I am of the opinion that our crop in the State was over-estimated last year. It is in a manner all gone and the question is, what became of it? A large amount, as I understand it, is not accounted for, yet it is gone.

A few days ago I happened on to a drygoods-box convention of a few farmers, waiting for it to stop raining so they could go home. One of them said he did not believe that Kansas raised 92,000,000 bushels of wheat last year, as per estimate of our worthy Secretary, and that he did not believe it was for the best interest of our farmers for the Secretary to report those big yields of anything. And closed with, "Yes, you may call me an old fogey if you want to." Another farmer said:

"Oh, tut, tut, tut! What's the difference? The bulls and bears of the Chicago Board of Trade will find it out any way."

"Oh, yes," said the first, "there is a good deal of difference. A bull or a bear will talk the way he wants his trade to go and no one puts any confidence in what he says. But when Coburn says we are going to have 92,000,000 bushels of wheat, coming from such an authentic and reliable source, the bears rush into the wheat-pit to sell wheat and they keep selling until they stampede the bulls completely,

(Continued on page 44.)

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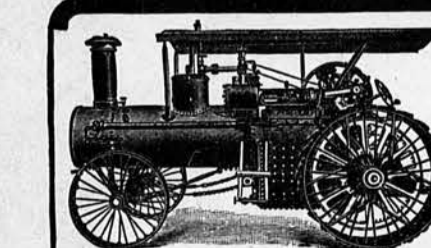
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Agricultural Matters.

How Dynamite the Stumps?
EDITOR KANSAS FARMER:—I hear that some one has cleaned a field of stumps with dynamite. Will some one please explain how it is done?
Atchison County. R. F. B.

Save the Run-off.

EDITOR KANSAS FARMER:—I promised to give you an account of some experiments in raising corn. My farm is rolling and as it washes a good deal, I thought I would list in a circle, to keep the water as well as the soil from being washed away. My experiment was a partial success. The field I tried is about square, 100 rods one way and a little less the other. It is on a ridge; the highest point is at the northwest corner and running to the southeast, sloping each way. No matter which way it was listed, the water would run down the furrows and out at the end. So, to save the water and the soil, I listed around the field, circling the corners, so the water had to follow the furrow until it came to a low place and ran over the ridges; there was very little waste last summer for we had no heavy, dashing rains. This piece of land was in corn the year before and dirt enough washed out to cover three-quarters of an acre two inches deep, and there were acres of it that did not make a bushel of corn to the acre; while if the water could have been kept on the land it would have made fifty bushels to the acre.

Another experiment was, to make the rows far enough apart to work two horses between the rows. I tried to list 5½ feet apart, so it could be worked after the corn was too high to straddle the rows. But as I did not plant it until May 20, the squirrels took it so badly that there was a very poor stand. I did not have the right kind of implements to do the work properly.

I expect to make my own implements this year and expect to hold the water where it falls. I also expect to put the rows the common distance apart, because when they are so wide, too much sunlight gets in. One trouble in raising corn here is that the soil is so fine that when it rains it runs together and becomes so smooth that the water runs off and leaves the ground slicky and whitish. It reflects the rays of the sun so it burns the grass. The effect is the same on the buffalo-grass. If we could plant something green between the rows to keep the soil cool it would be a great help.
S. C. SAWYER,
Decatur County. Proctor's Farm.

The Subsurface Packer.

I am a constant reader of the KANSAS FARMER and saw an article pertaining to the successful use of a subsurface packer. Would like to know of the experience of the college and how they use it and with what success. Which packer would you recommend, the Topeka Foundry Packer or the Campbell Packer? Also, can it be used for spring plowing successfully?
HENRY HOFFMAN,
Kingman County.

We make considerable use of the subsurface packer on new plowing in preparing the seed-bed for grains and grasses. We have both the Topeka Foundry packer and the Campbell packer. The Campbell packer is distinctly a subsurface packer and may be used simply for firming the bottom of the furrow slice on new-plowed land; used for this purpose the Campbell packer does first-class work.

The Topeka Foundry packer may be used either as a roller and pulverizer for the purpose of firming and fining the surface soil, or by taking off every other wheel and substituting a three-inch sleeve, which places the wheels six inches apart from center to center, it may be used as a subsurface packer, sufficient weight being added to cause the wheels to sink into the mellow soil. At this station we have not used the Topeka Foundry packer as a subsurface packer but only in the capacity of a roller or surface packer.

Used for this purpose it has proved to be a good implement for pulverizing the clods and firming the surface soil, leaving at the same time a covering of mellow soil to serve as a soil mulch. In this way its work is superior to that of the smoothing roller, which leaves the soil compact at the surface without any soil mulch. The Topeka Foundry packer can also be used for rolling ground after the seed is planted as well as in the preparation of the seed-bed and it can be used successfully on winter wheat, after the grain is up, in the fall or spring, in order to firm the soil and at the same time produce a mulch to conserve the soil moisture.

The subsurface packer, weighted and properly used on mellow soil, will do the work it is claimed to do, that is, that of firming the subsurface and re-establishing the capillary connection with the subsoil so that the moisture may be drawn up into the seed-bed, thus causing the more rapid decay of manure or vegetable matter plowed under, hastening the germination of the seed and giving a strong and vigorous start to the young plants.

We have no direct data upon the results or yields secured at this station by subsurface packing. While Professor Cottrell was here, he and Mr. Haney made some experiments in which they concluded that the subsurface packer conserved the soil moisture and kept the soil from blowing in a dry season. The packer has been used enough by farmers and at the experiment stations to show that it does the work claimed for it and that it is a practical tool to use on the farm. For the preparation of a proper seed-bed immediately after plowing for seeding grains and grasses, there is no implement that can do the work of the subsurface packer.

By means of the disk harrow and the common harrow a condition of the soil approaching that made by the subsurface packer, may be secured. The disks may be set straight and the harrow weighted to cause them to run deep but not to throw much earth. The disk should be followed with the common harrow in order to leave a fine surface mulch. Because of the nature of the work accomplished by the subsurface packer it is a hard-running implement and gets over the ground rather slowly, but wherever such treatment is needed the results secured are more than equal to the work required. The ground may be harrowed, however, very much faster than it can be subsurface packed and at about one-third the expense; and if the plowing be done several weeks or months before planting, the common harrow may be used instead of the subsurface packer, because the ground will usually settle sufficiently before seeding-time to produce a good, firm seed-bed and reestablish capillary connection with the subsoil below. I do not intend here to discourage the use of the subsurface packer, but simply suggest a method by which a condition of the soil similar to that given by the subsurface packer may be secured without its use. A. M. TENEYOK.

Alfalfa—Leaf-Spot.

I have been reading much in the KANSAS FARMER about your experiments with alfalfa. I have a field sowed two years ago this spring with a fairly good stand but it has never produced very much yet. It starts well in the spring and after cutting, but after it gets three or four inches high it loses its green color and turns yellowish and makes a splindling growth. Since you have written about the bacteria in the ground, I made an investigation and found but few of those tubercles that take the nitrogen out of the air and store it in the ground; in fact, I do not think that more than one plant out of twenty contained any. To be convinced, I went about fifteen miles east of here, where the alfalfa does well and looked for the tubercles and found lots of them. I took some of the soil home and scattered it on my field the best I knew how. Do you think that is what is lacking in my field or are the few that I found enough? How do you gather the soil from an old alfalfa field and how do you scatter it on the new field, and

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how much per acre? I also want to sow some alfalfa on practically the same kind of ground in a few days. Would you sow some soil with the seed or would you wait and see how the alfalfa does first? Would like to hear from you before I sow it.

Reno County. R. S. SCHROCH.

The fact that you found some tubercles on the roots of the alfalfa would indicate that the soil contained the bacteria and it is my opinion that the poor growth is likely due to some other cause rather than to the lack of alfalfa bacteria. The fact that the alfalfa starts well in the spring and after cutting, but later turns yellow and ceases to grow, would indicate that the plants are badly infected with the "leaf-spot," a fungus disease which attacks the leaves and appears to do most damage in a wet season. The disease is apt to be injurious on poorly drained lands. There was much complaint of this disease last season, especially from the eastern part of the State. The fields on the college farm were more or less affected.

About the only remedy which has given any benefit is frequent cutting. Just as soon as the leaves begin to turn yellow, even if the alfalfa has not made more than a few inches growth, cut it, rake it before the leaves drop off if possible and remove the crop from the field. In this way a large part of the fungus will be removed with the crop. It is also probable that your alfalfa will be benefited by disking it this spring before it has made much start or immediately after cutting the first crop. The roots of the alfalfa require air as well as moisture and if the soil is hard and compact at the surface the alfalfa will not thrive. In the disking experiments made at this station this spring I have concluded that the best work is done by weighting the harrow and running the disks rather straight and then cross-disking, following immediately with the smoothing harrow in order to break the clods and leave the ground level and with a fine soil mulch. Such treatment certainly gave the ground an excellent cultivation and very few of the alfalfa plants are destroyed.

In making your new seeding it might be well for you to spread a little of the infected soil from an old alfalfa-field over a part of the ground, in order to study the effect, but it would not seem necessary to treat the whole field in this way at the present time. In taking the infected soil from an old alfalfa-field we usually take only the first three or four inches of surface soil, choosing a spot in the field which received a little drainage from the ground surrounding it, and in a place where there is a good start of alfalfa. Make the infected soil fine by pulverizing it and scatter it over the ground by hand at the time of sowing the alfalfa, harrowing once after seeding to mix the infected soil with the soil of the field. Wherever this treatment has been given, a small amount of infected soil seems to be all that is needed, say about two hundred pounds per acre. On the old field the infected soil may be scattered after disking.

A. M. TENEyOK.

Renewing Worn-out Pasture.

Our pastures in this part of the State are failing more and more. We need some kind of grass-seed to sow to take the place of the wild grass that used to furnish such fine grazing. The old-time grasses that we used to raise in Ohio and Indiana do not seem to succeed here. What shall we sow?

GEO. W. RHODES.

Chautauqua County.

Such experiments as have been made in renewing the native prairie pastures have indicated that simple cultivation and manuring, at the same time giving the pasture a rest, has produced a renewed growth of the wild grasses and has often resulted in re-establishing a productive pasture. In such experiments when domestic grasses have been seeded they have generally been more or less replaced by the wild grasses. The method of cultivation is usually to disk the pasture thoroughly early in the spring, loosening the surface well and following the disk with the harrow in order

to level the ground and leave a good surface mulch. If good barn-yard manure can be applied, it will greatly assist in giving a start to the new growth of grass, but it will be necessary to keep the stock off of the pasture for one season. The weeds will start in places and it will be necessary to mow them in order to keep them from seeding and smothering out the young grass.

I think it advisable also to scatter a little seed of some of our domestic grasses after the pasture has been disked and harrowed and the soil is in condition to germinate the seed. In your part of the State, English blue-grass, Bromus inermis and red clover, with perhaps a little Kentucky blue-grass would make a good combination for renewing old pasture. It would not be necessary to sow as much seed per acre as would ordinarily be sown on old land, say about five pounds each of English blue-grass, Bromus inermis, and two pounds each of Kentucky blue-grass and clover would be right. The grass-seeds may be mixed together and sown broadcast by hand. The clover-seed should be sown separately. It is difficult to distribute so small an amount of seed over an acre by hand but by the use of the wheelbarrow seeder or by means of the grass-seeder attachment on many grain-drills, a small amount of clover-seed may be distributed over the ground. Have the ground well disked, level and in good condition before seeding and a light harrowing after seeding is all that is required to cover the seed. I think it quite essential to sow the clover. Seeding clover alone on an old pasture in this way and continuing the treatment every three or four years would keep the pasture productive. The ordinary prairie-grasses exhaust the soil and by continued pasturing without cultivation or manuring, the native grasses become unproductive and run out. Clover builds up the fertility of the soil by increasing the nitrogen supply, thus more pasture is produced, not only by the clover by itself, but the clover acts as a feeder to the other grasses, causing them to make a more vigorous and ranker growth.

A. M. TENEyOK.

Measuring Cane in the Stack.

I wish to know by what rule you measure cane in the stack; how many cubic feet do you allow for a ton?

Oklahoma. WM. FOSTER.

There is no rule for measuring cane in the stack. The number of cubic feet which it would take for a ton would vary largely, according to the cured condition of the cane. We stacked some cane last fall which had

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M. CAMPBELL FANNING MILL CO. LTD., Mrs. Chatham Incubators and Brooders. 242 Wesson Avenue, Detroit, Mich.

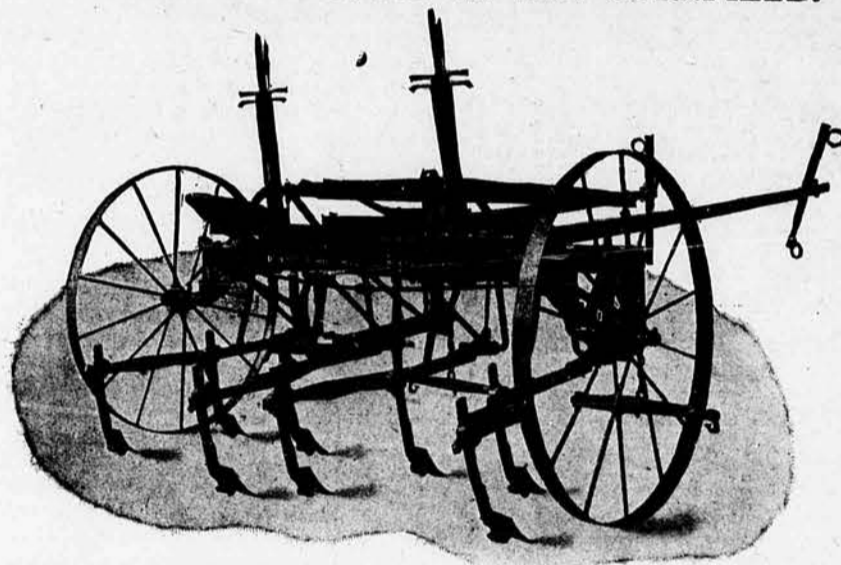
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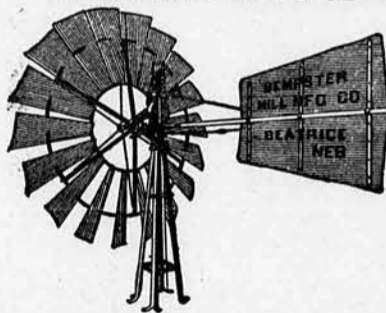
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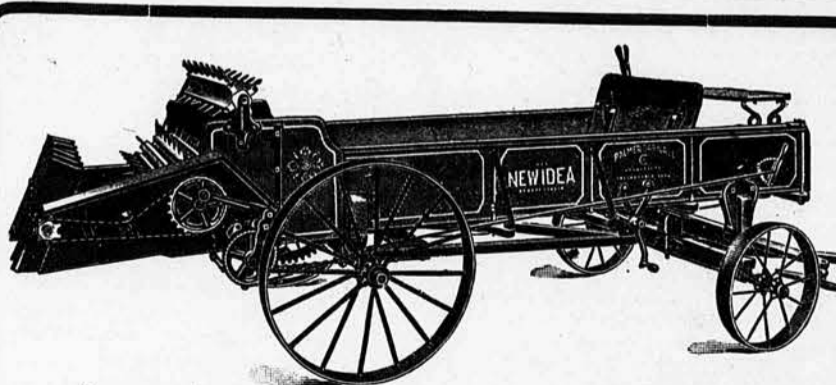


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60 per cent of water in it, while other samples had only 39 per cent. In measuring hay in the stack it is usual to allow about 422 cubic feet as a ton when the hay is well settled. Sometimes as low as 343 cubic feet are taken as a ton, depending upon how fully the hay is settled and the length of time it has been in the stack. Three hundred and forty-three cubic feet is a cube seven feet on a side. Four hundred and twenty-two cubic feet is a cube seven and one-half feet on a side. In measuring alfalfa in the stack, 422 cubic feet is the usual amount allowed per ton. I also observe an article in the KANSAS FARMER, December 3, in which I. L. Diesem, Finney County, says that he also uses this rule in measuring cane in the stack, that is, a cube of seven and one-half feet or 422 cubic feet. **A. M. TENBYCK.**

Horticulture.**Reclamation of Flood-Damaged Lands in the Kansas River Valley by Forest Planting.**

The flood of 1903 did great damage to much valuable land in the Kansas River Valley. The injured lands may be classed under the following four general heads:

- Sanded lands.
- Eroded lands.
- Eroded lands subsequently silted.
- Caving river banks.

Lands that were silted but not eroded are not classified as "injured," since it is believed that such lands were benefited rather than injured by the flood.

The following recommendations for the treatment of these lands are made with full knowledge of their former great value for agriculture, and with a keen realization of the extent of the damages wrought by the greatest calamity that ever visited this fertile valley.

SANDED LANDS.

At least 5,000 acres of fertile plowland were buried in coarse sand to such a depth as to be rendered worthless for agriculture for many years to come. This should receive the first attention, for the sands are likely to be shifted by the winds and deposited on land that is now fertile. In order to fix this sand, cottonwood-trees should be planted over its entire surface this spring (1904). The flood of 1903 caused millions of cottonwoods to germinate on fields that were too wet for cultivation. From these natural nurseries may be obtained all the seedlings needed. If the planting be delayed until another year, the seedlings will be too large to plant, and the sand will have been blown into ridges, so that the ground will not be in as good condition for planting as it is now.

The cottonwood seedlings on farm lands should be gathered when the ground is plowed for a spring crop. It may be that a boy riding the front of the carriage of a sulky plow can catch and pull out from the loosed soil the best specimens before they are turned under. Otherwise they must be taken from beside or behind the plow. When an armful has been collected, the roots of the trees should be buried in the fresh soil for protection until they can be planted. The planting is a very simple operation. It may be advantageously performed by a man and a boy working together. The man, driving a spade into the sand, makes a slit, into which, behind the spade, the boy slips a tree; the man then withdraws the spade, tramping the soil about the tree as he advances to plant the next one. The trees should be planted about six feet apart each way. This distance will require 1,210 trees per acre. The sanded land is already partially stocked in many places with trees from natural seeding, so that a considerable amount of the work will be saved if this growth can be utilized. But to do this, planting must begin at once, because the irregular and scattered nature of the stand will cause such naturally-planted trees to be branchy if left in their present density, rendering the future growth almost worthless. Close planting will

cause the young trees to form clean, straight boles.

After the plantation has grown six or eight years, it should be thinned by removing about half the stand. A second thinning at the end of twelve to fifteen years should remove about half of the remainder of the trees. At the end of twenty years the majority of the trees remaining may be cut out for sawlogs.

ERODED LANDS.

The eroded lands from which the fertile soil has been partially removed may be profitably planted to black walnut or hardy catalpa. If the plantation is to be made of catalpa alone, the work of planting should begin immediately. For this purpose 1-year-old seedlings should be purchased from a nursery.

The trees should be planted from 4 by 8 to 4 by 6 feet apart. This rate of planting will require from 1,360 to 1,815 trees per acre. The catalpa after planting will need as good cultivation as is usually given to a corn crop. For the first two or three years the young trees must be kept free from weeds.

The catalpa may also be planted on sanded land, provided the sand is not over 2 feet in depth. This tree requires a rich soil, but its roots, which at maturity reach down to a depth of 4 or 5 feet, will quickly penetrate a foot or two of sand.

If the walnut is desirable it will probably be more profitable to plant it in mixture rather than in pure plantations. The walnut grows so slowly that the planter would have to wait too long for returns. If planted in mixture with such a rapid-growing species of the catalpa, the walnut seeds should be planted in the permanent sites two or three years prior to the introduction of the catalpa. This will give the walnut seedlings time to gain sufficient height to avoid being overtopped by the more rapidly growing catalpa. The catalpa makes its most rapid growth during the first ten years of its life, and matures early, while the walnut persists in its growth for a century or more. The Kansas River bottoms are exceedingly well adapted to the growth of walnut, and for a permanent forest growth there is no better species. Like the catalpa, it requires a fertile soil, and will probably give poor returns on lands covered with more than 2 feet of sand.

LANDS ERODED AND SUBSEQUENTLY SILTED.

Much land in the Kansas River Valley had the surface soil removed for several feet in depth, and was then covered with silt from a few inches to a foot deep. Where this land lies so low that it is likely to be submerged at every future freshet, the best way to manage it is to let it grow up to willows and cottonwoods. The trees will collect the silt at each rise in the river, and will assist in building the soil up to its former level. Where the land is not so low as to be liable to inundation oftener than once in four or five years, such rich silted flats may be profitably planted with hardy catalpa.

CAVING RIVER BANKS.

At many places along the stream the flood has left perpendicular banks of soft soil that are being constantly undermined by the current, causing the land to cave into the river from time to time. It is very important that such places be protected, for every such caving bank is a menace to all the land lying back of it in the valley.

In such a valley, where the bed of the stream does not come within scores of feet of bed rock, the use of stone structures for protecting the river banks is very expensive, and at the same time ineffective. The most successful method of protecting a soft alluvial river bank is to make it sloping instead of perpendicular, and to keep it covered with vegetation.

The willow is admirably adapted to holding alluvial soil in place. It is far more serviceable for this purpose than walls of masonry, and the facility with which it reproduces itself by seed, suckers, sprouts, and cuttings, both natural and artificial, makes its use very simple and inexpensive.

BABY SALE

There are a great many hungry hearted women who would attend a baby sale if babies were ever offered for sale, because there are a great many wives who love children and have been told by physicians that they can never hope to nurse a child of their own.

Some of these women who have used Dr. Pierce's Favorite Prescription for the cure of womanly ills have been made happy mothers as a result of the cure of womanly disease and the building up of the general health.

Doctor Pierce's Favorite Prescription makes weak women strong and sick women well. It establishes regularity, dries weakening drains, heals inflammation and ulceration and cures female weakness.

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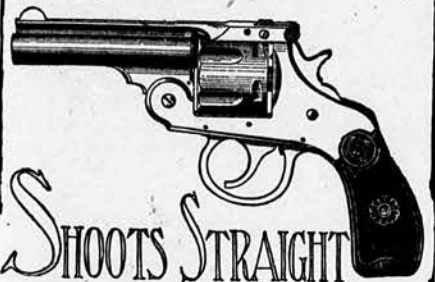


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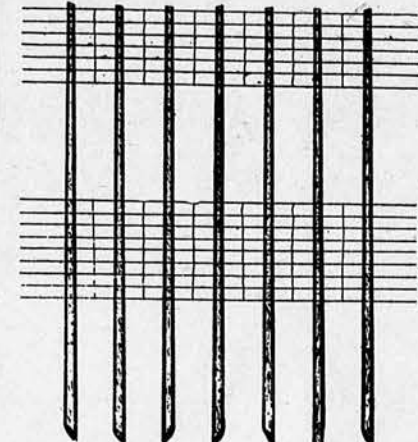
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KANSAS CITY, MO.

The great difficulty with planting any sort of tree on perpendicular banks is that the caving of the soil is so rapid that the planted tree has no opportunity to get a start before it is undermined and precipitated into the river. An excellent scheme has been proposed by Mr. E. Bayles, of Linwood, Kans. The plan is as follows: Green willow poles 18 to 20 feet long are secured in the spring, just after the ice goes out of the stream. These poles are laid on the ground near the bank 2 feet apart, with their butts all pointing toward the river. Woven



Revetment for protecting river-bank.

fence-wire is then stretched along over the poles and stapled fast to each one. Sections of wire about 100 feet long can be handled to best advantage. After the wire has been securely fastened to the poles, they are all pushed over the bank together, so that the butts of the poles will fall and sink into the soft mud at the water's edge. As the bank caves off some of the falling soil will lodge on the wire, partially burying and weighting down the poles, which will consequently strike root and grow. The wire will serve to hold the mass of willows together until they have become firmly rooted. The ends of the woven wire should be made fast to wire cables running back over the bank some distance, and fastened to posts set firmly in the ground. The caving and erosion of the bank will soon round off its top corners, and the growing willows at the water's edge will catch the soil as it rolls down the declivity, causing a bank to form of just the right slope to resist erosion most effectually. The accompanying diagram illustrates the method of fastening the poles to the wire.

IMPORTANCE OF BEGINNING NOW.

It is urgently recommended that landholders begin operations at once for the reclamation of their injured lands. If these lands are planted to forest-trees, in twenty years' time the soil will have been restored to its former state of fertility. During this time the growing trees will be accumulating a valuable product, for which there is every prospect of a good market. Prof. Chas. E. Bessey, of the University of Nebraska, maintains that even for fuel the growth of cottonwood timber is a very remunerative business, since the cottonwood is capable of producing more heat units per acre per annum than any other tree adapted to the Middle West. The cottonwood makes good lumber for dimension stuff, and will attain a size large enough for sawlogs in twenty years.

The hardy catalpa on rich soil will produce more fence-posts per acre in a shorter time than any other species. Some catalpa plantations in Kansas have paid 6 per cent compound interest on the land and labor invested, and \$10 an acre per annum net profit, for a period of twenty years. This is a much greater income than the average returns from agriculture.

With such prospects in view the owner of Kansas River Valley lands need not feel discouraged, even though his valuable farm lands have been rendered temporarily worthless for agriculture.
GEO. L. CLOTHIER,
Field Assistant, Bureau of Forestry, U. S. Department of Agriculture.

"Now I lay me down to sleep—hurrah, boys!" was the way 19-months-old Benny began his prayers. And after the "amen"—"there, that's all."

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SALZER'S NATIONAL OATS.
Yes, farmers of America, lend me your ears, while I chant the merits of this new Oat Novelty. Editors, Agricultural Writers, Institute Orators, all talk and write about this new Oat. It yielded in Wis. 156 bu., in Ohio 187 bu., in Mich. 231 bu., in Mo. 255 bu. and in N. D. 310 bu. per acre, during 1903, and in 1904 you can grow just as easily 300 bu. per acre of Salzer's National Oats, as we can. Your land is just as good, just as rich and you are just as good a farmer as we are. We hope you will try this Oat in 1904, and then sell same for seed to your neighbors at a fancy price, next fall.

Macaroni Wheat.
It does well on arid, dry lands, as also on rich farm lands, yielding from 30 to 80 bu. per acre.

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The Stock Interest.

THOROUGHbred STOCK SALES.

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

April 23, 1904—Staudt & Keeler, Ottawa, Duroc-Jerseys.

April 24 and 25, 1904—Aberdeen-Angus Combination Sale, Des Moines, Iowa, Chas. Escher, Jr., Mgr.

April 28, 1904—Breeders' Combination Sale, Sabetha, Kans., Shorthorns.

April 29, 1904—Breeders' Combination Sale, Hope, Kans., H. R. Little, Mgr., Shorthorns.

May 24 and 25, 1904—Aberdeen-Angus Combination Sale, South Omaha, Chas. Escher, Mgr.

November 1, 1904—W. B. VanHorn & Son, Poland-Chinas, at Overbrook, Kans.

Color in Shorthorns.—No. 6.

EDITOR KANSAS FARMER:—I now take up the cow class 3 years old or over at the great International show.

First prize, Village Belle 2d (light roan), bred by Wm. Duthie, Scotland. Her sire was the white Silver Plate 145554, bred by Duthie. Her dam was red and white, by a roan bull of Duthie's breeding.

Second prize, Happy Valley (red). Her dam was a roan. Her sire was the red Valley Champion 130485, he by the famous roan show bull, St. Valentine 121014, bred in Ontario.

Third prize, Star's Queen (roan). Sire and dam were both roans.

Fourth prize, Imp. Stella (roan). Her sire was a roan, bred by Wm. Duthie, Scotland. Her maternal grandsire was a roan, bred by W. S. Marr, Scotland.

Fifth prize, Second Mary of Walnut (red, white marks). Her sire and dam are red. Both grandsires are red, of Cruickshank stock, with the customary ancestry of mixed colors in that line of breeding. One grandam is a roan bred by Cruickshank. The other is a red, bred in Kentucky with an ancestry of mixed colors, the red predominating.

Sixth prize, Imp. Maggie 12th (roan); seventh prize, Imp. Solidity 2d (roan); eighth prize, Lovely Tulip (roan); all of the last three bred in Scotland. The sire of the sixth-prize cow was a white bull bred by W. S. Marr, Scotland.

Six of the eight winners were roans. Five were imported. Further comment is needless. A stockman who can not draw a lesson from the above is to be pitied.

D. P. NORTON.

In Favor of Fowler's Plan.

EDITOR KANSAS FARMER:—A few words in regard to the Fowler Packing Company and what commissionmen call open market.

We heartily endorse the Fowler Packing Company's attitude in the stand they have taken against stockyards' rules. Commissionmen say it is against them. Why so? Because commissionmen are afraid they will lose their jobs as salesmen. It reminds me of life insurance agents who are scouring the country and trying to make people believe they are out for the benefit of those whom they can induce to take out policies, while their object is simply their own increased profits, caring nothing about the policy-holder after they once get him tied up, nor what becomes of him after they get a fee out of him. Commissionmen are doing a fine business and do not want any one to interfere with it, while, at the same time, they are trying to make the shipper believe they are having all this talk and worry in his behalf. It seems to me that stock-growers and shippers ought to see into it plainly. We have been trying to keep out of our business one thing, that is, the middleman who takes an additional commission from our stock and produce, cutting short our dividends. He will have his fixed commission whether the stock-raiser has anything left or not. It costs about \$1 per head to have cattle handled through commissionmen, whereas by the Fowler plan this would be saved and we would have a home market for our cattle and know just what we are getting for our stock before it leaves home. It would bring open competition to our doors instead of open markets, as they call it at Kansas City. I say, stockmen, look at your own interest; others will not, but will blind you to get the commissions. Railroads are oppressive, charging extortionate rates. Commissionmen are following suit, refusing meal-tickets,

which were once a rule among them. They combine together to give the stock-raiser poor accommodation. One way and another, stockyards' companies are bleeding us shamefully. Let us encourage the Fowler Packing Company; others will follow and a grand victory will be won.

We are capable of making our own sales, we must economize on all sides if we want to stay in the stock business and make a success of it. The Drover's Telegram of late date says that the Fowler Packing Company is still holding out; that the Fowler's primary object in establishing its own market was to get its supplies as much below the prices paid at the open market as possible. If it has in any instance paid as much or more for the stuff secured by it than the price current in the open market, it has been because of the shippers holding out for such higher prices. And if the company is to do business, it must pay the prices demanded by the owners of stock.

Further, the Drover's Telegram says, if the company continues to do business on its present policy, it will pay well for every head of stock it secures.

This is a plain give-away against the commissionmen, or those who are fighting the Fowler Packing Company. It says plainly that stockmen will receive good prices for stock sold to the Fowler's Packing Company.

It is also plain to be seen that Fowler's Packing Company can afford to pay higher prices for stock as there is no yardage, no commission, feed-bills, or shrinking, and filling up will be done away with.

We have private stockyards at home and our customers can have all the private stockyards they wish; so we get what we should have for our cattle we will have nothing further to say. If our business is satisfactory, we will not mind others. If you want prosperity in business, keep out the middleman. Do not pay two commissions where only one is necessary.

HENRY SPRINGER.

Riley County.

The Butler, Mo., Horse Sale.

On Wednesday, April 13, the Lake Park Farm owned by F. K. Lisle & Co., held a sale of Standard and trotting-bred horses drafted from their breeding herd. Many of the animals consigned were the get of Dr. Cox 20015 by Domineer 8575 by Red Wilkes. Dr. Cox's dam is Necklace by Hector Wilkes, a half-brother of Red Wilkes, and his trial record as a pacer is 2:13 1/2. He has proved a remarkable sire and every animal of his get offered in the sale showed great speed and fine action. The sale was held at the breeding stables on Lake Park Farm about a mile from Butler and the animals were exhibited on the adjacent track. There was a goodly crowd in attendance and the sale was very satisfactorily handled by Col. R. L. Harriman, of Bunceon, Mo., and W. D. Ross, of Otterville.

A number of the horses sold were the get of the other herd stallion, General Boaz 3020 by General Boaz was sired by Boaz 3754 by Onward 1411. His dam was Bric-a-Brac by Onward, who was the greatest sire in the world, living or dead. The offering in this sale was a nice bunch of horses and they were worth more money as a general thing than they brought. Owing to the fact that the business of the owner prevented him from giving the sale-stuff personal attention, they were not especially fitted when brought into the ring. The herd sires are unquestionably great animals, and we are glad to learn that the owner proposes to retain them and continue his breeding operations. As this was the first sale ever attempted by the owner and as a number of the animals sold were young and green colts, the average was kept down much below what it otherwise would have been. In the sale a total of 39 head was disposed of, including aged brood mares and young, unbroken bits for a total of 60,585. The owner still has on his place about sixty head of these trotting-bred and Standard-bred horses and he proposes to make an annual sale hereafter, though we understand that parties who may desire to purchase individual animals can be accommodated from the herd now on hand. The sale was characterized by the spirit by which it was conducted and was made more interesting by the offering of two or three matched teams, some of which sold together and others separately. We were specially interested by a matched team of bays sired by Dr. Cox, 5 and 4 years old, and another one sired by General Boaz, each 5 years old. Both these teams sold together, as indeed they were too nice to separate. Among the buyers present were Lee Robinson, Boonville; W. A. Harris, Bunceon; Ray McCullough, New Home; Ed. Griffith, Appleton City; Irvin Pifer, Fort Scott, Kans.; J. H. Phillips, Joplin; Lee Corbin, Pleasant Gap; J. H. Gunn, Otterville; Mr. Landkup, Bunceon; Dr. Simcoe, Nevada; Mr. Hill, Sedalia; and the following from Bates County, Missouri: Andy Swindle, J. T. Hyatt, John L. Stanley, Walker Cameron, Harry H. Henry, Frank Mabbott, H. H. Lisle, Geo. Cobb, J. B. Smith, J. R. Morrison, Harley Smith, Alfred Cobb, Jessie Smith, Wm. Hubbard, W. H. Dixon, Frank Wright, W. T. Johnson, and M. L. Hoover. Mr. J. C. Clark is the present owner of this herd and he will

be glad to answer questions regarding good drivers or speed prospects that yet remain in his herd.

The Watson Shorthorn Sale.

The sale at Emporia developed the fact that old-time Shorthorn breeders, who for years have been breeding Herefords, have bidden the whitefaces "goodbye," and are now building up new Shorthorn herds, most prominent of whom at the sale were, J. W. Troutman, Comiskey, Kans., president of National American Angora Goat-breeders' Association; James Robertson, Strong City; John Olson, Neosho Rapids; and the Kansas Farmer's patrons, who came up from Oklahoma: E. G. Betts, Hawley; W. A. Ayers, Sand Creek; and A. J. Cornelius, Braman. It was the demands of these herd-builders that caused the first-class animals offered for sale to bring the satisfactory prices received. The sale developed a spirited competition between Kansas and Oklahoma, in which Kansas, as usual, won.

Mr. James Robertson secured six of the best offerings with the prize at \$300; John Olson secured three; E. G. Betts, Hawley, Okla., secured four; and Mr. Ayers one. The average price of the seventeen cows sold was \$115.88, and of the seven bulls was \$77.87.

The sales in detail were as follows:

COWS.	
Highland Mary 3d, J. W. Troutman, Comiskey, Kans.	\$95
Martha, J. Robertson, Strong City	175
Lindy, W. H. Collins, Emporia	85
Rose Templar 2d, E. B. Grant, Emporia	75
June Rose, E. G. Betts, Hawley, Okla.	85
June Rose 3d, John Olson, Neosho Rapids	145
Nelly Bly of Riverside, E. G. Betts	45
Nelly Bly 2d of Riverside, F. E. Kelley, Lebo, Kans.	65
Nelly Bly of Fieldstone, E. G. Betts	130
Nelly Bly 2d of Fieldstone, John Olson	85
3d Red Mollie, W. J. Robertson	100
Nelly Bly 3d of Fieldstone, George Atkinson, Emporia	70
February 2d, E. G. Betts	80
2d Lady Bampton W. J. Robertson	255
3d Lady Bampton W. J. Robertson	300
4th Lady Bampton W. J. Robertson	115
Highland Mary, J. Robertson	70

BULLS.	
Flora's Chief, J. W. & J. C. Robison, Towanda	\$120
February Duke, J. C. Hoch, Emporia	55
June Rose's Chief, W. A. Ayres, Sand Creek, Okla.	65
Highland Mary's Chief, John Olson	150
Nelly Bly's Chief, W. P. Ray, Hartford, Kans.	40
Rose Templar's Chief, R. F. Hughes, Emporia	60
Nero 2d, J. G. Stout, Emporia	55

Dickinson County Shorthorn Breeders' Association.

The Dickinson County Shorthorn Breeders' Association was organized at Hope, April 12. The following breeders were present: H. R. Little, M. C. Hemenway, S. H. Lenhart, E. A. Sumner, E. Mueller, D. Ballantyne, Geo. Channon, and C. W. Taylor. Those unable to attend but in sympathy with the movement are, O. L. Thistler, Clem Bell, G. W. Kelley, J. E. Landis, and O. E. Simmers. The cattle represented by the association number something over seven hundred head.

The main objects of the association are, first, to enable intending purchasers to buy well-selected stock in car-lots or less; second, to hold semiannual sales.

The officers of the association are: H. R. Little, president; M. C. Hemenway, vice-president; D. Ballantyne, treasurer; C. W. Taylor, secretary. The matter of a location for a sale-pavilion was deferred until the next meeting on account of the want of a definite proposition.

The Ottawa Duroc-Jersey Sale.

On Saturday, April 23, in the Ottawa sale-pavilion, Messrs. L. A. Keeler, Ottawa, Kans., and J. F. Staudt, Pomona, Kans., will sell fifty-five head of Duroc-Jersey hogs and four extra quality Shorthorn bulls. The Duroc-Jerseys are rapidly covering the Western country and if the exhibits at the great fairs are an index, they are fast becoming the most popular breed of hogs. The combined exhibit of Duroc-Jerseys at the Iowa and Nebraska fairs last fall numbered 1,615 head, while the Poland-Chinas showed 1,396 head, Chester Whites 567 head, and the Berkshires 289 head. The largest Duroc show in Kansas was made at the Ottawa Fair, when the two consignors to this sale were winners of practically all of the first prizes, and it is from this prize-winning blood that the sale-stuff will be drawn. Either of the consignors will furnish you with catalogue. See announcement on page 450 and remember the date and be there.

The Sabetha Shorthorn Sale.

Turn over to page 455 and look at the list of names of men who consign Shorthorn to the Sabetha sale to be held on Thursday, April 28. You know them. Every Shorthorn breeder does and he knows the quality of stock they breed. Wouldn't you like to own a few head? What an opportunity for a young breeder to start in the Shorthorn business and what an opportunity for the farmer to get some new and good blood into his herd. Write John McCoy, Sabetha, Kans., for a catalogue and be on hand when the sale opens at 1 o'clock p. m. Sabetha is on the Rock Island and the St. Joseph & Grand Island roads and is easily reached from any direction. This sale will be made by some of the best Shorthorn breeders in the West and it will pay to be there.

The Hope, Kans., Shorthorn Sale.

On April 29, at Hope, Kans., will be held a combination sale of 25 Shorthorn bulls from the herds of four of the best-known breeders in central Kansas. Look at the advertisement on page 455 and see what is offered and by whom. These bulls were sired by such bulls as Rosemond Victor 12th 136313, Prosperity 193595, Sharon Lavender 143002, and Royal Crown 125698; and what breeding could be better from which to get the good, strong, serviceable bulls needed by every breeder and farmer. There never can be too many good bulls in Kansas, and here is an opportunity to

Horse Owners! Use

GOMBAULT'S Caustic Balsam

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

HAVE YOU HORSES?

Are any of them troubled with Spavins, Ring Bones, Splints, Curbs or any other form of Lameness? If so you need KENDALL'S SPAVIN CURE. It Cures all of These. Hartmonville, W. Va., Jan. 5, 1903. Dr. B. J. Kendall Co., Enosburg Falls, Vt. Gentlemen—Please send me a "Treatise on the Horse and His Diseases." I have used your Spavin Cure and think it has no equal. Very truly yours, GEORGE B. JENKINS. Price \$1; 6 for \$5. Ask your druggist for Kendall's Spavin Cure, also "A Treatise on the Horse," the book free, or address DR. B. J. KENDALL CO., ENOSBURG FALLS, VT.

Spavin and Ring-bone

Once hard to cure—easy now. A 45-minute treatment does it. No other method so easy, quick and painless. No other method sure. Fleming's Spavin and Ringbone Paste cures even the very worst cases—none too old or bad. Money back if it ever fails. Lots of information if you write. Book about Spavin, Ringbone, Curb, Splint, Bog Spavin and other horse troubles sent free. FLEMING BROS., Chemists, 219 Union Stock Yards, Chicago, Ill.

STOPS ANIMAL DISEASES

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

LUMP JAW NO CURE NO PAY

W. S. Snaed, Sedalia, Mo., cured four steers of lump jaw with one application to each steer; and J. A. Keseman, O-born, Mo., cured three cases with one application to each. Hun treds of similar testimonials on hand. Full particulars by mail. Write to CHARLES E. BARTLETT, Columbus, Kans.

DEATH TO HEAVES

NEWTON'S Heave, Cough, Diarrhea and indigestion Cure. A veterinary specific for wind, throat and stomach troubles. Strong recommendations. 1.00 per case. Dealers. Hatter, E. J. paid. The Newton Remedy Co., Toledo, Ohio.

NO MORE BLIND HORSES.

For Specific Ophthalmia, Moon Blindness, and other Horse Eyes. Barry Co., Iowa City, Ia. have a cure on MRS. GEO. L. BARBER, Saffordville, Kans. Will furnish Barred P. R. eggs from 94-point birds, 15 for \$1.50.

ANGORA GOATS and SHORTHORN CATTLE

Does, bucks and kids for sale by J. W. TROUTMAN, COMISKEY, KANS.

BUCKEYE GALLOWAY HERD

Royal bred and princely Galloway bulls. One 2-year-old, five 14-month-old, sired by Kaylor 15613, out of Chillietho, Lady Byrd, and Salvador—Garnett's Heave for sale by GEO. L. BARBER, Saffordville, Kans.

PEYTON SHORTHORN HERD

Has six registered 15-month-old bulls, weighing 1000 to 1100 pounds, for sale at private treaty. Master of the Grove 161374, one of the best Cruickshank-Orange Blossoms in Kansas, at head of herd. Call on or write JOHN W. BAKER, Strong, Kans.

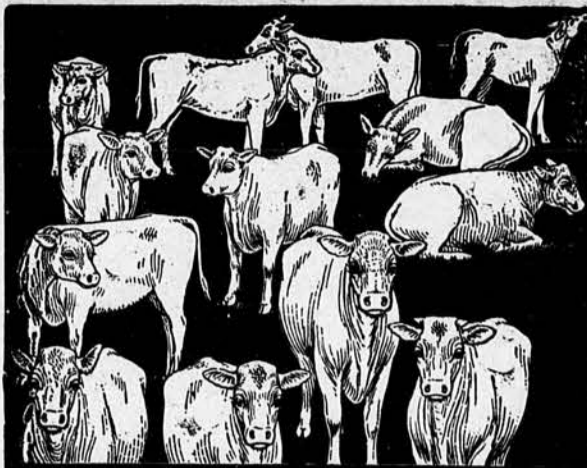
FARM LANDS

Kansas farm lands, \$5 to \$10 per acre. Ten years' time—one-tenth cash. Over 1,000,000 acres sold in 1903. Buy before values are further advanced. Ranch lands in Colorado, \$1.50 per acre. EXCURSION MAY 3.

UNION PACIFIC LAND AGENCY, 523 Kans. Av., Topeka, and Room 8, Union Depot, Kansas City, Mo.

AT FACTORY PRICES.

Buggies, Harness, Saddles, Stoves, Guns, Furniture, Household goods and Novelties—Farmers Account Book. Send two cent stamp, name and address for catalogues and Factory Prices to Central Supply Co., 1618 Walnut Street, Topeka, Kansas.



3 FEEDS FOR ONE CENT

Beware of Imitations and Substitutes. Write Us About "International Stock Food." We Have Thousands of Similar Testimonials and Will Pay You \$1000 Cash If They Are Not Genuine.

A \$300000 STOCK BOOK FREE

BOOK CONTAINS 183 LARGE ENGRAVINGS OF HORSES, CATTLE, SHEEP, POULTRY, ETC.

The Cover of this Book is a Beautiful Live Stock Picture. Printed in Six Brilliant Colors, and Without Any Advertising on it. Size of Book is 6 1/4 by 9 1/2 inches. It cost us \$3000 to have our Artists and Engravers make these Engravings, which are the finest engravings of Horses, Cattle, Sheep, Hogs and Poultry that you have ever seen. They are all made from actual photographs and are worthy of a place in any library. It also gives Description, History and Illustrations of the Different Breeds of Horses, Cattle, Sheep, Goats, Hogs and Poultry. It contains Life Engravings of many very noted Animals. It contains a Finely Illustrated Veterinary Department that Will Save You Hundreds of Dollars, because it describes all common diseases and tells you how to treat them. The Veterinary Illustrations are large and scientific and better than you can obtain in any other book regardless of price.

WE WILL PAY YOU \$10.00 CASH IF BOOK IS NOT AS DESCRIBED

WE WILL MAIL ONE COPY OF THIS BOOK TO YOU ABSOLUTELY FREE, With Postage Prepaid, If You Will Write Us At Once, Letter or Postal Card, and ANSWER THESE TWO QUESTIONS:

1st.—NAME THIS PAPER.

2nd.—HOW MUCH STOCK HAVE YOU?

Address At Once.... **INTERNATIONAL STOCK FOOD CO., Minneapolis, Minn., U. S. A.**

A BEAUTIFUL COLORED PICTURE OF OUR CHAMPION STALLION DAN PATCH 1:56 1/2 (SIZE 21 BY 20) MAILED YOU FREE IF YOU SEND FOR THIS BOOK



Largest Stock Food Factory in the World. Capital Paid In, \$2,000,000. 775,000 Feet of Space in Our New Factory. Contains Over 16 Acres of Space.

get them at your own price. Hope can be reached by Santa Fe, Rock Island, and Missouri Pacific roads and will be a mighty good place to be on the day of the sale.

The Anderson & Findlay Angus Sale.

On Wednesday, May 4, at Iola, Kans., will be held a great sale of Aberdeen-Angus bulls from the Allendale Herd, which will include their entire crop of long yearling and 2-year-old calves. Perhaps no one of the beef breeds has proved more popular in the West than the Angus and no opportunity will occur in the near future for buyers to select from so large or so good a herd. Much of the sale stuff is from prize-winning parentage and the individuals are excellent. In fact, it is claimed that this offering will be the best ever offered at public sale. They are of the breed that tops the market. It is a great opportunity. Write Thos. J. Anderson, Route 2, Iola, for catalogue.

Gossip About Stock.

E. S. Cowee, Osage County's breeder of fine Duroc-Jersey swine, has not changed his residence, but the rural route having been somewhat improved he wishes to be address at R. F. D. No. 2, Scranton, instead of Carbondale as heretofore.

Besides the splendid opportunity offered at the combination sale at Hope, Kans., on April 29, 1904, it is well to observe that George Channon, of that place, has 150 thoroughbred female Shorthorns of all ages to which he invites inspection by those who will attend the big sale.

Geo. Groenmiller & Son, owner of the Coburn Herd of Red Polled cattle, Pomona, report that they have a few extra young bulls for sale, that they think are hard to beat. Among their recent sales made are H. Holt, Milan, Kans.; Ed. Hald, St. George, Kans.; and Geo. Haas, Lyons, Kans.

J. C. Robison, of the Whitewater Falls Stock Farm, Towanda, Kans., writes that the big mare in the team shown on page 402 of last week's Kansas Farmer celebrated the publishing of her picture in this paper by dropping a nice stallion colt on April 12. Mr. Robison has recently bought another carload of registered Shorthorn cows and will soon have a herd that will rank in numbers and quality with the good ones of Kansas.

Dr. D. E. Salmon, Chief of the U. S. Bureau of Animal Industry, Washington, D. C., writes H. A. Heath, secretary of the Kansas Improved Stock-Breeders' Association, that he has placed all the members of the association on the list to receive the monthly list of publications of the Department. In this way breeders can keep in touch with special reports that are issued and be in line to receive them before the supply is exhausted.

Any lady reader of the Kansas Farmer who is interested in a cream-separator and who will write the separator department of the John Deere Plow Company, Kansas City, Mo., will receive a little red book containing points of value. Do not fail to write at once. They are really worth having and you will be pleased with them. It is about the biggest value you ever got for a postal card. Just ask for the book of points and tell them the Kansas Farmer said so.

Among the good things to be offered in the Shorthorn sale to be held at Hope, Kans., on April 29, are a bunch of young bulls contributed by Geo. Channon, of Hope, Kans. These are all grandsons of the Thistletop bull, Glendower 103387, and they ought to be good ones. Few bulls in Kansas have done more to improve the Shorthorns of the West than did old Thistletop, imported by Colonel Harris and used for a time in the State Agricultural College herd and later in the Valley Grove Herd of T. P. Babst & Son, Auburn, Kans. Bulls of his get ought to be worth going a long way to see. Mr. Channon now has Rosamond Victor 12th 136313 and Ruby's Victor 171602 at the head

of his herd. Don't forget the date and if you can not be there send your bid to Col. J. W. Sparks, in care of H. R. Little, Hope, Kans.

McLaughlin Bros., Kansas City, of their recent importation, write as follows: "Our first importation for this year landed in New York Tuesday morning, was transferred to three Adams' Express cars which arrived here Wednesday morning and one car was sent on to Kansas City immediately. Every horse that started from France arrived here well and in good condition. The demand for Percheron and French Coach stallions is so great that Mr. James McLaughlin is now preparing to send over another lot some time next month."

Mr. E. P. Sherman, owner of the Clear Creek Herd of Poland-China swine at Wilder, Kans., writes that his hogs are in extra fine condition this year and that he has had farrowed the best lot of pigs he has ever owned. Mr. Sherman is a man who knows how to breed good hogs and how to buy them. When he sees a hog that he needs he does not let a few dollars stand in his way. He is the man who offered \$1,000 cash for J. R. Young's great herd-boar. If you want good hogs that are bred right write to Mr. Sherman.

It is now reported that the great Empire Cream Separator Company at Bloomfield, N. J., has completed arrangements whereby it will establish a mammoth branch house at Wichita for the better handling of its increasing business in Kansas, Oklahoma, Missouri, Indian Territory, and Texas. The capital of this company is up in the millions and their growth has been remarkable. Cream separators will be shipped to Wichita in car lots from the New Jersey factory and will then be distributed to their patrons. It is stated that an investment of \$200,000 worth of cream separators will be made at Wichita.

We add to our breeders' cards in this issue that of Mr. J. W. Troutman, of Comiskey, Kans., who is the president of the American Angora Goat-breeders' Association, whose flock consists of more than 100 does, and 10 bucks, which number may be doubled by the time this is printed, as many of the does are giving birth to twin kids. Few farmers realize the profits in goat-keeping. The fleeces sold this year at 36 cents per pound, the herd buck shearing nine pounds, and many of the does shearing 6 1/2 to 7 pounds, while the 1904 shearing from the flock gave an average shearing of 4 1/2 pounds per head.

Kansas had the best sale of Herefords west of the Mississippi this year. This was the sale of the Sunny Slope Herefords by C. A. Stannard, at Emporia, at which the average on 100 head was more than \$172. The next best average of the year was made at Ash Grove, Mo., on April 12, when a draft from the Clover Leaf Herd of W. G. Swinney was disposed of. A good crowd was in attendance and listened with interest to the forcible address with which Col. J. W. Sparks opened the sale. Col. R. L. Hariman was the other auctioneer in charge and we think the success of the sale was largely due to the fact that Mr. Swinney knows how to employ good auctioneers as well as how to breed good cattle. The summary of the sale is as follows: 18 bulls brought...\$1,670; average....\$92.78 18 females brought...2,385; average....132.50 36 head brought....4,055; gen. av....112.64

Payton Creek, Chase County, has near its head the Shorthorn herd of Mr. John W. Baker, which has for its head Master of The Grove 161374, a superb roan, 5 years old, one of the best Cruickshank Orange Blossom Shorthorns in the State of Kansas and one of the best individuals ever raised by that leader of Shorthorn breeders. Mr. O. C. Robinson, of Winchester, Ky., with cows of equal excellence to form the herd, bearing in their veins the blood of Waterloos, White Roses, Arabellas, and Alexandrias. Mr. Baker has for sale six good bulls, 16 months old, (Continued on page 450.)

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

BLACKLEG
BEST PREVENTIVE
VACCINATE your cattle with **Blacklegoids**—the simplest, safest, surest preventive of Blackleg. Each **Blacklegoid** (or pill) is a dose. Administration with our **Blacklegoid** Injector is performed in one minute. We establish the purity and activity of our **Blacklegoids** by rigid tests upon animals. For sale by druggists. Write us for literature—free on request.
PARKE, DAVIS & CO.
DETROIT, MICHIGAN.
BRANCHES: New York, Chicago, St. Louis, Boston, Baltimore, New Orleans, Kansas City, Minneapolis, Indianapolis, Memphis, Walkerville, Ont.; Montreal, Que.; London, Eng.

Moore's Hog Remedy
Original Hog Dip and Feed
Used on the outside of Hogs—one part to fifty of water, is guaranteed to cure scurvy and measles, kill lice and all other vermin, without injury to the eyes. A small quantity weekly, given in water or any liquid food, will remove worms, aid diges- tion, cleanse the blood, and promote health. Used and in- gested by lead- ers everywhere.
Prevents Disease at Small Cost
Get the genuine, at dealers in sealed cans only—never in bulk; or trial gallon, direct, express prepaid, \$2.50. Lower price in quantities.
Book, "Care of Hogs," with illustration of Dipping Tank, FREE. Address,
Moore Chemical & Mfg. Company
1501-3 Genesee St., Kansas City, Missouri
Use Car-Sul Coal Tar Disinfectant Dip \$1.50 per Gallon, Express Prepaid

Local agencies and complete repair stocks everywhere
MCCORMICK HARVESTERS
International Harvester Co. of America, Chicago, U. S. A.

The Young Folks.

CONDUCTED BY RUTH COWGILL.

BATTLE HYMN OF THE REPUBLIC.

Mine eyes have seen the glory of the coming of the Lord;
He is tramping out the vintage where the grapes of wrath are stored;
He hath loosed the fateful lightning of His terrible swift sword,
His truth is marching on.

I have seen Him in the watch fires of a hundred circling camps;
They have builded Him an altar in the evening dews and damps;
I can read His righteous sentence by the dim and flaring lamps,
His day is marching on.

He has sounded forth the trumpet that shall never call retreat;
He is sifting out the hearts of men before His judgment seat;
O, be swift, my soul, to answer Him, be jubilant my feet;
Our God is marching on.

In the beauty of the lilies Christ was born across the sea,
With a glory in His bosom that transfigures you and me;
As He died to make men holy, let us live to make men free,
While God is marching on.

—Julia Ward Howe.

Over the Border—A Story of the Kansas Pioneers.

IV.

(Copyright 1904, by Ruth Cowgill.)

CHAPTER VI.—THE LITTLE HOME ON THE PRAIRIE.

After the election of the Territorial Legislature, Nathan set to work to found his home in this new land. He looked over the country well in the vicinity into which he had come, and chose a claim of 160 acres of excellent soil and situation, a few miles out of Lawrence. He at once pitched his tent and transported his household goods thither, Sarah assisting him to unpack the essentials for living, and storing the rest as compactly as possible.

They found that they had arrived with a good deal less household equipment than they had started with, having lost a box or two containing some of the things which always had seemed to them essential to living. But they learned that civilization has decreed many things to be necessary which are in fact merely luxuries. For instance, two forked branches stuck into the ground with a kettle hanging between them over a fire is fully adequate for a summer cooking-stove; a box is nearly as good as a chair to sit upon; and the lap of dear mother earth makes a most comfortable bed—when once you get used to it.

While Sarah was busy devising new methods of housekeeping to fit strangely new conditions, her father with the assistance, sometimes reluctant and sometimes enthusiastic, of her brother, was putting up the house and breaking the land for farming. He was delayed somewhat in his building by the difficulty of getting lumber, for the one sawmill at Lawrence was kept busy day and night supplying materials for house-building to the many new settlers who were moving in. The little family had not imagined, in planning for it before they came, that their new house would look as it really did. It was composed of two rooms, one 10 by 12, and the other 12 by 16 feet. The sides were of "shakes," a new style of lumber very much in vogue then because the only kind available; and the partition was a large carpet that happened to have come through safely. Shakes were made by splitting the logs, more or less smoothly, with the ax. They were of oak, mostly, of a rather gnarled and crooked variety, so that the general effect of such walls may be better imagined than described. Yet a window was cut in each end of the odd-shaped little building, though as yet there was no glass for them.

The larger room, which they named the parlor, though it served for bedroom and sitting-room as well, had a floor, which seemed a very great extravagance. But Nathan had a certain pride in his dwelling and insisted on making this floor, which he did a little at a time of evenings and at odd moments after they had moved in. It was a very peculiar floor, consisting of cross-sections of logs four or six inches in length, placed firmly

and compactly together upon the ground. Though this made a floor slightly uneven, and rather open, it yet was a vast improvement upon dirt floors, such as most of the settlers had. The kitchen, however, they did not attempt to floor. Henry approved of this primitive style of carpet, saying that it saved scrubbing and was always neat, though Sarah averred his idea of neatness must be very different from hers, if dirt floors seemed to him to answer that description.

There was one low room above, between the ceiling and the roof, which served as a sleeping apartment to Henry and his father, and, sometimes, for strangers stopping on their journeys.

Sarah found much enjoyment and unlimited occupation for leisure moments in making this place a home. She pinned pictures upon the walls, which were almost immediately blown down by the winds, which whistled through the chinks unceasingly. She spread bits of carpet upon the uneven floor, which were constantly kicked up by her brother. She even contrived a curtain for the parlor window, out of a dainty white apron of her own, and was rewarded on coming in from a walk by seeing it waving wildly in the breeze, like an insistent signal of truce.

Sarah thought sometimes that if it were not for her wee, cunning sister to love and pet she would be driven to desperation by the vast loneliness of her habitation. For the prairies are beautiful as the ocean is beautiful; wide-stretching, immeasurable, aloof. Far as she could see was no house, no fence, no sign of human habitation. Off to the southwest a dark line of trees marked the course of the winding river. In the distance her father worked in the field, or the boy chased a rabbit, and in the strange, unhomelike little house she dwelt alone with baby Belle, longing as only youth can long for companionship.

For Sarah was more child than woman, sensitive to every influence, and alive to every impression, whether beautiful or ungracious. A singularly happy, care-free, and uneventful life had been hers, and the years of childhood had merged into youth and left but little trace of their passing, and she was still a child in thought and feeling. This new prairie life was unspeakably strange to her.

And the winds, those monotonous, unresting winds! They got upon her nerves and sang her strange songs. And the constant, blazing sun! She came to long for the rain as much as did her father, though she did not know that much of their comfort—even their very sustenance—depended upon a relief in this direction. And when the rains did come at last, they came in a storm-cloud, whose violence frightened the lonely girl. It shook the little cabin, and poured the rain in through the roof, and through the unpaned windows. It sent long forks of lightning through the room from window to window and from roof to door. It thundered and howled and roared ominously, and the great black clouds threatened her when she watched them rolling and seething.

Her father and brother were away every day all day long, breaking up the virgin fields and sowing seed against coming need, so that she had the terrors of her lonely life to meet and conquer alone.

Besides the fearful majesty of the frequent storms, there was many a monstrous thing to frighten and annoy her. Toads hopped up to her open door and into her parlor; spiders and queer insects crawled in and made themselves at home. Once she opened the bed to put little Belle in, and there coiled comfortably, lay a great snake, his eyes gleaming maliciously at her, and often she saw some of its kind gliding slyly through the grass outside. Strange, rough-looking men called at her home frequently, passing from or to Lawrence, and once in a while an Indian or a half-dozen Indians were her guests; but these latter ceased to frighten her. She always treated them well, making no protest when they entered unbidden, and helped themselves to a pie or even her last loaf of bread. Indeed,

after a few weeks she ceased to fear at all. She learned of her own resourcefulness, and grew self-reliant and cheerful in her growing strength. Her unnatural environment, instead of making her morbid and unhappy, as in the first weeks its tendency had been, began to develop her nature rapidly in beauty and strength. A gracious womanliness began to crown her girlhood.

Golden-haired Belle was her constant companion, and grew into her heart more and more. Belle was growing daily stronger and more rosy and plump in the fresh, pure prairie air, and she kept Sarah entertained with her constant baby prattle. Sometimes she led Sarah a long walk over the hills in search of wild-flowers, or to follow the butterfly's flight. Once they strayed so far that they came in sight of an Indian's wigwam, and turned and scurried homeward.

Thus the long days passed slowly and little of the outside turmoil and bitterness disturbed the peace of the little prairie home.

Sometimes, however, Nathan Fenton went to Lawrence and returned with great news of outrage and violence, and once he brought a newspaper, which told of savage and lawless doings by their Missouri neighbors.

All these public affairs were discussed gravely by the little family circle, in the evenings, and there was much difference of opinion among them. Henry soon forsook the ideas of non-resistance which his father had earnestly tried to instill.

"I don't care, father," he would say valiantly, "These Missourians have no right to come over here and not let us vote, and stuff our ballot-box for us; and if I was some of those men there in Lawrence I'd shoot the old Border-ruffians—yes, I would!"

"Thee is a very little boy, yet," his father said, indulgently. "When thee is bigger thee will learn to use thy sense as well as thy tongue."

"What does thee mean by that, father?" asked Sarah. "Does thee not think it is sensible to protect ourselves, now that we are here, and far away from any law or government?"

"Yes, father," chimed in Henry, "ain't it sensible to protect ourselves and our families?"

Sarah and her father both smiled at his earnest way of saying "our families," but Nathan answered gravely: "There are many things that the brave men at Lawrence have to think of. There are, in fact, military companies among the young men and I fear—I fear that the time will come when war and violence will prevail."

"Does thee, indeed, father?" Sarah's cheek grew white at the vision her father's serious words called up. But Henry's eyes brightened and he said, "If there is a war, father, I am going to be in it."

(To be continued.)

Jackey.

ADA C. WILLIAMS.

Jackey dead—and only a dog! Our hearts are sad. Our tears fall. As we come home and open the house- and barn-doors there is no Jackey to greet us with such excessive joy as only an intelligent, affectionate dog can express. Jackey for ten years was our friend and companion, ever on the alert night and day to guard our person and interests. His greeting to a newcomer was a bark of a peculiar kind if it were a man. He would rush out, eager to meet him and see if his clothes were of the stamp of a gentleman, according to his dog-judgment; for he was a great respecter of good clothes. He had another kind of bark, if it were stock out of place. He was always ready to go out and help, taking his place to do his share—ahead if it were some animal to be driven off. If chickens, he followed as far as their boundary line; if a hen with little chickens, it was impossible to set him on them. If chickens, partly grown, to be driven to their house for roosting, he took his place, following up carefully and slowly, and if one escaped, back he dashed and caught it so carefully with mouth and paws and held it until some of us came to take it.

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When a chicken was killed he stood guard whatever the weather. But if it chanced to be cold or stormy he looked so appealingly at us, that we knew he wished to be relieved from guard; nevertheless, all the time the dressing was going on, cats or chickens were not allowed to come near. When finished there was a dog-smile of satisfaction.

When the grandchildren were here in summer, to go to the tank with suitable clothes and plunge and play in the water was a delight, and Jackey always went of his own accord. He would circle for quite a space around, barking to keep away the cattle and any imaginary foe.

He had a large armchair all his own. It had been used for meals at table, and for some time when the family were called he would get down from the chair without any bidding, but soon learned that the chair was not wanted. If the mat was not in place for him to rest on at night, he would come where we were, look so appealingly that we knew something was wanted. We would follow, he turning to see if we were coming. When we had fixed it, he repaid us with a grateful look. Sometimes he would be disturbed in his chair when he was sleeping and would growl; but whatever I did to him in changing or arranging he never objected, but approved with that expressive rap, rap of his tail. When he wanted to come in the house, the rap, rap on the door with his tail told us what was wanted. Sometimes we were deceived thinking it a person. If we said to him, "No," or "You can't do that," ever so quietly, he would jump into his chair and lie down as if he understood every word.

He became incurably sick and suffered much. Our cowardly hearts knew he must be killed, so in our absence it was done, and a grave prepared under a tree where our eyes could rest upon it. When we came home, no Jackey came to greet us. Then we knew his executioner had done his work. Now our hearts are torn. Why was it not done while we were near to see if it were done quickly that the suffering be as short as possible? We have not had the courage to go near his resting place yet. We feel as the little girl in the story-book: "And my doggie, too, must die! I wish God would send an angel to take him to the sky. Why don't He, grandpa? Don't you think He could make room for him? Are you sure there's room for Daisy? P'raps He'll say I can not come."

For the Little Ones

THE SONG OF NAPOLEON'S GRE-NAD-ADIERS.

(One of the small readers of the Kansas Farmer is a great admirer of Napoleon. He reads everything about the great general and probably knows more of him than a great many grown people. He has written the following verses in honor of Napoleon's soldiers.)

Tramp, tramp, went the grenadier's feet
Tramp, tramp, tramp,
Keeping in time with the drum's loud beat,
Tramp, tramp, tramp.

Clash! went the fifes, boom! went the drum,
Tramp, tramp, tramp,
Here, the grenadier, the conq'ring hero comes,
Tramp, tramp, tramp.

Who are we the soldiers of, would you like to know,
Tramp, tramp, tramp,
The soldiers of the little corporal, General Napo.,
Tramp, tramp, tramp.

Our general brave is Napoleon Bonaparte,
Tramp, tramp, tramp,
If we are his soldiers brave, upon the enemy we must dart,
Tramp, tramp, tramp.

If we are the soldiers of fame "Vive Emperor" we must say with a will,
Tramp, tramp, tramp,
Then storm, and drive the enemy from the hill,
Tramp, tramp, tramp.

Tramp, tramp, went the grenadiers,
Keeping in time with the drum's loud beat,
Clash! went the fifes, boom! went the drums,
Here the grenadier, the conq'ring hero comes.

"The First Grenadier of France."

Latour d'Auvergne, a brave soldier of Napoleon's army, was once taking a long and dangerous journey alone. He found himself at the close of a

summer day near a castle on the border of Italy—a castle in the hands of Napoleon's army. Here he thought he could obtain shelter and food for a day or two at least, and then proceed on his journey. The Austrian army was not far behind him, on the way to a more distant point, where there would probably be a hard-fought battle with the French forces.

When Latour arrived near the castle, he wondered to see it so quiet. There was no noise, indeed there was no sign of life. He went on, and when he came near he shouted to the guard, who, he thought, would surely be keeping the gate. But there was no guard, and the gate stood open; so Latour walked in. Nobody there! The garrison knew that the enemy were coming, and they were afraid to stay. So they had hurried to join the army farther on.

Now where the French army was lying, farther on, some troops from more distant quarters were expected to join them, and in two or three days more they would be much better prepared to meet the foe.

"So," said Latour to himself, as he examined the place, "if those cowardly creatures had stayed here, they could have kept the enemy back awhile, and given our general a little more time to get ready for battle. Twenty-four hours would have been a great gain."

The castle stood high, the path leading up to it was steep and narrow. "Here's a plenty of ammunition, a plenty of arms—three or four brave men could defend this building twenty-four hours," said Latour—"one could, I believe. I'll do it myself."

He shut all the heavy gates, bolted, and barred them, loaded all the muskets, and prepared to defend the castle. The night passed, and early in the morning the Austrian army came marching along. Drums beating—flags flying—it was a fine sight; it would have frightened some people, but it did not frighten Latour d'Auvergne.

The captain of the Austrian army sounded a trumpet, and demanded the surrender of the castle, and receiving no reply, ordered his men to fire. But the castle stood so high that the shots flew wide, and a small party was sent up the narrow pass where they might attack the gate while the others came up to support them. They were few in number, but they were soon driven back or killed. Shot after shot came from the castle, and the Austrian commander found the task he had begun was more than he would be able to finish.

The hours passed on; the day was drawing to a close. The Austrian officer thought he would take the night to rest and then make up his mind what to do in the morning. Latour was rather glad to rest. This defending the castle alone was hard work.

In the morning a messenger carrying a white flag—a flag of truce—appeared before the castle gate. He wished to see the commander of the castle, and Latour told him he was the commander. The messenger demanded the surrender of the castle.

Latour had kept the Austrian army twenty-four hours from going on their way, and that was enough for his purpose.

So he said he would give up the castle on these conditions: The garrison must be allowed to take their arms, and march out safely, to go and join the French army, or to go anywhere else they wished; and after the messenger had gone up and down, to his general and back again, the matter was settled and the conditions accepted.

The army drew up in proper order to receive the garrison. The castle gate was opened, and there came along one man! He carried as many muskets as he could, but he had to leave a good many behind him. The Austrian officers felt as if they had been cheated, but they kept their word, of course, and the brave soldier marched off "with the honors of war."

Napoleon would have been glad to raise Latour to high rank in the army, but he refused, and Napoleon gave him the title of "First Grenadier of France," and ordered that his name should never be taken off the list of

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the army. He was killed in battle, in 1800, and for years after, as long as Napoleon remained in power, his name was kept on the army list. When the roll was called, each man answered to his name, but when that of Latour d'Auvergne was called, the oldest sergeant of the company answered, "Dead, on the field of honor!"—Pamela McArthur Cole, in Western School Journal.

The Home Circle.

CONDUCTED BY RUTH COWGILL.

Written for the Kansas Farmer.

HIS RECOMPENSE.

Louise Castle Walbridge.
Afar from the shadows that darkly lay
Across the thronged path on the broad
highway,
From clashing of states, and man's woful
strife
For fleeting rewards of the brief earth-
life,
With depths of humanity's pain unknown,
The flower of hope still by faith unborne,
The ploughman treads lightly his fur-
rowed row,
A song in his heart and his soul aglow.
For him the glad freedom of plain and
hill,
The bountiful harvests await his will;
The day's golden splendor, the starlit
night
His marvellous heritage, his birth-right,
While eventide's hush and morning's glad
psalm
Still the quick heart-beats, the spirit
calm,
And Nature, revealing her wondrous
gifts,
The year's grievous burdens in pity lifts.
The sweep of the seasons as on they roll
With Creation's great mysteries thrill his
soul—
When verdure awakes at the call of
Spring,
And birds to their mates tuneful matings
sing,
When shower the blossoms in fragrant
June,
When ripens the grain at the summer's
noon,
E'en then he's at peace with his lowly
lot,
All else save the Father's great love for-
got.
He welcomes the dawn, and hastens
away
To cheerfully, fearlessly meet the day;
A conqueror he, going forth in his power
To win a new triumph with ev'ry hour,
Too happily busy for discontent,
All thought and full strength on his labor
best,
As steadily onward he wends his way,
So bravely fulfilling his destiny.
The sheaves bound and garnered, the
year's toll o'er,
Serenely he enters his cottage door;
Fruition of labor and hope have taught
From duty well done highest good is
wrought—
His fireside's dear treasures he gathers
round,
In loving and serving reward is found;
And reverent gratitude fills his breast
As the nightwind's soft lullaby soothes to
rest.

Growing Up With One's Children.

The rearing of children is a profession just as truly as is teaching, doctoring, or farming. It is a profession more useful to the world than any other, and at the same time more exacting of wisdom and profound thought than any other. Motherhood is honored the world over—not simply because it is motherhood, but because it is wise and tender and self-sacrificing. The true mother studies her profession intelligently and earnestly. For such an one, the following little talk by Mrs. Biney, which I have clipped in part, from the Delineator, will be of great helpfulness:

I know a mother who with the advent of the first baby entered heartily into the idea that she had undertaken a long journey with the most mysteriously fascinating and wonderful of companions, who each day exacted rare tribute from her of patience and self-denial, but who in himself was such an ever-increasing source of delight, through his affection, growth and development, that she prayed in her soul the journey might last through all eternity. She was a wisely sympathetic mother; I never knew one more so. Again it is sympathy; sympathy first, last, and always sympathy. Not the sympathy that would shield the child, the boy or girl, the young man or woman from the experiences which must come and which, rightly met, give added strength, but the sympathy which comprehends, which inspires and encourages to fresh effort, if need be, to greater endurance.

The sympathetic mother who is growing with her children will start in simulated terror if her son of six, proudly mounted on a new hobby horse, shouts aloud, "Mother, you'd better get

out of the way quick. I can't hold this wild horse; he is going to run away." She knows all the technical and slang terms, descriptive of all the games that are the delight of boy-nature, and listens with rapt attention to a recital of a day's triumphs and mishaps. She is ready with fresh marble bags for the marble season and is famous for her taste and skill in the manufacture of kites, making the older children her allies in this work as soon as they are equal to it. She thinks baseball a truly wonderful game, and makes an enthusiastic audience of one when the season of tops is at its height. It must have been such a mother as this of whom a little boy, who was playing a "Wishing Game," said, "I wish my mama was my little twin brother, and next I wish we had a mama exactly like she is now."

Such a mother never speaks in her children's presence of the "awkward age," thereby increasing the painful self-consciousness of that period, nor does she draw attention to the fact that 14-year-old Johnnie has on the sixth new necktie in the course of two weeks. She calls him proudly "my son" at this time of his life, and with sweet diplomacy appears already to lean upon him and to advise with him concerning small matters that afford the opportunity for confidential talks. She wonders if some of his 12-year-old brother Paul's companions are all they should be; she thought she saw one of them covertly handing Paul a cigarette the other day; she hopes he will quietly look out for Paul and use his influence to convince him that it is not manly to smoke cigarettes or to use bad language; she is so glad she can depend on him to set Paul a good example, etc.

She has her quiet chats with Paul, too. She never scolds him for his little assumptions of manly airs, and does not say a great deal about the cigarette episode, but she sees that there is an illustrated lecture in the school he attends, on the subject, "Can a boy who has the cigarette habit become a successful competitor in the athletic sports when he enters college?" Nine chances out of ten Paul will respond to this appeal, when at his age he might not be influenced by the morality of the question.

This mother never laughs over childish misfortunes unless she is quite sure of an answering smile from the one aggrieved; she has by no means forgotten how real were her own childish disappointments, griefs, and humiliations. Indeed, it is her constant endeavor to keep in mind not only the memories of her own childhood, but the necessarily varying points of view of the children about her.

It is usually easier for a mother to grow up with her daughters than her sons, because she and her daughters have so much in common, and yet most of the great men in history acknowledge with deep gratitude a mother's influence.

There is one thing parents should should recognize: that their children are growing up and that their authority as such grows weaker every day, while their influence waxes stronger in proportion as their government has been wise, tender and just. Many a household is discordant because parents insist upon treating their grown sons and daughters as though they were still children. They issue commands, criticize, and find fault, forgetting apparently that the season for training is practically ended, and, were it not, such methods would result in more harm than good. I know a family in which are two daughters, both past twenty-five and a son in the thirties; they seldom, if ever, leave the house without being questioned as to where they are going, when they will return, why they go, why they wear such a garment instead of some other, wouldn't they best take umbrellas, are they warmly or coolly enough dressed, as the case may be, etc. It is scarcely surprising that in a burst of confidence one of the daughters should have said to me, "These endless questions, this treatment of me as though I were still a child will drive me to marry some man for whom I do not care, or send me out into the world against my pa-

rents' wishes to earn my own living." Personal liberty is such a precious possession, and life is so much sweeter and happier in households when there is mutual confidence and where trivial personal questions are regarded almost as a discourtesy.

Parents with the best intentions will frequently, in the presence of strangers, speak to their grown sons and daughters in such a manner as to cause them positive discomfort and embarrassment. Such parents have certainly not grown up with their children.

Truly to grow up with one's children it is essential to be rid of that mistaken but prevalent idea that children are personal property, an idea which on occasions voices itself in some such expression as "He is my child; I guess if I want to whip him I can," or in another instance, in response to a mild remonstrance that tea and coffee are not good for young children, "Well, I guess I ought to know what's good for my own children."

Apropos, a story was told me the other day of a woman who believed firmly in tea as a family beverage, but who did not take kindly to the idea of Mothers' Clubs; she said she knew all about bringing up children, that she ought to, she's had nineteen. "All living?" asked an amazed bystander. "All but fourteen," she replied calmly, "and they mostly died when they were teething."

It is the spirit in which we do our work that makes of it a joy or a tedious task. The grandest, farthest-reaching work that mothers and fathers can do is to grow up with their children, and there is nothing else in the world that they can do which will yield them such satisfaction, such happiness. If you have allowed other things to interfere with companionship with your children, turn over another leaf and honestly concentrate your attention upon them. You may see things which will shock, surprise and grieve you, and awaken a quick remorse for your past indifference (however unintentional it may have been), but you will also see much to love, and much that, under wise training, will blossom into character strong and true.

Children's Thoughts.

The world, as little children conceive it, is a very simple affair, which offers nothing for which they do not find a ready explanation.

Of the earth as a planet in the solar system they have no idea, and they give it little thought.

I have questioned a large number of them and found that the majority of them think of it as a flat, circular disc, covered by the sky in the shape of a mighty dome, from which the sun and the moon are suspended.

The moon makes a far stronger impression upon the childish mind than the sun, which they can not look at and accept as an action just like the air they breathe without feeling it.

The moon, on the other side, with its great silver disc gliding through the clouds, attracts their attention and works upon their imagination.

One child of 3 whom I asked, thought the moon was like a rubber toy balloon attached to a string by means of which it was pulled across the sky.

Another thought the moon had wings, while a little boy of 4 thought the moon and stars were pasted on the sky.

One little bambino thought that surely the moon was a great lantern which the good God hung out every night to illuminate the dark streets and roads.

I have met many children who thought that there were several moons—one for each street—and when they saw the moon in the first or last quarter they thought it had been broken and that the Lord had forgotten to mend it, while others thought it had been caught in a crack in the sky, like a mouse in a trap.

One little baby of 2 years told me the stars were sparks, while another quite poetically described them as "little bits of daylight, forgotten and left behind when the day went to sleep."

One little boy thought of the planetary system as a great family; the sun

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was the father, the moon the mother and the stars the children.

Nearly all children imagine that the sky, moon, and stars are close to the earth. Very small babies think they may even reach them by putting out their hands.

A little boy thought that the sky rested on the church steeple in his village, and another thought that by tying several ladders together you might easily reach it.

Children's ideas of atmospheric phenomena, as wind or rain, are not less curious and interesting. Many children I have found think that it is the trees which make the wind, as you create a draft with a fan.

Other children think of the winds as living beings of very mischievous character, who from sheer impertinence tear off their hats and disarrange their clothing, and who live in a great cave in the mountains.

One little boy told me that God made the lightning by turning on the gas and rubbing big bunches of matches together. Rain, he thought, came from a great tank concealed behind the clouds.

I know one little girl who told me that the snow was grains of sugar and bread falling down from Paradise.

A baby who for the first time saw the foam upon the waves of the ocean exclaimed: "Oh, mamma; what a lot of soap God is using when he washes his hands!"

A boy of six insisted that the mountains were constructed from bricks which giants had placed on top of one another.

All these strange ideas show that the little child, naturally inquisitive and willing to listen to explanations from adults, is at the same time always endeavoring to explain things in its own way, which in most cases is much more satisfactory and plausible to its own mind than those given by grown people.

In studying children, as I have done for years, it is interesting to see how closely their ideas follow the lines of ancient mythology on many points.

The evolution of the human race and of the single individual is surprisingly uniform.—Baltimore Weekly Sun.

Club Department

OFFICERS OF STATE FEDERATION OF WOMEN'S CLUBS.

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Our Club Roll.

- Mutual Improvement Club, Carbondale, Osage County (1896).
Give and Get Good Club, Berryton, Shawnee County (1902).
Woman's Literary Club, Osborne, Osborne County (1902).
Ladies' Reading Club, Darlington Township, Harvey County (1902).
Woman's Club, Legan, Phillips County (1902).
Domestic Science Club, Osage, Osage County (1883).
Ladies' Crescent Club, Tully, Rawlins County (1902).
Ladies' Social Society, No. 1, Minneapolis, Ottawa County (1883).
Ladies' Social Society, No. 2, Minneapolis, Ottawa County (1889).
Ladies' Social Society, No. 3, Minneapolis, Ottawa County (1891).
Ladies' Social Society, No. 4, Minneapolis, Ottawa County (1897).
Chalitsa Club, Highland Park, Shawnee County (1902).
Cultus Club, Phillipsburg, Phillips County (1902).
Litertae Club, Ford, Ford County (1903).
Sabean Club, Mission Center, Shawnee County, R. R. No. 2 (1899).
Star Valley Woman's Club, Iola, Allen County (1902).
West Side Forestry Club, Topeka, Shawnee County, R. R. No. — (1903).
Fortnight Club, Grant Township, Reno County (1903).
Progressive Society, Rosalia, Butler County (1903).
Pleasant Hour Club, Wakarusa Township, Douglas County.
The Lady Farmers' Institute, Marysville, Marshall County (1902).
The Woman's Progressive Club, Anthony, Harper County.
[All communications for the Club Department should be directed to Miss Ruth Cowgill, Editor Club Department.]

"When We Were Wed."

One of the contributors to the club department has sent us the following very entertaining description of something "new under the sun," in the way of club entertainment:

Our Marshall Club has just had a

splendid meeting; the topic was, "When were we wed." The president wore a gentleman's coat and silk hat, as bridegroom. Our hostess was arrayed as bride. As each guest (who wore either her wedding dress or some article she wore at her wedding) was about to ring the bell, the door suddenly opened and the astonished guest was greeted by the bowing bride and groom. Our club pianist struck up Mendelssohn's Wedding March, and with stately dignity the couple proceeded before the guest and escorted her to the room where she laid aside her wraps, when the members of the board and the bride and groom lined up for congratulations. The roll call—"When we were wed"—was responded to by each lady who told of her wedding.

One member, who can not sing a note, favored the club with a song, the pianist playing the accompaniment. The singer—who, however, did not sing—without a smile went through all the agony of a prima donna, but the song was sung by another member, who can sing but who was hidden. One of Riley's humorous poems was rendered in a charming manner.

"Yankee Doodle" was played on a coarse comb, which was followed by "The Repetition of the Tower of Babel," each of the seven ladies of the board declaiming in as many different languages, English, German, French, Swede, Welsh, Italian, and Latin.

MRS. TERRIE.

An Essay on the Horse.

The following remarkable essay on the horse is said to be from the pen of an Indian student: "The horse is a very noble quadruped, but when he is angry he will not do so. He is ridden on the spinal cord by the bridle, and sadly the driver places his foot on the stirrups and divides his lower limbs across the saddle and drives his animal to the meadow. He has four legs; two are on the front side and two are afterward. These are the weapons on which he runs. He also defends himself by extending these in the rear in a parallel direction towards his foe, but this he does only when he is in an aggravating mood. There is no animal like the horse. No sooner they see their guardian or master than they always cry for food, but it is always at the morning time. They have got tails, but not so long as the cow and such other like animals."

\$100 Reward \$100.

The readers of this paper will be pleased to learn that there is at least one dreaded disease that science has been able to cure in all its stages, and that is Catarrh. Hall's Catarrh Cure is the only positive cure known to the medical fraternity. Catarrh being a constitutional disease, requires a constitutional treatment. Hall's Catarrh Cure is taken internally, acting directly upon the blood and mucous surfaces of the system, thereby destroying the foundation of the disease, and giving the patient strength by building up the constitution and assisting nature in doing its work. The proprietors have so much faith in its curative powers, that they offer One Hundred Dollars for any case that it fails to cure. Send for list of testimonials. Address, F. J. CHENEY & CO., Toledo, O. Sold by druggists, 75c. Hall's family Pills are the best.

One Fare for the Round-Trip

Plus 25 cents, to Cleveland, Ohio, and return, via Nickel Plate Road, May 16, 17, and 18. Tickets good going date of sale and returning to and including June 10, by depositing same. Three Through Daily Express Trains to Fort Wayne, Cleveland, Erie, Buffalo, New York, Boston, and New England points, carrying vestibuled sleeping-cars. Meals served in Nickel Plate dining-cars, on American Club Meal Plan, ranging in price from 35 cents to \$1; also service A la Carte. Chicago Depot, La Salle and Van Buren Streets. No excess fare charged on any train on the Nickel Plate Road. Chicago City Ticket Offices, 111 Adams Street and Auditorium Annex. Phone entral 2057. (No. 8)

Homeseekers' Excursions.

One fare plus \$2.00 round trip rate via Chicago Great Western Railway from Kansas City to points in the following States: Idaho, Montana, Oregon, Washington, British Columbia, Assiniboia, Manitoba and Saskatchewan. Tickets on sale March 15 and April 5 and 19. For further information, apply to Geo. W. Lincoln, T. P. A., 7 West Ninth St., Kansas City, Mo.

The World's Fair.

In making your arrangements for the World's Fair at St. Louis, this summer, if you consider convenience and saving of time, you will take the Wabash Railroad, as it runs by and stops at its station at the entrance of the fair grounds, thus saving several miles run and return, and the inevitable jam at the big Union Station. By all means consider the advantages of the Wabash.



Miss Hapgood tells how she was cured of Fallopien and Ovarian Inflammation—and escaped an awful operation by using Lydia E. Pinkham's Vegetable Compound.

"DEAR MRS. PINKHAM:—I suffered for four years with what the doctors called Salpingitis (inflammation of the fallopian tubes) and ovaritis, which are most distressing and painful ailments, affecting all the surrounding parts, undermining the constitution, and sapping the life forces. If you had seen me a year ago, before I began taking Lydia E. Pinkham's Vegetable Compound, and had noticed the sunken eyes, sallow complexion, and general emaciated condition, and compared that person with me as I am today, robust, hearty and well, you would not wonder that I feel thankful to you and your wonderful medicine, which restored me to new life and health in five months, and saved me from an awful operation."—MISS IRENE HAPGOOD, 1022 Sandwich St., Windsor, Ont.

Ovaritis or inflammation of the ovaries or fallopian tubes which adjoin the ovaries may result from sudden stopping of the monthly flow, from inflammation of the womb, and many other causes. The slightest indication of trouble with the ovaries, indicated by dull throbbing pain in the side, accompanied by heat and shooting pains, should claim your instant attention. It will not cure itself, and a hospital operation, with all its terrors, may easily result from neglect.

"DEAR MRS. PINKHAM:—I can truly say that you have saved my life, and I cannot express my gratitude to you in words.

"Before I wrote to you telling how I felt, I had doctored for over two years steady and spent lots of money in medicine besides, but it all failed to do me any good. My menses did not appear in that time, and I suffered much pain. I would daily have fainting spells, headache, backache and bearing down pain, and was so weak that it was hard for me to do my work.

"I used your medicine and treatment as directed, and after taking three bottles of Lydia E. Pinkham's Vegetable Compound, menses appeared, my womb troubles left me, and I have been regular ever since. I used fourteen bottles of Lydia E. Pinkham's Vegetable Compound and Blood Purifier together, and am now restored to perfect health. Had it not been for you, I would have been in my grave.

"I will always recommend your wonderful remedies, and hope that these few lines may lead others who suffer as I did to try your remedies."—MRS. T. C. WILLADSEN, R. R. No. 1, Manning, Iowa.

Such unquestionable testimony proves the power of Lydia E. Pinkham's Vegetable Compound over diseases of women.

Women should remember that they are privileged to consult Mrs. Pinkham at Lynn, Mass., about their illness, entirely free.



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Crop Reports and the Markets.

(Continued from page 433.)

and the price goes lower and about the time it reaches the bottom, the lowest of the season, the farmer gets scared and sells for fear it will go still lower. And then," he continued, "I have often asked a neighbor how his growing wheat was coming on, and often he will say, 'Fine. Best prospect I ever had!' Then he will say, 'A good deal of the wheat in my neighborhood does not look right; too thin on the ground. It has a sickly appearance—may have fly in it.'"

He is all right, but it is the other fellows that are catching it and I am afraid it is so in a good many instances when townships and counties report on the condition. They do not like to be lacking and they report to the fullest extent and with the best of intentions, too. And I have known farmers to overestimate their own crops nearly half in a bragging way, which only acts as a boomerang later on in making lower prices.

Then, again, a great many think that \$1 per bushel in Kansas City is an outrageous, exorbitant price, which is not so. With the increased cost of production and high price of labor, this will allow the farmer no more than he ought to have, taking the risks and failures. And the advance in flour would be so small no one would feel it. If wheat would sell for \$1 year in and year out in Kansas City, it would benefit every one except the bears; and the people, as a rule, would have their pockets full of money; yet I suppose the supply and demand will control the price, but not always.

Shawnee County. M. F. TATMAN.

Our correspondent could hardly pay to Secretary Coburn a higher compliment than he does in saying that his disinterested estimates have a powerful effect on the market. Their influence is the result solely of their proved reliability. The KANSAS FARMER has taken interest in observing the care used to have the Kansas reports as accurate as it is possible to make them. Several thousand correspondents scattered throughout the State contribute the facts from their several localities. These are carefully studied individually and in comparison with each other. The sifting is done by experts of many years' experience. The object is to ascertain the truth as accurately as possible. These estimates of yield are not made until after the crop has been matured and harvested and thrashing has begun. When each year's crop has been disposed of and the amounts used for seed, for feeding animals, for milling and for shipping out of the State are summed up, the result comes reasonably near to the Coburn estimates of the crop.

This being true, the question turns upon the propriety of giving out at harvest this accurate information. On this point there are radical differences of opinion. The farmer needs this information in determining upon the disposition of his crop. If it were possible to impart the information to the farmer while keeping it from the speculator, the producer might reap some advantage of his more accurate knowledge. It is, however, manifestly impossible that so large a class of people as the farmers should keep so important a secret as this would be. If, then, the farmer is to have this information, it may as well be published. In no other way can the farmer be placed in possession of the knowledge he needs.

It may be thought by some, indeed it has been strongly suggested, that the information ought to be scaled down, making the statement of the crop come under the actual amount harvested. By this plan the farmer might be deceived. The self-deceived man suffers the worst of all deceptions. But would the speculators be deceived? They do not depend upon official reports alone. Their trade papers have weekly reports while the crop is maturing from every locality in the entire wheat-belt. They spend thousands of dollars every season to ascertain, for private guidance, the ex-

act facts as to the crops. The official report is but one of their many sources of information. To withhold the official report or to make it misleading would therefore place the farmer at a decided disadvantage in the market.

For wheat, the world is one market. Thus far, each year has produced enough to go around and there has been a surplus to carry over to the next year. If American farmers were misled into believing the world's crop much less than the actual amount produced, through wrong statements of the crop in Kansas, these American farmers would be likely to hold back their wheat. Consumers would turn to other wheat exporting countries and by a slight advance in price obtain their supplies by inducing countries willing to sell to sweep their bins a little closer than usual. A glut of the American market would be a natural consequence with prices corresponding to this condition.

Really the best policy is that of gathering and publishing honestly the fullest and most accurate information. The effect of this upon the market is, in the long run, more favorable than any other course to the honest producer and consumer. The speculator alone profits from distorted or suppressed information.

Kansas Crops Officially.

The Kansas Department of Agriculture, after a careful canvass of the situation, issued April 15 a report on the condition of the growing winter wheat in Kansas, based on the opinions of wheat-growers in every locality, millers, dealers, and elevators, especially close attention having been given to territory where the bulk of the crop is usually produced.

The wheat area of 1903 was returned by assessors as 5,911,906 acres; in December the growers estimated the sowing for this year's crop as 4 per cent less, or a total approximating 5,670,000 acres. Of this the consensus of opinion of correspondents' reports now is that but little in the properly wheat-growing territory, except probably in a half-dozen counties, seems such a failure that it will be plowed up, and the present average condition for the State, as a whole, the good with the bad, is 83.5 per cent, as against 97.8 in 1903, 74 in 1902, and 99.8 in 1901, at about the same dates. As is commonly known, the winter just past was exceedingly mild and the precipitation unusually scant. While the growing wheat in many sections is not advanced so far as it ordinarily is at the time of year, the plant is reported of good vitality and rapidly responding to the improved conditions following the recent quite general rains. In a majority of the counties the soil and weather conditions are now conducive to good growth and development. As a rule, the circumstances last fall were favorable for sowing and much of the promise in the present outlook is doubtless due in large measure to the saturated condition of the soil then. Nevertheless, in the western counties, mostly where wheat is not a main crop, many fields will be devoted to other crops.

In the so-called "wheat belt," where the larger areas are found, the plant promises well, barring local exceptions, as is the case also in the entire area to the eastward or extending over a trifle more than the eastern two-thirds of the State. There is some disquietude in quarters where rain has not been opportune and especially in instances where wheat was sown late. Reports suggest that April showers and sunshine may be expected to materially improve the prospects.

Of the 105 counties, 20 in the central third of the State, or Sumner, Barton, Rush, Reno, Ellis, McPherson, Rice, Stafford, Pawnee, Harper, Sedgwick, Kingman, Russell, Pratt, Ellsworth, Saline, Mitchell, Rooks, Osborne, and Dickinson, named in accordance with their rank in acreage, contain 56.7 per cent of the State's area. Painstaking analyses of the returns from these counties reveal a condition of the growing wheat averaging 84.8 per cent, on the basis of 100 as a good, satisfactory condition. The area of

these 20 counties, in addition to the 18 counties having successively the next largest acreages, or Harvey, Ottawa, Lincoln, Edwards, Cloud, Cowley, Marion, Phillips, Ness, Decatur, Graham, Norton, Rawlins, Clay, Smith, Ford, Barber, and Thomas respectively, constitute over 80 per cent of the Kansas wheat-field, and its average condition is 84 per cent, ranging from 100 per cent in Harvey County to 50 per cent in Decatur. The remaining 67 counties have less wheat area than was sown in the five counties of Sumner, Barton, Rush, Reno, and Ellis. In the strictly wheat-producing territory the condition of the growing wheat is regarded by correspondents as encouraging, but in a number of the counties in such district the soil is not in the most favorable condition for vigorous growth.

The following is a summary, by counties, of the present investigation, each county being worked out in detail and dealt with on its merits, irrespective of its neighbors:

Allen.—Slight damage by fly and freezing; small area plowed up; soil favorable for vigorous growth; condition 74.
Anderson.—Some will be plowed up; prospects good; condition 88.
Atchison.—Excellent; too wet in some fields; condition 87.
Barber.—"Prospect has not been so good since 1891." None plowed up; condition 95.
Barton.—No injury by fly, but perhaps 5 per cent will be plowed up, owing to lack of moisture. Small growth in many fields; in others more advanced and prosperous but rain would be beneficial to all; condition 78.
Bourbon.—Slight damage; 10 per cent may be plowed up; soil favorable; condition 79.
Brown.—"Wheat never looked better at the time of year." Sufficient moisture; condition 94.
Butler.—Good stand; soil very favorable; condition 94.
Chase.—Small area. "Improvement has been wonderful in the past two weeks;" condition 90.
Chautauqua.—Growth not as large as in some seasons, but vigorous; soil excellent; condition 90.
Cherokee.—Stand good; no damage; moisture plentiful; condition 85.
Cheyenne.—Too dry; possibly 20 per cent plowed up; condition 60.
Clark.—Soil unfavorable; considerable will be devoted to other crops; condition 82.
Clay.—"Good rains and plenty of moisture," but damage by fly amounts possibly to 10 per cent; some will be plowed up; soil in excellent tilth; condition 88.
Cloud.—Plant late and small but promising well; soil excellent; condition 87.
Coffey.—Possibly 5 per cent plowed up, mostly late sown; plenty of moisture now; condition 80.
Comanche.—Ground too dry; condition 76.
Cowley.—Slight damage but none plowed up; soil unanimously pronounced favorable for vigorous growth; condition 87.
Crawford.—No damage; soil in good fix; condition 100.
Decatur.—Over 50 per cent estimated as likely to be plowed up on account of dry weather. Of the remainder, many fields in localities visited by showers are showing much improvement as a result.
Dickinson.—Fly is mentioned, but damage is slight from any cause. Stand good and soil favorable. "Crop in better condition than for the past three or four years at the same time;" condition 88.
Doniphan.—No damage; plenty of moisture; condition 100.
Douglas.—Slight damage; none plowed up; condition 89.
Edwards.—Damaged, some think, 10 per cent, and a like area will probably be plowed up; soil is too dry; condition 72.
Elk.—No damage; outlook promising; condition 87.
Ellis.—Ten per cent or more will likely be plowed up; soil too dry; condition 75.
Ellsworth.—Looks well, but ground is a little too dry. "Rain in ten days means 100 per cent;" present condition 86.
Finney.—In many fields not up yet, and reports indicate that the whole area probably will be devoted to other crops.
Ford.—At least 10 per cent will be abandoned; soil not favorable; condition 65.
Franklin.—Growth backward but plant healthy; no damage; soil in excellent fix; condition 92.
Geary.—"Very favorable;" no damage; condition 92.
Gove.—Considerable injury, amounting possibly to 50 per cent, which may be plowed up; moisture lacking.
Graham.—Small area plowed up; plenty of moisture; condition 75.
Grant.—No acreage.
Gray.—Weather and soil unsatisfactory; condition 65.
Greeley.—But little wheat sown.
Greenwood.—Some damage by fly but little will be turned under; flattering outlook; condition 96.
Hamilton.—The small area sown is almost entirely abandoned.
Harper.—"The best prospect we ever had—could scarcely be improved upon;" no damage; plenty of moisture; condition 96.
Harvey.—Reporters say: "Prospect much better than one year ago;" "Never saw it finer;" "Could not look better;" fly mentioned in some localities but little damage done; soil favorable; condition 100.
Haskell.—Too dry; mostly abandoned.
Jackson.—"Never saw wheat look better;" condition 90.
Jefferson.—No damage; soil favorable; condition 95.
Jewell.—No damaged fields; soil excellent; condition 91.

Johnson.—No damage; sufficient moisture; condition 91.

Keary.—Area limited; conditions unfavorable.

Kingman.—Excellent; soil favorable. "Wheat never looked finer at the time of year;" condition 95.

Kiowa.—Slight damage; scarcely any will be plowed up; condition 90.

Labette.—No damage; excellent prospect; ground moist; condition 90.

Lane.—About one-fourth will be plowed up on account of dry weather; soil is not favorable; condition 60.

Leavenworth.—Soil in good tilth; plenty of moisture; condition 98.

Lincoln.—Slight damage, and a small area may be plowed up on account of too late sowing; soil fair; condition 85.

Linn.—Soil and weather favorable at present; possibly 10 per cent will be plowed up; condition 75.

Logan.—Very backward; in many fields not up.

Lyon.—No damage; soil favorable; condition 95.

Marion.—Slight damage by fly in few localities, but very little will be plowed under; plenty of moisture; outlook excellent; soil and weather unanimously reported favorable; condition 90.

Marshall.—No damage; ground wet; condition 85.

McPherson.—Fly in some localities, but little damage done; 5 per cent may be plowed under; one reporter says, "Best prospect for several years," although moisture is needed; condition 83.

Meade.—Over 50 per cent abandoned; soil unfavorable; condition 50.

Miami.—A slight area will be plowed under; soil full of moisture; condition 83.

Mitchell.—Little damaged; 5 per cent may be plowed up; too dry in some localities; condition 84.

Montgomery.—Slight damage by fly, but very little plowed up; growth favorable; plenty of moisture; condition 84.

Morris.—Ground sufficiently moist; condition 90.

Morton.—But little wheat sown.

Nemaha.—No drawbacks discernible; ground saturated; condition 97.

Neosho.—Prospect excellent; "Never better;" abundant moisture; condition 95.

Ness.—Slight damage; plant backward but apparently healthy; soil too dry; condition 75.

Norton.—Growth not as large as is usual at the time of year; some just coming up; recent rains have improved prospects; condition 75.

Osage.—No damage perceptible; ground wet; condition 95.

Osborne.—"Early wheat on well-prepared ground never looked better," but that put in on stubble seems debilitated, but not dead; ground a little too dry; 10 to 15 per cent may be plowed up; condition 77.

Ottawa.—No serious injury; small but vigorous growth; soil fair; condition 85.

Pawnee.—Some damage by dry weather; between 10 and 15 per cent likely to be plowed up; soil too dry for vigorous growth; condition 70.

Phillips.—Mostly sown late, and growth small; possibly 10 per cent will be plowed up; soil fair; condition 78.

Pottawatomie.—No damage; prospects flattering; condition 95.

Pratt.—Slight damage by dry weather, but little will be turned under; soil not the best; moisture is needed; condition 82.

Rawlins.—Possibly 25 per cent will be abandoned owing to lack of moisture during the winter; some just coming up; outlook not promising except in few localities.

Reno.—No damage; growth not as large as in some seasons, but vigorous; soil and weather favorable; "Prospects are O. K. for a big crop;" condition 95.

Republic.—Promising well; ground moist; condition 88.

Rice.—Slight damage by fly and insufficient moisture; some will likely be plowed under; ground too dry; opinions at variance on condition, but average 80.

Riley.—Weather and soil propitious; "Wheat seldom looked better."

Rooks.—Very backward; some just coming up, although the early sown is reported as prospering; 25 per cent may be abandoned owing to lack of opportune moisture; condition 78.

Rush.—Late sown and of small growth, but generally of good vitality; soil too dry; condition 73.

Russell.—Small area may be plowed up; mostly "growing nicely," however; soil fair; condition 84.

Saline.—Slight damage by fly, but little plowed up; everything favorable for vigorous growth; "Plenty of moisture;" "Best prospect on an average for years;" condition 88.

Scott.—Condition during the winter unfavorable; outlook unpromising; area small.

Sedgwick.—"Never looked better;" "Couldn't be more favorable;" everything promising; ground wet; condition 95.

Seward.—But little wheat sown.

Shawnee.—No damage; growth small last fall, but prospering now; condition 80.

Sheridan.—One-half estimated as likely to be plowed up, owing to dry weather and high winds; present soil-conditions only fair.

Sherman.—Small area and mostly abandoned.

Smith.—Between 5 and 10 per cent may be plowed up; plant is quite backward, but promises well; soil and weather favorable; condition 84.

Stafford.—Surface soil is dry and high winds have damaged some fields; possibly 5 per cent will be plowed up; growth has been small, but vitality of plant seems O. K.; soil not favorable; condition 84.

Stanton.—No acreage.

Stevens.—But little wheat sown.

Sumner.—Damaged by fly possibly 5 per cent, but little, if any, will be turned under; outlook seldom more favorable than now; "Could not be better at this time;" abundant moisture; condition 95.

Thomas.—A small area may be plowed up; recent rains opportune; condition 65.

Trego.—Possibly one-fourth will be turned under; soil favorable now; condition 78.

Wabunsee.—"Never better;" growing very fast;" ground moist; condition 98.

Wallace.—Acreage small.

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Washington.—No damage; prospects excellent; condition 85.
 Wichita.—Soil not favorable; condition 75.
 Willson.—No damage; promising outlook; ground wet; condition 86.
 Woodson.—Everything favorable; condition 88.
 Wyandotte.—Prospects never promised more; no damage; ground full of moisture; condition 100.

Crop Conditions on April 1, 1904.

The monthly report of the Chief of the Bureau of Statistics of the Department of Agriculture shows the average condition of winter wheat on April 1 to have been 76.5, against 97.3 on April 1, 1903, 78.7 at the corresponding date in 1902, and 84.1 the mean of the April averages of the last ten years.

The average condition of winter rye on April 1 was 82.3, against 97.9 on April 1, 1903, 85.4 at the corresponding date in 1902, and 89.1 the mean of the April averages of the last ten years.

The following table shows the averages of condition of winter wheat and winter rye on April 1, the corresponding averages one year ago, and the mean of the corresponding averages of the last ten years:

States and Territories	Winter wheat.		Winter rye.	
	1904.	1903.	1904.	1903.
Connecticut	74	99	97	101
New York	74	99	97	101
New Jersey	77	99	89	98
Pennsylvania	74	100	87	81
Delaware	68	100	89	91
Maryland	71	99	88	90
Virginia	69	103	85	74
North Carolina	84	100	86	80
South Carolina	82	93	88	91
Georgia	82	99	87	91
Alabama	83	99	87	86
Mississippi	85	95	84	85
Texas	68	94	82	62
Arkansas	80	92	87	86
Tennessee	73	98	82	80
West Virginia	63	101	84	67
Kentucky	64	100	84	68
Ohio	66	97	78	71
Michigan	78	95	80	82
Indiana	66	97	79	80
Illinois	83	98	81	90
Wisconsin	90	94	83	81
Iowa	83	95	82	81
Missouri	81	95	84	87
Kansas	78	97	83	75
Nebraska	81	96	89	81
Idaho	98	95	80	82
Washington	95	90	92	81
Oregon	96	90	94	96
California	92	98	87	94
Oklahoma	66	100	90	66
Indian Ter.	72	98	81	81
United States	76.5	97.3	84.1	82.3

BLOCKS OF TWO.

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

Special to Our Old Subscribers Only.

Any of our old subscribers who will send us two NEW SUBSCRIPTIONS at the introductory rate of fifty cents each, during April, 1904, will receive for their trouble one copy of the KANSAS FARMER'S New Wall Atlas, descriptions of which have appeared in these columns from time to time; or we will send any one of the following publications as the old subscribers may choose, viz: "Woman's Magazine," "Western Swine Breeder," "Vicks' Family Magazine," "Blooded Stock," "Poultry Gazette," "Dairy and Creamery," or "Wool Markets and Sheep."

No Pits for These Scales.

It is not so many years ago when all scales used for weighing heavy loads had to have a pit dug for them, and in this pit the working parts of the scale were placed. This pit was a source of expense and trouble. It cost for digging, it had to be walled with brick or stone, and it was a place where the water gathered in summer and ice in winter, much to the detriment of the scale. The invention of the "Pitless Scale" by McDonald Bros., of Pleasant Hill, Mo., has changed all this. This concern saw the expense and annoyance that the old-style scale caused the farmers and others, and perfected a scale which is set right on the surface of the ground. Having the same accuracy and durability that any scale possesses they yet save the purchaser a large expense. The instant favor they met with led to their imitation, and McDonald Bros. now have an important case pending in the courts against makers who have infringed their patents.

The Veterinarian.

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

Influenza or Distemper.—About a month ago my mare commenced running at the nose. It discharged for about a week and then ceased, but she got sore and stiff, and will not eat. She can not get her head down within two feet of the ground. The muscles of her shoulders jerk and her breast seems to be sinking away. C. R. F. Palmer, Kans.

Answer.—I think your mare had an attack of either influenza or distemper and that the disease has settled in the front feet or chest. I am unable to tell from your description where. It is apt to be serious and I would advise you to have a good veterinarian examine her. If she is shod forward, pull off her shoes and if her feet are hot and dry, poultice them. If possible, get her to eat a thin mash or gruel. It may be that her lungs are affected but this would be shown by labored breathing or coughing. I would not advise you to drench her, if there is any indication of the lung trouble. Bed the horse well and induce her to lie down if possible. A heaping teaspoonful of saltpeter in the drinking water twice daily would be good if she will drink it.

Sick Cattle.—There is a disease among our cattle that no one seems to understand. There is a swelling beneath the lower jaw. It contains a watery, jelly-like substance. It does not seem to keep them from eating, but seems to make them weak and poor. The swelling may go down for a day or two but returns. I have lost several head. D. K. W. Dillwyn, Kans.

Answer.—The condition you describe is not any special disease but is a dropsical condition caused by a weak circulation. It occurs with practically all debilitating diseases in cattle. Particularly where they are suffering from a lack of food. I am inclined to think that with good, nutritious food the disease, or rather these symptoms, will disappear.

A Lame Pony.—I have a driving pony that is lame in the pastern joint. It swells and becomes very lame when driven. Have been using a liniment and giving rest, but when driven the lameness reappears. What can I do for her? L. N. M. Buffalo, Kans.

Answer.—You do not give any history as to how long she has been lame. If it is recent I would advise you to examine her foot very thoroughly to see that she has not been pricked with a nail or injury to the foot, as the pastern often swells when this is the case. If the lameness is located at the pastern point, it is either caused by an injury or a ring-bone is forming. If it is an injury, you must give her rest and use liniments with plenty of hand-rubbing or light blisters until she is thoroughly cured. If it is a ring-bone she will probably have to be fired.

Ailing Mare.—I have a fine 6-year-old mare that was bred two years ago but she lost her colt in the fall. Since then she has been subject to sick spells. She is in good condition when sick she lies down frequently and looks around toward her right side. She sweats a little but does not suffer severe pain. Some one said her kidneys were affected. What can I do for her? S. M. L. Richland, Kans.

Answer.—I do not think it is her kidneys as diseases of the urinary system in horses are very rare. I think

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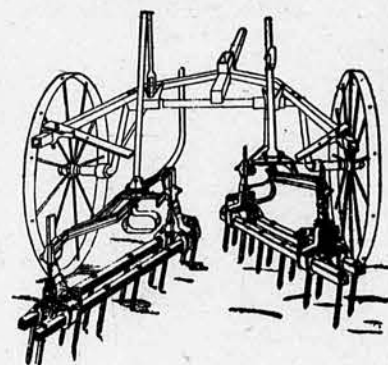
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the trouble is either indigestion or a disease of the uterus. You should have her examined thoroughly to be sure that the generative organs are all right. For the indigestion, dieting will give the best results. Feed her regularly and avoid overfeeding, particularly when she is warm or tired. Oats and bran with a little corn-chop for a grain ration will be good. Fresh grass would also be excellent. During the attack an ounce of essence of Jamaica in some hot water as a drench will probably give relief. N. S. Mayo.

The Business Farmer.

It is generally conceded to-day that the successful farmer is the business farmer, the one who runs his farm on strictly business principles. He keeps careful account each year of what every department has cost him and what returns it has brought, and if the balance is not on the right side he immediately investigates. If the dairy department, for instance, does not pay he locates the leak. It may be that he has not been feeding his cattle to secure the greatest amount of butter-fat in the cream, so he immediately proceeds to remedy this defect. Perhaps he has not secured the net profit which the size of his crops warranted him in expecting. This may be due to the fact that labor cost him too much or that his binder was old or too flimsy to do the work quickly and thoroughly. In the latter case he needs a new machine and the business farmer immediately proceeds to buy a Deering binder, because it is constructed to give satisfaction to the farmer. Deering harvesting machines make money for the farmer because they are durable and wear well, and consequently require few repairs, and because they are constructed on principles that are mechanically correct. Deering Ideal machines are known the world over for these sterling qualities, and they are an essential part of the farm equipment of every practical farmer.

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In the Dairy.

How to Milk a Cow.

The proof of the pudding is said to be in the eating, and the proof of the value of the cow is in the quality and quantity of the milk that she turns out. Yet we believe that her true value may not be known, or at least may be considerably lessened by improper milking. If a man comes to you to hire out, and you ask him if he is a good milker, quite naturally he will say "Yes," and yet good milkers are scarce even among the bosses themselves. Milking is one of the most important jobs on the farm, and it is a never-ending one; 365 days in the year, and an extra one this year for good measure. As the dairyman's income is so largely dependent upon the amount of milk he makes, the operation of milking ought to receive more attention than it does. The hands and clothes of the milker should be clean and free from



FIG. 1. PROPER POSITION IN MILKING.

the dust that accumulates upon garments while feeding hay and grain, which, if not removed, is quite likely to work into the pail while milking. If the cows are kept in a cleanly manner, and well bedded with rather coarse litter, such as cut straw, bog hay or shavings, they will be reasonably clean. We do not like sawdust for bedding (although sometimes we have to use it), especially frozen green sawdust which will chill the cow that lies upon it, and sticks all over her body ready to fall into the pail unless the cow is very carefully brushed.

When sitting down at the cow do so gently. Hitting her with the corner of your stool and yelling, "Get over there, you old rip," may not be understood literally by the cow, but the impression you have left in her head as well as upon her hips will not make the cow "fall all over herself," as the boys say, to give you an extra quantity of high-quality milk. Rub the udder gently for ten seconds to remove any



FIG. 2. HOW NOT TO MILK.

dust, either with the hand or a damp cloth, which will take up any dust, but do not use a wet rag. Before starting to milk, if the cow is not a hard one, work the milk to coming into the teats, so that you can start with a full stream. If the cow is a hard milker omit the latter, as she will start more easily before the teats are pressed full. See that your finger nails are short, so that in no way will they irritate the cow.

Figure 1 shows what we believe to be the right position while milking. Notice that the pail is directly under the udder and is held perfectly level. The milker can draw a full stream directly downward without pulling or twisting the teats or udder. If the cow lifts her foot, the left arm is right there to protect the pail. Figure 2

shows one incorrect position while milking. The milker is too far away from the cow, so that the pail must be held at an angle, and if the cow lifts her foot but a little it will hit the pail with the usual result. The milker



FIG. 3. THUMB AND FINGER MILKING.

must pull hard and sideways to get the milk into the pail and you can generally find considerable wasted milk upon the outside of the pail, the milker's trousers and on his boots. Figure 3 is another incorrect position. The milker uses only one finger and thumb, which he pulls over the cow's teat. He is quite apt to have the filthy habit of dipping his fingers in the pail and wetting the teat. Do not tolerate this at all. Milking can be done more easily and better with the dry hand. We usually milk crossways; that is, one hand on opposite corner teats. This is not so tiresome a way as where both hands milk the two nearest and the two farthest teats at the same time, as it does not tire the arms so much when both are not in exactly the same position. When changing from one teat to another do so gently. We have seen many cows disturbed by a sudden, rather violent change from one teat to another. Milk a full stream as



FIG. 4. STRIPPING THE COW.

long as possible, and do not strip, strip, as it is easy to make a stripper by improper milking. As soon as you have all that will come with the full hand stream, a few seconds' work on each teat as in figure 4 will complete the job. Remember that the last milk from the cow is much the richest, and often has ten times as much fat as in the first few streams down. Study your cow while milking, and note the form of the best cows. It will make milking a much more interesting job. —H. C. Manchester, in Rural New Yorker.

World's Fair Butter.

EDITOR KANSAS FARMER:—The second scoring of butter in the World's Fair tests took place in Chicago last month. These tests are conducted by the National Butter-makers' Association, and the quality of the butter at this scoring was decidedly better than the one early in the winter. All shipments of butter from this on will be made to St. Louis, where the markings will take place under the same system as those conducted at Chicago.

For grass-butter, four calls are to be made, the last one in October. Competition in these entries are for the World's Fair gold, silver, and bronze medals, the championship cup and prizes to be awarded at the National Convention to be held in St. Louis in October. The butter in the last scoring might be ranged in four classes, as follows: The first class was butter that showed overripe cream, rancidity and very unclean stable conditions. A great percentage of this class of butter, according to the method-blank, was made of cream that was deliv-

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ered to the creamery only once or twice a week and was spoiled before it reached the butter-maker. The next class of butter had an unclean flavor which indicated that it was caused by unclean cans, or possibly due to not washing the hand-separator after each skimming. The report says, "There was a foul smell to this butter." The third class of butter was of a clean flavor, but it did not possess the very nice, rich, creamy flavor; the flavor was somewhat coarse but quite good—butter that would score 93 and 94 points. The fourth class came a little nearer perfection—nice and clean, high, rich, creamy flavor. The methods of making these last two classes of butter were very nearly alike, and with a few exceptions were very good; such butter can only be produced by having good, clean milk to begin with. There were over 200 contestants, largely from Minnesota, Wisconsin, and Iowa. Much of this butter scored as low as 90 and 91. The highest Kansas score was 93½ to W. C. Wolcott, Tonganoxie. A few scores went above 5, Minnesota and Iowa were credited with the two highest, 98. The general average was about 93. It is hoped that Kansas butter-makers will take more interest in the coming tests, and secure some of the valuable medals. Those wishing to enter should write E. Sudendorf, 3831 Windsor Palace, St. Louis, Mo. A. E. JONES.

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Insect Bulletins for Distribution by the University of Kansas. Among the many publications issued for the benefit of the agriculturist, the University of Kansas offers from its department of entomology a number of bulletins on subjects particularly helpful to every progressive farmer in the State. Copies are furnished free on request, excepting postage if wanted by mail. If this kind of literature is profitable to the farmer who thereby learns of the results of investigation on many important questions and applies modern methods for combating insect ravages, the work of preparation and the expense of printing are amply repaid to the State by improved agriculture gained from better and surer crops. While the results of much study in dealing with insect friends and foes is generously contributed to these bulletins with unselfish purpose, the credit belongs to Professors Snow, Kellogg, and Hunter who have worked untiringly in their efforts for many years. Following is a list of the publications which can be furnished. A copy of any number will be mailed, as long as the supply lasts, to any applicant who encloses stamps for the required postage. The first six relate to contagious diseases of the chinch-bug:

1. First Annual Report, 1891, postage, 10 cents.
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 4. Fourth Annual Report, 1894, postage, 2 cents.
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 7. Common Injurious Insects of Kansas; postage, 5 cents.
 8. The More Injurious Grasshoppers of Kansas; postage, 1 cent.
 9. Scale-insects Injurious to Orchards; postage, 2 cents.
 10. Alfalfa, Grasshoppers, Bees—Their Relationship; postage, 7 cents.
 11. The Honey-bee and Its Food-plants in Kansas; postage, 5 cents.
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The Poultry Yard.

CONDUCTED BY THOMAS OWEN.

Cold-Storage for Eggs.

EDITOR KANSAS FARMER:—Please publish in your valuable paper, the KANSAS FARMER, information regarding the treatment of eggs in cold-storage.

D. R. KEITH.
Bourbon County.
Answer.—The treatment of eggs in cold-storage is very simple. Keep them at a temperature of 45° and turn them two or three times a week. In large cities the storage companies take the eggs and attend to them properly for so much per case per month. If you want to run a small plant yourself, the above method is all that is necessary. The eggs must be perfectly fresh when laid away, as nothing will keep a bad egg from getting worse.

Plymouth Rock Rivalry.

EDITOR KANSAS FARMER:—Your issue of March 24 contains a letter from Mrs. Marvin, giving her experience with Barred Rocks and Brown Leghorns as to laying qualities. Since she gave the amount received and the number of hens, I could not but compare it with the record of my own Barred Rocks. I have 56 hens, and during the month of February I sold \$6.70 worth of eggs, and during the week from the 13th to 20th, I sold 12½ dozen at 22 cents, or \$2.75 worth.

There are 35 old hens in the flock, nearly all of them being over 2 years old. At that age a hen is said to lay a smaller number of eggs. They, too, have a good, warm house, with a bran mash on very cold mornings but no poultry food. So I can not agree with the letter of February 25 or the one of March 24.

During the months from November 1 to March 1, I sold \$14.08 worth of eggs, or 70½ dozen, besides setting 100 eggs during the month of February.

Mrs. M. H. JOHNSON.
Butler County.

Begining of Roup.

EDITOR KANSAS FARMER:—My hens have developed a disease new to me, and of which I have seen no description. One side of head (usually the right side) swells much as in roup, the eye is affected and when they recover, the sight of the eye is gone. There is no discharge from nostril, no sore throat, and no foul smell, as in roup. The side of the head swells, the eye is closed and watery, while the general health of the hen seems little affected, but in every case the sight of the eye is lost. What is the cause of, and possible remedy for the disease?

J. R. M.
Reno County.
Answer.—The disease you mention is probably cold in the eye and head of the fowl, caused by a draught striking the chicken's head while roosting. As a cold is but the precursor of roup, it soon gets into the acute form. Chickens often lose their eyesight from roup. In the earlier stages of the disease, the eyes and head should be cleansed frequently with hydrogen dioxide and water in equal parts. Later on, take a teaspoonful of sweet oil and one of kerosene oil and two drops of carbolic acid. Squirt a part of this mixture into the eye of the fowl several times a day and a cure will usually follow.

Keeping Accounts with the Poultry.

EDITOR KANSAS FARMER:—I have been watching the poultry columns closely since writing you on February 11, and am much gratified to see the interest the farmers' wives are taking in the poultry department. Some—in fact, all—the reports are, I believe, better than the one I sent in. I did not intend to especially denounce the Plymouth Rocks but only to tell you what I had done with a flock of chickens that had not been paying.

If you will have patience with me, I will tell you how I am keeping strict account with my hens, charging them with their board and crediting them with all eggs laid. In the fall I got an old, large-sized calendar and laid it on



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a table with the blank side up and with ruler and pencil drew lines enough to make 13 spaces crosswise, then enough lengthwise to make 31 spaces. At the top, directly over the 31 spaces, I put the dates, and at the left side I put the months. I have a pencil handy and every night I write the number of eggs in the space indicating the month and day of month. Below the spaces I charge the food. I also mark the price of eggs just under the space, so I know just what my eggs have brought. I credit my hens with what they lay and not just what I sell, for I do not think that is fair to biddy. For the four months ending March 31, my sixty hens laid \$25.17 worth of eggs at the lowest market price, and it cost \$13 to feed them. That is not much but it was the worst time of the year in every way, and feed was extraordinarily high last winter. Now, to take that as a basis of calculation, I would clear over 50 cents a year on each hen just from eggs; and I calculate if I had a flock of two hundred hens, I could sell to private customers and get from 2 to 5 cents more by the dozen.

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Gossip About Stock.

(Continued from page 439.)

weighing 1,000 to 1,100 pounds, which are such excellent individuals that each will surely add laurels to those won by their sires and dams. Mr. James Robertson, who purchased the six top cows at the Watson-Emporia dispersion sale, in taking his purchases home to his ranch north of Strong City, Kans., had a chance to compare the tops of Mr. Watson's herd with the herd of Mr. Baker, with the result that he purchased a bull of Mr. Baker to head the herd with. And breeder wishing to get a herd-header, should write or call on Mr. Baker at Strong City, Kans.

We add to our Shorthorn breeders' cards that of Mr. Oscar Duehn, Clements, Kans., whose father many years ago established a fine herd in Doniphan County, Kans. During the years of falling health of the elder Duehn, the registering of the increase was neglected, and upon his death, seven years ago, a son took the herd for two years; five years ago this herd was divided and Oscar Duehn brought his share to Clements, and although the very best of registered bulls have been kept at the head of the herd, Oscar found himself the owner of a herd of Shorthorns not eligible for registration, which now consists of 75 cows and heifers, besides the calves, of which 35 are now born. Hence Mr. Duehn purchased two of the choicest registered cows, at sales, one of Rose of Sharon strain and one of the Bates strain, which while good individuals, yet are excelled by many of their unregistered sisters of the herd. At the head of his herd is Banker 129324, bred by John McCoy, Sabetha, Kans., and a direct line from such sires as Imperial Knight, London Duke, and Alexander, and such dams as Victoria, Nelly Bly, Jenny Lind, and Imported Rose Mary. Banker is one of the best bulls in the State, 7 years old and weighing about 2,300 pounds, large bone, short legs, deep, thick body, and long, wide, and very thick in the loin region. While Mr. Duehn will dispose of any of his cows and heifers at any time, he at the present time has three 2-year-old unregistered bulls of 1,200 pounds weight and 7 yearling bulls of 800 pounds weight. Each of these young bulls is a grand good individual fit to head any herd of Shorthorns, if his ancestors had only been kept registered. So if any of the patrons of the Farmer wish an extra good bull to grade up herds with, or to go with a herd upon the range they should at once write Mr. Oscar Duehn at Clements, Kans.

A member of the Kansas Farmer's field force, made a visit to the Clover Hill Ranch of the Blackshire Bros., near Clements, Kans., last week, which ranch claims the credit of the planting of the first alfalfa, and the establishment of the first Galloway herd in the State of Kansas. J. R. Blackshire, the father of the brothers, and former owner of the ranch, first saw alfalfa in California in 1877, and at once purchased sufficient seed at \$22.50 per bushel in San Francisco to seed ten acres of ground, and thus started the growth of alfalfa, in Kansas, of which there are now 900 acres in first-class condition on the ranch of 4,650 acres. As a proof of the hardness of the alfalfa plant, this ranch has one 60-acre field seeded twenty-six years ago, from which for twenty-five years four crops of hay or three crops of hay and one of seed have been taken every year, without manuring or any cultivation of the field except that for the past four years the field has been well harrowed early each spring, and this field has always been pastured after the last crop was taken off each fall. This ranch's Galloway herd was started in 1879 by the importation of four bulls and three cows from Canada, and which has been continually freshened by the purchase of the best of the breed for herd-bulls. In 1903 three bulls were purchased, one from Bird and two from Wilde of Missouri, and they now have on hand 25 yearling and 2-year-old bulls, which have been contracted for and will be shipped about April 20 to Midland, Texas, from which point they will go out to head herds upon the Texas range. For a few years past the ranch has bred coach- and saddle-horses and mules, and while at the ranch, the fieldman saw its entire working force engaged in breaking and fitting for the June market 40 head of coachers 4 and 5 years old.

While the claim of introduction of the Galloway breed to the State of Kansas is made by a noted Chase County Ranch, yet Mr. Geo. L. Barber, of Saffordville, Kans., a young man just entering the ranks of Kansas breeders, in his Buckeye Herd of Galloways, near the head of Buckley Creek, enters the list full-armed and well-equipped with as fine, large, deep, thick, long-bodied and as fine, long-haired animals of this breed as can be found anywhere. The excellence of Mr. Barber's herd consists in their large size, long, blocky bodies, and fine storm coats. At the head of the herd stands Kaylor 15613, sired by Pride of Chillicothe and he by Salvator, with Lady Byrd and Garnett's Beauty for the dams. Among the herd cows are Madge of Nashua 18022, Rose of The Oaks 3d 8787, and many others all of great excellence. Mr. Barber has one 2-year-old and five 16-months-old registered bulls of this royal breeding for sale at private treaty, and no friend of the Galloways should lose the opportunity of securing an A No. 1 herd-header from Mr. Barber if he needs one. While Mr. Barber takes pride in his Galloways Mrs. Barber takes greater pride in her three yards of Barred Plymouth Rock chickens, which she handles as well if not better than Mr. Barber does his cattle. Just before the 1904 State Poultry Show Mrs. Barber had an Emporia fancier, in great demand as a poultry show judge, score about a dozen coops for her, which she intended entering at Topeka, with the result that the score cards gave the occupants of the pens from 92 1/2 to 94 points; but a dangerous sickness of Mrs. Barber occupied the attention of all the members of the family, and the State Poultry Show was forgotten. Her birds are especially large for Barred Rocks. Last fall when she closed out her aged hens she sold fifty in Emporia that averaged over 10 pounds per bird, and one 10-months-old cockerell tipped the scales for more than 12 pounds. She can now supply eggs from these superb birds at \$1.50 per 15 to those who apply early.

WEEKLY WEATHER CROP BULLETIN.

Weekly weather crop bulletin for the Kansas Weather Service, for the week ending April 18, 1904, prepared by T. B. Jennings, Station Director.

GENERAL CONDITIONS.

The week was cold and dry; it was colder than the previous week and much colder than the first week of the month. There was absolutely no precipitation reported except a trace at Minneapolis.

RESULTS.

EASTERN DIVISION.

Wheat has made a good growth in the southern and many of the central counties and is doing well in most of the northern. Oat-sowing is about finished in the north. Oats are up in the southern and central counties but growth has been slow this week on account of the cold weather. Corn-planting is nearly finished in the southern counties and is becoming more general in the central counties; corn is coming up in the south, but owing to the cold weather germinations and growth have been slow. Grass has made fair progress in the extreme south but has not done so well in the central and northern counties. The old alfalfa is doing well, but the alfalfa sown in fall is not doing well, much of it having been winter-killed. Peaches are in bloom in the central counties and budding well in Marshall County. Plums are in blossom and apples promising in the central counties; strawberries are growing well in Chautauqua County. Potatoes are coming up in Wilson County. The ground is in very good condition.

Allen County.—Too cold; some corn planted; wheat, oats, flax, and grass need warm rains. Anderson.—Corn-planting quite general but weather too cold for germination; fruit prospects less favorable; gardens need sunshine. Brown.—What has made a good growth; oats all sown; pastures looking well. Chase.—Corn-planting begun; oats nearly all sown but growing slowly; alfalfa about four inches high, shows slight injury from recent freezes; last fall sowing of alfalfa mostly dead; wheat doing well; rather cool for garden truck; plum, pear, and cherry-trees in bloom; very few peaches; planting progressing. Chautauqua.—Much farmwork done; wheat doing well; corn and oats growing slowly; grass doing well and cattle now on pasture; early peaches injured, but all other fruit promises well; strawberries growing nicely. Coffey.—Farmwork progressing rapidly, but vegetation making slow growth, except alfalfa, which is doing well; corn-planting progressing well; ground in good condition; peaches and plums in bloom; some fear of damage by frost. Crawford.—A favorable week for farmwork, but too cold for good growth of vegetation; corn-planting about finished; ground in fine condition.

Doniphan.—A cold, dry week; fruit-trees not yet in bloom; wheat growing very slowly. Douglas.—Wheat in very good condition but growing slowly; farmers planting potatoes and flax; peach-trees ready to bloom; slightly damaged by freezing weather. Elk.—A cool week; grass coming slowly; early planted corn coming up; apples in bloom. Franklin.—Fine weather for spring work; ground now in good condition; corn-planting begun; cool weather has kept the buds back; no rain needed.

Geary.—Wheat looking fine; oats making slow progress; very little corn planted; apples not damaged by frost. Greenwood.—Farmers busy planting corn; too cool for good growth; wheat and alfalfa looking well; all fruit-trees in bloom; some of the early fruit injured.

Jefferson.—A cool, dry week; grass coming up slowly; plowing for corn; some sowing corn; oat-sowing finished, and oats coming up; feed is scarce; fruit prospects uninjured; peaches not yet in bloom.

Johnson.—A good week for farmwork; corn-planting in progress; oats growing slowly; some pieces thin; pastures too short to turn out on; plum-trees in bloom; some fruit damaged by frost.

Linn.—Wheat looking well and growing; considerable corn planted, but too cool for germination; ground in fine condition; oats look well; fruit does not seem to be damaged.

Lyon.—Too cold for much growth; some damage from high winds and freezing weather. Marshall.—Oats coming up and promising a fair stand; wheat has good color but is not growing rapidly; farmers about ready to begin planting corn; ground in good condition; tame grass starting nicely; fruit-trees have been kept back by cool weather; peaches are in the bud and promise a good crop, particularly seedlings.

Montgomery.—A good week for farmwork; a large acreage of corn has been planted, and the first planting is coming up; grass growing fairly well; stock out on pasture.

Morris.—Oats and corn made slow progress during the week; not much corn planted; grass grows slowly; alfalfa and blue-grass doing better than the wild grasses.

Osage.—Wheat doing well; some plowing being done; corn-planting has begun; gardens and vegetation backward on account of cold weather; peaches beginning to bloom.

Riley.—Ground in fine condition for plowing and planting; all vegetation advanced but little during the week; grass growing very slowly; plenty of moisture in the ground; peaches in bloom.

Shawnee.—Oat-sowing finished, early sown up, with a good stand; ground prepared for corn-planting; wheat and rye are good; garden-making in progress; cattle in good condition; plenty of rough feed on hand; the cold, damp soil in the bottoms has retarded vegetation; apples and peaches very promising; but little damage by frost.

Wabunsee.—A cool week; farmwork has progressed slowly; fruit apparently not damaged by freezing weather.

Wilson.—A good week for farmwork, but too cool for vegetation; oats backward; corn not coming up; pastures grow very slowly; many pastures and meadows burned over; potatoes coming up; apples in full bloom.

Woodson.—Much corn has been planted, and planting is still progressing; grass growing slowly; alfalfa and wheat look well; early gardens up; new onions and pie-plant on market.

Wyandotte.—Everything very backward; oats coming up.

MIDDLE DIVISION.

Wheat is quite promising in the southern counties and is in good condition in the central and northern except in Stafford, Barton, Russell, Mitchell, Ottawa, and Cloud Counties. Spring wheat was blackened in Dickinson County by the freeze morning of the 16th. Oat-sowing about finished. Oats are in fair condition in the southern counties, poor condition in the western (much not having sprouted) but in better condition in the northern counties. Much of the barley has not sprouted yet. Corn-planting is well advanced in the southern counties and has begun in the northern. In Harper the early planted corn is coming up. Alfalfa is starting slowly in the northern counties; much was sown in Sumner this spring and it is growing rapidly. Grass generally is starting slowly, though in Kingman it is doing nicely. Peach-trees are nearly in full leaf in Sumner; they are in bloom in Seward and seem all right in Republic, but were injured in Dickinson. Apple-trees are in bloom in the southern counties and pears in some of the central. Potatoes have been

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DUROC-JERSEY COMBINATION BROOD SOW SALE.

Forest Park Sale Pavilion, Ottawa, Kansas, Saturday, April 23, 1904.

45. PRIZE-WINNING DUROC JERSEY BLOOD. 45.

The offering will be selected from two of the best known herds in Eastern Kansas, and will include 2 tried brood sows, 10 yearling gilts, 30 fall gilts, nearly all of which are bred to first class boars. Also a number of extra good fall boars and 4 Choice Young Shorthorn Bulls.

Sale under cover. Close to Santa Fe and Missouri Pacific depots. Write for catalogue.

J. F. STAADT, Pomona, Kansas. L. A. KEELER, Ottawa, Kansas.

VERMIN PROOF GNICKENS. Lice prey upon chickens. This is one of the great bars to profit in poultry. But it need not be so. The fumes from Prussian Lice Killer catch every louse. The fumes penetrate every hiding place. There is no hiding from it under feathers or in cracks or corners of roosts. The chickens are not affected—do not mind it, but its use means louse destruction. Just point it on the floor, walls, boards, roosts, etc. of the hen houses. Should you prefer the powder treatment don't forget the reliable Prussian Lice Powder—Price 25c; mail 40c. "We can recommend your Prussian Lice Killer to any one who has poultry. Please quote us prices on one gallon and five gallon lots."—F. M. WAXY, Maynard, Iowa. Prices, 50c and \$1.00; 5 gallons, \$4.00. Don't forget that we make the famous Prussian Poultry Food also. If your dealer does not keep it, write to us. Our 68 page stock book sent free. PRUSSIAN REMEDY CO., ST. PAUL, MINN. SPECIAL AGENTS—PORTLAND SEED CO., Portland, O., H. W. WILLIAMS & CO., Ft. Worth, Texas.

planted in Smith. The cool, dry weather is retarding gardens. The ground is getting dry and a warm rain is much needed.

Barber.—Wheat in very good condition considering the lack of moisture; rain needed badly; apple and other fruit-trees in full bloom.

Barton.—A cool, dry, windy week; oats and barley sown but too dry for them to come up; wheat becoming spotted; peaches and apples blooming.

Butler.—Good weather for farmwork, but too cold for growth of vegetation; corn-planting well advanced; no indications of injury to fruit; good prospects for nearly a full crop.

Clay.—Wheat and oats doing well; very little damage to fruit reported.

Cloud.—Wheat and oats need rain; fruit and garden truck damaged by cold weather.

Cowley.—Cool, dry, and windy; wheat doing well; oats coming out slowly, but in good condition; corn-planting well advanced; grass growing slowly; warmer weather and rains needed; some injury to fruit.

Dickinson.—Too cold for crops to grow well; oats and spring wheat slightly damaged by freezing weather; winter wheat stooling nicely; considerable corn planted; peaches damaged.

Edwards.—Some wheat covered up by sand; grass starting slowly; farmers still feeding their cattle; oats and barley not all sown; wheat is in, not all sprouted.

Ellis.—Wheat damaged by high winds; early-sown wheat in fairly good condition; late wheat poor.

Harvey.—Corn-planting begun; good wheat weather but too cold for other grains to grow.

Harper.—Wheat very promising; oats a poor stand; corn-planting continuing with early planting just coming up; soil in fair condition.

Jewell.—A dry, cool week; oats coming up nicely; most ground in good condition; alfalfa starting slowly.

Kingman.—Wheat growing nicely; oats damaged to some extent by high winds; grass doing well; ground becoming dry; some have stopped listing; small grain beginning to need rain badly; apples and cherries in bloom; fruit apparently not damaged by frosts.

Marion.—A good week of growing weather; wheat and oats look fine; some corn being planted; some damage to fruit.

Mitchell.—A dry week with high winds; wheat damaged by drouth and high winds.

Ottawa.—Wheat not growing much—needs rain to give it a start; oats coming up scattering; fruit probably not injured by the dry freeze; not enough moisture to start gardens.

Phillips.—Wheat looking well—not making very much growth on account of cold north winds; frosty nights have damaged fruits; windy and dry.

Reno.—Fruit probably slightly damaged; ground getting dry.

Republ.—Wheat and oats in good condition; alfalfa doing well; some corn planted for early feed; fruit does not seem to be injured.

Russell.—Too cold and dry for vegetation; wheat still alive despite the drouth, and early sown wheat looks well, but late sown is poor; corn-planting has begun.

Saline.—A dry week; frost did some damage to fruit; peach, peach, and plum-trees in bloom; rain badly needed.

Sedgwick.—Wheat and oats look well; fruit is generally considered uninjured by the cold weather.

Smith.—Crops not doing well—too cold and windy; alfalfa starting slowly; oats all sown; potatoes planted; some corn planted; pastures dry, but plenty of feed on hand; stock looks well; fruit damaged by frost.

Stafford.—Wheat at a standstill; the past week was very windy and dry on all growing crops.

Sumner.—Wheat doing well; oats at a standstill; corn nearly all planted; apples nearly all in full bloom; peach and apple leaves nearly grown; alfalfa growing rapidly; considerable alfalfa sowed this spring.

Washington.—Wheat a good stand and looks well, but its growth is retarded by cold weather; early-sown oats up nicely but makes slow growth; grass starting slowly; some corn being planted; ground in good condition no perceptible damage by frost.

WESTERN DIVISION.

Spring is backward. Wheat is in good condition in Ford County and the northern part of Kearny, but over the rest of this division its condition is precarious. Oat-sowing about finished but the oats have not come up yet, too dry. Barley-sowing is nearly ended but none has come up except in Ness County. Corn-planting and listing are progressing in the northern counties. Alfalfa is starting slowly in Finney but is growing well in Kearny. Grass is starting slowly. Cattle are in good condition in Kearny but poor in Ness and Wallace. Fruit prospects are favorable.

Decatur.—Crops making slow progress; corn-planting begun; some barley still being sown. Finney.—Alfalfa and grass starting slowly; oats and barley not yet up; much wheat killed; some damage to fruit in northeast part of county but none in southwest.

Ford.—General condition of wheat encouraging; color good but growth slow; some on sandy soil damaged by wind, and a few very dry fields in poor condition; rain needed badly; spring crops doing nothing; injury to fruit by freezing weather is slight on account of dryness of air.

Grant.—No forage crops planted yet. Hamilton.—This has been a dry, cold week. Kingman.—Ground too dry to plow; no farming can be done till rain comes, except where irrigation is done; wheat prospects not favorable except in northern part—too dry; range-grass starting very slowly; alfalfa starting and growing well; cattle kept well on the range and are in good condition; fruit prospects good.

Lane.—Grass is starting but grows very slowly; peach-trees in bloom; apples beginning to leaf. Meade.—Heavy wind and dust storm Friday; freezing temperature Friday and Saturday nights; some fruit killed.

Ness.—The winter drouth remains unbroken; wheat at a standstill; much of that sown last fall remains unsprouted; farmwork suspended on account of the dry weather; a very small acreage of oats and barley; barley coming up; grass starting very slowly; some potatoes planted and gardens made; peaches, plums, and currants in bloom; prairie fires numerous and doing much damage; cattle in poor condition.

Norton.—Season dry and very backward; grass not starting; prospects for winter wheat very poor; some corn being listed; fruit not injured. Sheridan.—Wheat not very promising; barley and oat-sowing about completed; corn-planting begun; a large acreage of corn will be planted; grass starting to grow.

Thomas.—Winter wheat making slow progress; corn-planting begun; a large acreage of barley sown; spring seeding nearly completed; peaches in bloom.

Wallace.—A dry, cold week; very little farming done; no oats or barley sown—too dry; wheat poor on account of drouth; range-grass dry; stock shrinking.

An Extinct Mineral Spring.

For many centuries mineral springs have been utilized for their curative, healing power. The ancients knew of them and had their favorite springs and baths, to which they resorted when weak of body or feeble of health. We read in the Testament of the Pool of Bethesda,

whose waters were troubled twice a year and at these times possessed healing powers of a remarkable nature, which caused them to be sought by thousands, who tramped many miles to drink of and bathe in the waters, receiving therefrom new life, health, and strength.

The mineral properties which give to the waters of the world's mineral springs their curative virtues come from the rock or mineral ore, through which the water is filtered on its way to its outlet, only a small proportion of the medicinal power in the ore being thus assimilated with or absorbed by the liquid stream. The rock contains that which furnishes the medicinal and healing power, the water serving only as a conveyance to carry but a small part of its properties to the outer world.

Our readers have seen and noticed the announcements of Vitae-Ore, a peculiar mineral formation, and have wondered at the origin of this remarkable product and the source from which it derives its known and established healing powers. This Vitae-Ore is no more or less than a mine of this mineral rock, originally discovered by Theo. Noel, a Geologist, while prospecting in the Southwest. It was the belief at the time, which has since been confirmed by leading scientists in America and Europe, that the surface on which this magnetic ore was discovered was at some ancient time the location of a powerful mineral spring, compared to which the springs of the present day are but pygmies, which spouted its healing waters, impregnated with the wonderful mineral found at its base, for centuries before the foot of man trod the Western Continent. Some years after its discovery it was decided to give to the world the benefit of this great boon for the world's health, and it is this magnetic mineral ore which has since astounded the people by its marvelous cures, and won everlasting fame and an enduring reputation under the name of Vitae-Ore. Many of the remarkable cures wrought are among the readers of this paper and people well known to our subscribers. Read the announcement in this issue, the special 30-day trial offer by the Theo. Noel Company, Chicago, proprietors.

The Newton Combination Sale.

At Newton, Kans., on April 27 and 28, will be held one of the notable sales of the season. It will be notable because of the quality of the stock offered; because of its variety; and because of its location. The first day of the sale will be occupied in disposing of 30 head of good Shorthorns, many of them being Scotch-topped. This offering will consist of 15 cows and heifers and 15 young bulls from such well-known herds as those belonging to G. D. Stratton & Son and Cecil McArthur, Walton; Alfred Knott, Hesston; M. L. Seaman, Sedgwick; and J. E. Fife, Ben C. Lantis, Lee Stewart, and Alfred Tange-man, of Newton. We have seen animals from several of these herds and know they are good. On the same day Mr. Cahs. Ballon, of Hesston, will sell a number of good Herefords.

The second day of the sale will be devoted to the selling of 60 head of Poland-China swine. Newton is in the center of one of the greatest Poland-China sections of the Union. Here is where they breed prize-winners. The sale-animals will be drawn from the herds of John D. Marshall, Walton; W. E. Peacock, Sedgwick; F. M. Mills, Valley Center; R. E. Becker, Newton; Ben C. Lantis, Newton; A. M. Cardener, Newton; J. E. Fife, Newton; Hugh Coble, Newton; Alfred Knott, Hesston; S. S. Rebstock, Hesston; and G. D. Stratton & Son, Walton. If you can not get, send bids to C. W. Goss, clerk, or I. D. Graham, of the Kansas Farmer.

To Improve Stock.

The Glasco Improved Stock Show & Sale Association has been organized and officers elected as follows: President, J. M. Copeland; secretary, G. H. Bernard; treasurer, G. W. Hussey. The vice-presidents are: L. H. Cool, J. M. Copeland, W. W. Palmer, George Nowels, W. A. Davidson, George Chapman, E. E. Butler, J. H. Martin, and C. C. King.

They are all prominent thoroughbred stockmen, in cattle as well as horses and hogs. Other owners of herds in this vicinity are W. E. Orebrough, Frank Wilson, George Coldwell, John Chase, J. A. Nicol, and others, who handle from 50 to 100 head. The dates of the association and sale meeting have been fixed for May 20 and 21.

The object for which the association was organized is to unite all owners and fanciers of pure-bred stock in this locality into one society for the promotion of the interests of good stock, to stimulate pure-stock breeding and to create a greater interest so that more people in the community may become fanciers of pure-bred stock to the end that the live stock interests of this vicinity may be advanced.

Publishers' Paragraphs.

The Kansas oil fields are attracting world-wide attention and are probably the best speculative and substantial investments for the amount involved of any similar proportions on the market. We call attention to the advertisement of special opportunities offered by the Mayne Company, of Chanute, Kans.

John J. Cooper, Mgr. John R. Mulvane, Pres., Topeka, Kans. The Las Animas Land & Stock Co. Las Animas, Col., Oct. 20, 1901. Dr. B. H. DeHuy, Denver, Col.

Dear Sir:—I have used your Balmoline on myself, horses, and cattle, and found it to be a most excellent remedy for cuts, wounds, galls, sore shoulders, etc. Have recommended it to several stockmen here and they all seem to be well pleased with it. Respectfully yours, J. J. COOPER, Manager.

The Harvest.

The most vital work of the Nation is that of gathering the grain. At the same time it is one of the hardest tasks as well as one of the severest tests of endurance; and strange to say the world pays little attention to this important work for the man on the binder is a man worthy of his rank among men.

In the heated days of a long, dry summer the harvest of grain becomes a siege of endurance, which muscles can not al-

Local agencies and complete repair stocks everywhere

DEERING HARVESTERS

International Harvester Co. of America, Chicago, U. S. A.

Special Want Column

"Wanted," "For Sale," "For Exchange," and small or special advertisements for short time will be inserted in this column without display for 10 cents per line of seven words or less per week. Initials or a number counted as one word. No order accepted for less than \$1.00.

CATTLE.

RED POLLED BULLS—Two 2-year-old; eight 6 to 10 months old. The kind there is money in while stock cattle are low. Write to, or call on H. L. Pellet, Eudora, Kans.

D. P. NORTON, Dunlap, Kans., offers registered Shorthorn bull and heifer calves, crop of 1903, at \$50, get of Imp. British Lion 133692.

SHORTHORNS FOR SALE—16 bulls—from 8 to 20 months old; also 150 females, and a nice lot of Poland-China boars and sows. Wish to sell at once at farmers' prices; breeding first class, all stock in good health and in good breeding condition. Geo. Channon, Hope, Kans.

HANDY HERD REGISTER—The improved Handy Herd Book for swine breeders is a record book that every breeder should have. It is perfect, simple, practical and convenient and contains 100 pages or about one cent a litter for keeping the record. The regular price of this handy herd book is \$1, but we furnish it in connection with the Kansas Farmer one year for only \$1.50.

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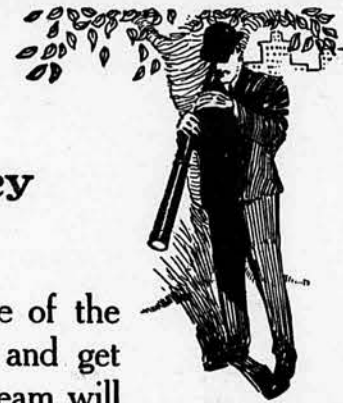
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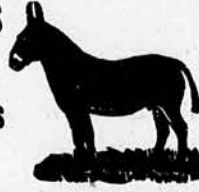


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At the American Royal, 1903, our Percheron stallions won every first prize. One of our Percherons won championship. Five of our Percheron won first as best collection. Our French Coach stallions were equally successful, winning every first prize.

At the Iowa State Fair our Percheron stallions won three first prizes and first in collections.

At the Minnesota State Fair our French Coach stallions won every possible first prize and grand sweepstakes. At the Ohio State Fair our stallions won fourteen first prizes out of a possible fifteen.

At the Indiana State Fair our Percherons won three first prizes. Our French Coaches won every possible prize. At the Kansas State Fair our Percheron and French Coach stallions won every first prize, including grand sweepstakes. Our last importation and the fourth for us in 1903, arrived in Columbus, Tuesday, Dec. 8. During the year we have imported from France four times as many Percheron and French Coach stallions as have been brought over by any body else. Our are the very best, we import more of them, sell more of them and therefore can furnish our customers a better horse for the money than can be bought elsewhere.

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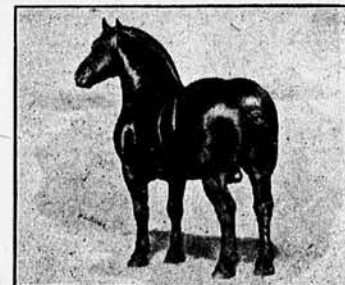
Visitors and buyers throng his barn and say: Hello! I'm Ely from Mo. Say, Iams has the best horse-show I ever saw. Yes see those four 2000-lb. two-year olds. Iams is a hot advertiser, but he has horses better than he advertises. Hello Mr. I'm from Ia. Say, this is the best string of stallions I ever saw. They are sure peaches and cream. See those six 2200-lb. three-year-olds—all alike, too. Zeke, they are sure "the wide-as-a-wagon" sort. "Mother, look, this is Iams' great show of horses." His horses are all black and big ton fellows. He always has the best. Samant' y here is Iams' show herd. Everybody wants to see his horses. We came from California to see Iams' 5100-lb. pair of stallions. That's them; better than the pictures. They are the greatest pair in the U. S. Yes, and worth going 2,000 miles to see. Hello Louie, here is Iams' 2400-lb. sweepstakes Percheron stallion over all. He is a "Hummer!" Say, "Doc!" I don't wonder at his competitors wanting this horse barred out of the show-ring. He is a sure winner anywhere. Iams' always has good ones and in shape. Hello Bob; see those Ill. men buying that 2,200-lb. three-year old, a "topnotcher" at \$4,200—much better than twenty of my neighbors gave \$4,000 for. Kitty, see these fine coaches of Iams'. George, dear, they are lovely; they can look into the second story window. They step high, like "worldwinds." Yes, Kitty, Iams has more registered draft and coach stallions than any man in the U. S., and all good ones. George, dear, buy your next stallion of Iams. His horses are much better than the one you paid those Ohio men \$4,000 for, and Iams only asks \$1,000 and \$1,500 for "toppers." Iams has reserved for spring trade

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On hand of last year's importation which he will sell on the following terms

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30 COWS AND
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60 BRED SOWS
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15 Bulls—15 Cows and Helpers will be sold on Wednesday, April 27.

These cattle are all good. They are richly bred, many showing one to four Scotch tops. All good colors, well grown and in good condition. G. D. Stratton & Son, Walton, Kans., sell 15 head. Other consignors are: J. E. Fife, Newton; Lantis Bros., Sedgwick; Ceell McArthur, Walton; Lee Stewart, Sedgwick; Alfred Knott, Hesston; C. A. Seaman, Sedgwick; Alfred Tangeman, Newton. For catalogue and other information write to G. D. STRATTON & SON, Walton, Kans.

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Charles Ballou, Hesston, Kans., will sell 3 Good Herefords, April 27th.

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60 Head Boars and Bred Sows—will be sold on Thursday, April 28.

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Wednesday, 4th Day of May, 1904
COMMENCING AT 1 O'CLOCK PROMPTLY.

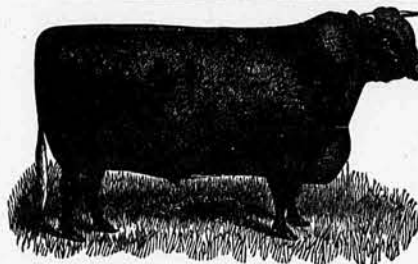
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COMMENCING AT 1 O'CLOCK P. M.



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CONTRIBUTORS.

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Vitæ-Ore strikes the disease at its root, entirely readicates every vestige or trace and the patient is cured to stay cured. As a Blood Purifier it is without a peer. No other remedy can equal it. It supplies nature with the elements to build health into diseased bodies. It is the ideal tonic for Weak and Anæmic Men and Women. Its use makes the watery, impoverished blood become strong and virile, and as it comes through the veins imparts the color of health to the face, a sparkle to the eye and strength and vigor to the system. When Vitæ-Ore has done its work you will feel like a new being.

YOU ARE TO BE THE JUDGE!

Women Are you afflicted with any of the innumerable diseases which are so common and prevalent among your sex? We cannot mention them in this small space, but let us assure you that Vitæ-Ore is the true "Balm of Gilead" to every sufferer and the many diseased conditions which unfit women for the full enjoyment of life and its duties may be at once alleviated and permanently eradicated by the use of this wonderful remedy.

YOU ARE TO BE THE JUDGE!

Men Are you afflicted with any of the diseases peculiar to men? Have you in ignorance wronged and abused your body so that nerve power and vitality are wasting? Is Debility taking the vim and fire of youth? Above everything else you need Vitæ-Ore. In these conditions it proves to be a powerful tonic, a reviver, a vitalizer, restorer, force-builder. It is not a temporary stimulant, but builds up from the bottom by putting each organ, tissue, muscle and ligament in a healthy condition.

YOU ARE TO BE THE JUDGE!

YOUR STORY

WILL BE LIKE HERS.

A CURE AND ALWAYS A CURE.

Sarah A. Chappell Wrote for It, Tried It, Judged It, and Is Not Sorry. Why Not You?

BAXTER, MO. I take pleasure in telling what Vitæ-Ore has accomplished for me. I had suffered seven years with a severe Stomach Disorder and Indigestion, the trouble dating from the year 1897, and have doctored and used patent medicines all the time. I began a treatment with Vitæ-Ore some time ago, and have at this time taken in all four packages, and feel almost as well as I have ever did in all my life. I do hope that all suffering women can be induced to try this wonderful medicine as I did, and be cured as I have. If it was not for Vitæ-Ore I surely would not have lived much longer, as I had about given up all hopes, but now I feel that life is worth living. I am so well and cheerful. I recommend it among my friends, finding it a great pleasure to do so, and feeling that it is my duty as a recompense in some measure for the great good it has done for me. I know that Vitæ-Ore is what it is claimed to be, and only wish that all afflicted will give it a trial.



SARAH A. CHAPPELL.

Chronic Bladder, Urethral and Prostatic Trouble.

CARLYLE, KANS.—I have been afflicted for a number of years with Chronic Bladder, Urethral and Prostatic trouble. Our doctors exhausted all of their resources on me and did me no good. I was very bad indeed and was advised by my last doctor to go to Cincinnati and have an operation performed for Gravel, but thanks to Vitæ-Ore I did not have to go. I have used three packages, costing me but \$3.00 and it is certainly the best three dollars which I have ever spent, as I am now almost entirely well. I am 58 years old and able to do a good day's work, something which I am indeed thankful for, as I could not for five years. Long live Vitæ-Ore!

R. B. ARNOLD.

Hospital Treatment of No Avail—V. O. Causes An Absolute Cure.

OKLAHOMA, KANS.—Allow me to express my gratitude to you for the benefit derived from Vitæ-Ore, your wonderful remedy. I suffered for three years before I got any relief and Vitæ-Ore brought it to me. My trouble was worse in the summer months. In winter I would improve somewhat and at the beginning of spring, when the trouble would grow worse, my weight would reduce from forty to sixty pounds. After eating I would have to lie down, as pain and gas would form in my stomach, causing me terrible distress. I went to the best physicians in Topeka and the disease seemed to puzzle them; then I went to the hospital, one of the best in the state of Kansas, and submitted to an examination and stated my case thoroughly. The doctor studied it over and later washed out my stomach every other day, and gave me medicine at the same time, but it did no good. He diagnosed the case as catarrhal trouble, but his treatment did me no good. Vitæ-Ore was recommended to me. I began its use and after a few doses felt sure that I had the remedy to fit the case, and sure enough, it caused an absolute cure. It is now the time when I formerly experienced the greatest difficulty and I am feeling just splendid. The Vitæ-Ore is an excellent remedy and I have recommended it to many.

CHAS. T. MORSE.

NOT A PENNY UNLESS BENEFITED.

This offer will challenge the attention and consideration, and afterward the gratitude, of every living person who desires better health or who suffers from, illness and diseases which have defied the medical world and grown worse with age. We care not for your skepticism, but ask only your investigation, and at our expense, regardless of what ills you have, by sending to us for a package. ADDRESS

THEO. NOEL COMPANY,

Dept. A. F., Vitæ-Ore Building,

CHICAGO, ILLINOIS.