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# KANSAS FARMER

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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. McAFEE.....Vice President  
D. C. NELLIS.....Secretary and Treasurer

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### BLOCKS OF TWO.

The regular subscription price for 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.

The daily press is authority for the statement that Secretary J. W. Rippey has been authorized to advertise for bids for the construction of five new State fair buildings provided for by the last Missouri Legislature. Missouri appropriated \$75,000 for additions and improvements after her fair had been in successful operation two years. The proposed buildings are an agricultural hall, 80 by 160 feet, a horticultural hall, 80 by 160 feet, poultry building, 64 by 120 feet, and two cattle barns, each 68 by 120 feet. Missouri is, in natural resources, an empire, and her people are awaking to the true value of their inheritance.

Recently the KANSAS FARMER was favored by Mr. Geo. W. Maffet, of Douglas County, with an excellent description of his methods of manufacturing maple sirup and sugar from the trees upon his farm. These trees were all planted by the hand of man. They yield plenty of this unrivalled kind of sweetness for Mr. Maffet's family the year around. The editor has sampled these goods of this spring's production and was carried, in his mind, back to the days of childhood on his grandfather's farm in Ohio, where that same inimitable flavor came from the big maple trees. Maple camps are possible in Kansas.

Since the State fair was held at Sedalia Mo., last year, an exhibitors' association was organized which comprises exhibitors of live stock who make the circuit of the State fairs and larger shows. At the organization meeting it was voted not to make any exhibits this year unless the railroads would give better rates for the transportation of live stock. The offer of reduced rates heretofore by the railroads has really meant nothing to the breeders, as it gave them half rate to the fair and a free return, but in its operation it gave them half rate to the first fair of the series and they were obliged to pay full fair to all succeeding fairs. This association now asks that a flat rate of one-half tariff rate be granted all around the circuit. Secretary Rippey has been authorized to arrange a conference between the exhibitors and the railroads, and it is expected that he will do so within a few days, the meeting to be held at Chicago.

### THE ANTI-HORSETHIEF ASSOCIATION.

A week or two ago, we had occasion to commend editorially the splendid results obtained by the magnificent organization which bears the name at the head of this article. Again we learn that in further prosecution of their universally commendable objects the lodges of this association are now arranging for the construction of a perfect network of telephone lines

throughout southern Kansas and northern Oklahoma and Indian Territory. The efficiency of this organization in the suppression of crime against property has been remarkable in the past, while the moral influence which it exerts on this border land between the Territories and the State is beyond all calculation.

With the completion of the telephone system as now planned, the territory which is most nearly adjacent to the headquarters of this great association will be so thoroughly covered with telephone lines that it is stated that 2,000 members of the order can be called into active service at an hour's notice. Who can estimate the enormous moral influence of such a determined and effective organization as this, headed by active and alert officers, and equipped with a most rapid means of communication and transit between members? We advance the assertion that not many horsethieves will venture within the meshes of this telephone net.

It will be remembered that this great organization is pledged to assist the civil officers in the discharge of their duties in the capture and bringing to justice of all classes of criminals. It never takes the law in its own hands but its value in assisting the officers along the border and elsewhere can hardly be estimated. We are glad to notice that the association now proposes to devote some attention to the different breeds of sharpers and grafters whose purpose it is to victimize farmers. We think that the large scope of country covered by this association will be about the best region which thieves and crooks can find to emigrate from, that can be found in the United States, and are particularly glad to know that the order is growing in other parts of Kansas and the West at a very gratifying rate.

### NEW SUPREME COURT DECISION AFFECTS MONOPOLIES.

In discussions of transportation questions and of the regulation of other corporations doing interstate business much ambiguity has arisen on account of the illy defined boundary between the jurisdictions of the general government and the several States. If Congress proposed to regulate the railroads in a comprehensive way, objection was made that the act would be unconstitutional as an invasion of the rights of the States. If a State Legislature proposed regulation, its acts were a nullity as to traffic across State lines. Since nearly all traffic crosses some State line, the power of the States was found to be almost nothing.

A recent decision of the United States Supreme Court has been rendered. If this is correctly reported, it clears the atmosphere of the uncertainty as to the power of Congress in the matter. The Arkansas State Railroad Commission had established rates between points within the State. Later, the Interstate Commerce Commission claimed jurisdiction on the ground that the railroads affected were interstate roads and that all their business, whether wholly within the State or across State lines was subject to their control. The decision of the Supreme Court removes all doubt and locates the jurisdiction with the Interstate Commerce Commission.

Perhaps State railroad commissions may have left a little advisory authority as to the location of depots, and as to furnishing cars to shippers, but these expensive State officers may about as well be discontinued.

Public opinion is forming pretty rapidly concerning the regulation of great concerns. This opinion will now have

simply to make itself felt in Congress to secure the needed regulation. It is time that the people should be heard. The absorption of the wealth of the country by monopolies seems not likely to be restrained by natural forces; it must be regulated by law with ample provision for its enforcement.

The subject of such regulation—what it ought to be and what it can be—is a good one for nonpartisan consideration in grange meetings, in debating societies, and in all other gatherings where unbiased exchange of information and views may be had.

Congressmen and Senators will be glad to be advised of the matured opinions of their constituents on these questions. No other method of affecting public policies is so efficient as the writing of well matured views to Representatives and Senators in Congress.

### SETTLING THE IRISH QUESTION.

The woes of Ireland have moved the heart of the humane portion of humanity for generations. Whatever the explanation of those woes, their existence could never be truthfully denied. The statesmanship of Gladstone and other great thinkers and doers met the intricacies of the Irish question with varying results but the question remained. Philosophers saw that the sire of the woes of the unhappy island was the foreign ownership of the soil. A lesson that humanity seems prone to forget and that every few generations, at farthest, has to be learned anew, is that the prosperity, the tranquility, and the happiness of a country are dependent upon the ownership of the soil by the tiller thereof.

Great Britain has finally decided to act on this lesson from the past and to avert the penalties which have resulted from neglect of its teachings. She has determined to restore to the Irish farmers the ownership of the lands of Ireland. To bring this about a free grant of \$60,000,000 from the British treasury is proposed. The tenant farmers of Ireland are to pay 3½ per cent on loans from the government. It is thought these loans may amount to \$500,000,000 or possibly to \$700,000,000. The loans will be paid back in regular installments, but these installments and the interest charges will be less than the present rents.

Government advances of these great sums for such purposes are novel. But, with the exception of the \$60,000,000, they are only loans and will as surely return with interest as the seasons are to come and go. It is estimated that the reduction in the cost of administration in Ireland will almost equal the interest charge.

England is always apprehensive of war with some great power. In case of an exhausting war the prosperity, tranquility, and loyalty of Ireland might be worth the difference between defeat and triumph. British statesmen do well to deal broadly and humanely with the Irish question.

### A PACKING-HOUSE MERGER.

The early years of the twentieth century will probably go down in history as the age of "mergers." What will succeed this period in the world of corporations can not now be confidently foretold. Continued efforts to remodel its institutions, to subserve the interests of the people or to promote the interests of the crafty, characterize the present.

One of the latest "mergers" is that of seven of the smaller packing companies under the name, "National Packing Company." This was brought

(Continued on page 388.)



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## Agricultural Matters.

### Broom-corn Culture.

EDITOR KANSAS FARMER:—There are two distinct varieties of broom-corn, viz., Standard, which grows to a height of from seven to twelve feet, and Dwarf, which grows to a height of from three to seven feet.

Of the latter, I have raised fifteen crops, while only one of the former, hence my experience as a raiser of the Standard variety is quite limited; so will confine my talk, principally, to the dwarf variety. Dwarf brush is used in making small brooms, whisks, and brushes, while standard is used for making large brooms.

Climatic conditions for the production of broom-corn should be about the same as for growing Indian corn, although the former is more of a drouth-resisting plant than the latter.

The fodder from dwarf corn after the brush is gathered makes excellent roughness and yields from one to three tons per acre, while the standard is worthless as a forage.

In Kansas it may be planted from April 20 until the first of July.

It is not advisable to plant it earlier for the reason that it is a very tender plant and makes a slow growth while young and the cold rains in early spring, weeds, and insects exhaust the vitality of the plant to such an extent that it never comes out and makes a good yield.

Another important feature is in the selection of seed, and drying without its becoming heated which would injure the germ.

One not versed in the peculiarities of broom-corn seed is very apt to get it heated before time to plant. The ground should be prepared the same as for Indian corn, the rows three and one-half feet apart and distribute the seed to the amount of two and one-fourth quarts per acre of good clean seed.

A corn planter may be used by taking a blank plate and drilling holes three-sixteenths inch in diameter making two and one-half times as many as there are holes in the plate for planting corn.

It takes from 70 to 100 days for it to mature. The earlier it is planted the longer it takes to mature.

A crop of forty acres should be put in five different plantings of eight acres each and about one week apart, so one planting can be harvested before the one following is ready.

Each planting should be gone over and pulled two or three times, sorting out the ripest heads and allowing the tender or youngest ones to stand until the next time over. Each head is matured when the bloom begins to fall off readily.

It will stand but a few days after it is ready to pull. This is done by taking hold of the leaf that extends along the head with one hand and the head with the other and pulling in opposite directions with a quick jerk when the head will come from the stalk.

If it stand a little too long after it has matured it turns red in color which diminishes the value very materially.

It costs from \$20 to \$30 per ton to harvest the crop after it is matured, outside of the machinery and sheds.

It takes the profit of a forty-acre crop the first year to pay for machinery and sheds.

Broom-corn requires more experience to raise successfully than most any other crop. It is also the most expensive crop to raise, but with shrewdness, economy, and staying qualities, one can make a success of the business.  
Rice County. W. W. WEBB.

### Pasture Grass for Central Kansas.

EDITOR KANSAS FARMER:—In your issue of March 19, a farmer in Rice county requested discussion upon the subject of pasture grass adapted to central Kansas, and gave the name of several different grasses, none of which, I think, have been very thoroughly tested in this part of the State. Red-top or herd-grass is not likely to prove satisfactory as it seems to be a grass adapted to regions of country where there is more rainfall than we have in Rice County.

If I knew how the farmer could successfully reset his pasture land to buffalo-grass, I could put him on the road to success in getting a permanent pasture grass. I have about 40 acres of native buffalo pasture. Have lived on my farm 30 years and have pastured from ten to thirty head of cattle on it during all this time, and it is just as good now as it was in 1873, when I first settled on it. It looks short, but inspection of both my stock and the pasture has convinced me that it will sustain more stock, keeping the same in good condition, than any 40 acres of timothy, red clover, or Kentucky bluegrass I have even seen. It may look dead, and at a distance, the ground may look bare, but close inspection will show the surface to be covered with curled grass which the stock eat and do well on. I would not permit this 40 acres to be plowed up for \$50 per acre, unless I knew how to reset it to buffalo-grass again.

The above information is for newcomers to central Kansas, in order that they may save a pasture of native buffalo-grass if they get a farm upon which it is, as yet, undisturbed. Alfalfa will not be satisfactory as a winter pasture. Like red clover it stops growing during cold weather. Bluegrass will never, in all probability, be a very reliable pasture grass in central Kansas. I have tried it in one of my orchards, and on the north side of the trees it does fairly well, but out on open ground it does not prosper. This is emphatically a wheat and rye country. More than half of the time the farmer can look for fall and winter pasture if he sows wheat; and alfalfa can be relied upon to afford green feed for stock of all kinds in the spring and summer. But as far as my experience extends, alfalfa will afford more feed if stock is kept off entirely. I cut and feed it to hogs morning, noon and night. For horses and cattle, I cut and cure it, and I have no losses from bloat, none of the alfalfa is tramped down or rooted up; in short, I get all of it, and I believe I get more of it by this method than I could by any other. In the meantime, I would recommend testing different grasses fairly and to a limited extent. As the farmer referred to seemed to be situated, his present best recourse for pasture is wheat and rye for fall and winter, and alfalfa for spring and summer use.

But if he has a field of native buffalo-grass, save it for it is a good thing.  
Rice County. G. BOHRER.

### Hessian Fly.

EDITOR KANSAS FARMER:—I have a field of wheat that is partly destroyed by some insect and suppose it to be the Hessian fly. The first day's work with the drill was done about eight days earlier than the rest. It came up well but soon began to look yellow, and then to die, the rest did not get so good a start but shows no signs of insects. Examining the dead stalks in the early-sown wheat I find there is from one to ten dark-brown eggs deposited in the stalk low down in the ground.

I write to inquire as to whether it will be useless to leave the wheat that looks good or will the fly appear in it, too? In the spring last year the field showed no signs of fly.

R. A. McQUEEN.  
Sedgwick County.

In reply to your correspondent's inquiry I will state that that portion of his wheat sown eight days later than the other portion is free from present injurious effects of the Hessian fly, because that insect had deposited its eggs in the earlier sown wheat and had died a natural death before the appearance of the later sown wheat. A new crop of the Hessian fly is due to appear at this time (the last of March or first of April) and will deposit eggs on the later sown wheat, the amount of damage depending somewhat upon the character of the season for wetness or dryness. The "dark-brown eggs" referred to by your correspondent are not eggs, but the chrysalis or flax-seed stage of the insect from which the winged flies will appear in a few days.  
F. H. SNOW.  
State University.

### Care of Alfalfa.

EDITOR KANSAS FARMER:—I wish to ask for information about how to take best care of alfalfa sown last year August 29, on a piece of land where a crop of wheat was taken off, plowed as soon as possible after harvest, the ground kept clean of weeds through summer, was rolled twice before sowing the alfalfa and rolled once after sowing. The soil is black with a little sand in it. Distance to water 30 to 60 feet. The alfalfa stood the winter well and is showing a nice green at present. I sowed 20 pounds to the acre with a wheelbarrow-sower. Is it advisable to cross-harrow it or would

disking not hurt it, being so young? Top of ground is a little cracked.  
P. G. HEIDEBRECHT.  
McPherson County.

There is considerable doubt whether anything ought to be done to this young alfalfa save to cut it when it begins to bloom. If crab-grass appears later it will probably be wise to disk it, setting the disks so as not to throw large furrows. Whatever you do, report to the KANSAS FARMER, giving results. Doubtless some farmers can now give valuable experiences on this question. They should do so at the earliest opportunity.

### Millet Crop As a Preparation for Alfalfa.

EDITOR KANSAS FARMER:—I have a patch of ground which I want to seed to millet this spring and to alfalfa in the fall. Please state if millet sown will get the ground in good shape for sowing to alfalfa in the fall, and if not, recommend some early crop for same.  
Clay County. JOHN BROWN.

Millet as a renovator of the soil in

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preparation for August sowing to alfalfa is highly recommended. It has but one known superior and that is a mixture of oats and field peas. Sow the millet as early as possible. After harvesting the millet disk the soil immediately and either disk or harrow after every rain until about the middle of August. The soil should then contain moisture enough to start the alfalfa, but if the soil be too very dry, it may be better to defer sowing until after a rain.

Some recommend plowing the millet stubble. If this is done the soil should be harrowed or packed with a sub-surface packer immediately after plowing and should be harrowed again after every rain until sowing time.

**Pencilaria—Bromus Inermis.**

EDITOR KANSAS FARMER:—In the KANSAS FARMER of March 5, John T. Moulds wanted to know what pencilaria is used for. I think it is used mostly to swindle farmers. I tried it two years ago and found it to be East India or pearl millet which was puffed up a good deal 25 or 30 years ago by some of the Eastern papers. It is inferior to sorghum or Kafir-corn.

If Mr. Moulds wishes to try it, I would advise him to get pearl millet as it only costs one third as much, and the price is the only difference.

Bromus inermis is similar to blue-stem. It comes up earlier than any of our native grasses and stays green till cold weather comes. It is not good for hay as the seed stems are naked and the blades short.

A. H. NORTHUTT.  
Hodgeman County.

**Macaroni Wheat for Seed.**

EDITOR KANSAS FARMER:—In the past two years I have read many articles about macaroni wheat. I wish to test it this year. Will some one kindly tell me where to get seed, naming the varieties and price? J. F. KIMMEL.  
Sherman County.

Write to some reliable seedsman, also to Prof. J. G. Haney, Hays City, Kans.

**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 post-office, should be signed with his full name, and should be addressed to Dr. Geo. C. Pritchard, V. S., 110 East Tenth Street, Topeka, Kans. Telephone No. 319, either phone.

**Indigestion.**—I have a young sow 3 weeks old to-day. Yesterday she was taken sick and has symptoms of thumps. She ate better to-day than yesterday. Please inform me through the columns of the KANSAS FARMER what to do for her. We keep the pigs on a dry plank floor and change the bed every other day and feed the sow soaked corn and shorts with milk. They are fine pigs, full-blooded Poland-Chinas. We have lost several the same way. F. W. WIRT.  
Pratt County.

**Answer.**—Should advise the feed of the mother to be restricted to bran and milk for a short time, with a pen large enough for her to get plenty of exercise. For medicinal treatment, take tincture of belladonna 1 ounce, water 15 ounces. Give the mother tablespoonful of the mixture twice a day. It would be good to give the pigs affected about ten drops of the mixture two hours apart until the spasmodic symptoms relax, then only three times a day for two or three days after apparent recovery.

**Ulcerated Teeth.**—I have a gelding colt 4 years old. Last spring one side and under his jaw was swollen and broke. It did not seem to heal up altogether and the bone remained somewhat enlarged. This spring the other side of jaw is going the same way. Have not used anything for it. The colt is in good flesh and seems to feel all right. RAY BROWN.

**Mitchell County.**  
**Answer.**—Your colt has bad teeth. Have him examined and treated by competent veterinarian.

**Chronic Sore Neck.**—I have a horse whose neck gets sore each summer. The summer he was 5 years old it came on during haying. As soon as that work was finished it healed, and I supposed it was caused by the mowing machine, but the next summer it came on earlier and lasted longer, and has been doing so each summer since; and

now whenever he gets warmed up under the harness he complains of his neck itching. I have tried flour, starch, sulfur, Stewart's healing powders dusted on, kept it washed and the collars clean, tried bridging pads, gall cure, a mixture of Stewart's healing powders and petrolium with a few drops of carbolic acid and turpentine in it. Last summer I washed it three times a day with a weak solution of carbolic acid for two weeks, then three times a day for the same length of time with vitriol water. Following this, I greased it morning, noon, and night with lard in which jimson-weed leaves had been fried. This I thought helped it as much as anything I had tried, but it would just get to the healing point and no further until cold weather. It ways always worse on Monday morning than Saturday night, and after a rainy spell when the horse had not been worked for a few days. He has never been sick since he was 3 years old when he had the distemper very bad. What can I do to prevent this coming on this summer?

Osage County. H. D. BARRINGTON.

**Answer.**—The only way to make a permanent cure of your horse's sore neck is to have the diseased tissue removed with the knife. To do this would necessitate the employment of a competent veterinarian. A sore neck that has run as long as you say this has always reduces the vitality of the tissues, and consequently healing powers are very low. After the diseased tissues are removed, fresh granulated tissue will form and take the place of the old dead tissue. You will have no trouble in healing it after removing the dead parts. Until an operation is performed you probably will have more or less trouble.

**Partial Paralysis in Cows.**—I have ten cows. In the winter of 1901-2 I fed them corn fodder, Kafir-corn, and a little alfalfa. They seemed to keep in order and do well. This winter, 1902-3, I fed corn fodder and stalk pasture until about February 12. Since then I have been feeding alfalfa and corn fodder, a little of each twice a day; and I have one cow that seems to be ailing the last two weeks. Sometimes she gets up and sometimes not, and she nearly always has to make three or four efforts before she gets up. She seems to be weak in the back and kidneys. I wonder if it is the alfalfa that causes it. To-day I noticed, for the first time, the second cow was afflicted the same way. It is not for the want of feed, for they are in good order. Can you tell me the cause and, better still, a cure? W. J. BRENDEL.  
Lyon County.

**Answer.**—Your symptoms are so meager it is impossible to give a correct diagnosis. But on general principles should diagnose paralysis, caused by some derangement of the digestive organs. Treatment—Give one quart of raw linseed oil at a dose, and the following day give these powders, three times a day: Powdered nux vomica, 8 drams; powdered belladonna leaves, 6 drams; powdered gentian, 1 ounce. Mix and make 16 powders, 1 three times a day.

**Texas Itch.**—We have in this vicinity two bunches of cattle that are afflicted with a puzzling distemper. From articles I have read in the KANSAS FARMER and in the Topeka Capital of March 17, it seems probable it is Texas itch. Are we entitled to a visit from the State veterinarian to determine what the disease is and what to do for it? The cattle are losing their flesh and some get so weak they lie down and finally die.  
Ottawa County.

**Answer.**—Your cattle, no doubt, have the above disease, and you are entitled to the services of the State veterinarian to determine exactly and to prescribe treatment. You should lose no time in having them attended to. Notify the Live Stock Sanitary Commission, Topeka, or Dr. N. S. Mayo, Manhattan, Kans.

**Muscular Rheumatism in Hogs.**—I have three hogs that are lame; they get down and can not get up. It appears as though the leaders of their legs are drawn up, and it hurts them very much to move them. I would be thankful for any information you or any one can give me in the matter.  
W. H. PRATHER.  
Leavenworth County.

**Answer.**—For local treatment, bathe the loins with the following liniment: Turpentine and lard, equal parts. Mix and rub well in once a day. Internal treatment: Give one dram of powdered nux vomica in the feed or water twice a day.



Miss Agnes Miller, of Chicago, speaks to young women about dangers of the Menstrual Period—how to avoid pain and suffering and remove the cause by using Lydia E. Pinkham's Vegetable Compound.

"To YOUNG WOMEN:—I suffered for six years with dysmenorrhea (painful periods), so much so that I dreaded every month, as I knew it meant three or four days of intense pain. The doctor said this was due to an inflamed condition of the uterine appendages caused by repeated and neglected colds.

"If young girls only realized how dangerous it is to take cold at this critical time, much suffering would be spared them. Thank God for Lydia E. Pinkham's Vegetable Compound, that was the only medicine which helped me any. Within three weeks after I started to take it, I noticed a marked improvement in my general health, and at the time of my next monthly period the pain had diminished considerably. I kept up the treatment, and was cured a month later. I am like another person since. I am in perfect health, my eyes are brighter, I have added 12 pounds to my weight, my color is good, and I feel light and happy."—MISS AGNES MILLER, 25 Potomac Ave., Chicago, Ill.

The monthly sickness reflects the condition of a woman's health. Anything unusual at that time should have prompt and proper attention. Fifty thousand letters from women prove that Lydia E. Pinkham's Vegetable Compound regulates menstruation and makes those periods painless.

**READ WHAT MISS LINDBECK SAYS:**

"DEAR MRS. PINKHAM:—Lydia E. Pinkham's Vegetable Compound has greatly benefited me. I will tell you how I suffered. My trouble was painful menstruation. I felt as each month went by that I was getting worse. I had severe bearing-down pains in my back and abdomen.

"A friend advised me to try Mrs. Pinkham's medicine. I did so and am now free from all pain during my periods."—JESSIE C. LINDBECK, 1201 6th Street, Rockford, Ill.

**FREE ADVICE TO WOMEN.**

Remember, every woman is cordially invited to write to Mrs. Pinkham if there is anything about her symptoms she does not understand. Mrs. Pinkham's address is Lynn, Mass., her advice is free and cheerfully given to every ailing woman who asks for it. Her advice has restored to health more than one hundred thousand women. Why don't you try it, my sick sisters?

**\$5000 FORFEIT** if we cannot forthwith produce the original letters and signatures of above testimonials, which will prove their absolute genuineness.  
Lydia E. Pinkham Medicine Co., Lynn, Mass.

**The German Nurseries, Beatrice, Neb.**

The people of the West can hardly find all things considered, a better place to look for apple, peach, pear, and other fruit-trees and the small fruits, than the German Nurseries of Carl Sonderegger, at Beatrice, Neb. These nurseries were established in 1886 at Fairbury, Neb., but impelled by better railroad facilities, they began planting four years ago adjacent to the city of Beatrice and now are fully established there, where they have the advantages of three main lines of railroads, with three express companies, enabling them to make prompt shipment of all orders. The 1903 catalogue is before us. With beautiful covers in colors and fine illustrations throughout of the fruits it describes, it suggests a wealth of good things at Beatrice. It is published in German and English, both people contributing largely to its extended business.

A remarkably reasonable price on everything they grow, considering the superiority, distinguishes these nurseries, and in addition they pack everything in the most satisfactory way and pay the freight on shipments. We shall be glad to have our readers send for the Sonderegger catalogue. State whether English or German edition is wanted. It will be found a satisfactory place to buy reliable stock.

**Caustic Balsam Gives Quick Relief.**

Imperial, Neb., Nov. 25, 1902.  
The Lawrence-Williams Co., Cleveland, O.  
When I left Wisconsin for this place I thought I should go out of the stock business, but I am still at it and I want another bottle of GOMBAULT'S CAUSTIC BALSAM, as it will give relief quicker than any other liniment I have ever used. Enclosed find post-office order for \$1.50.—J. S. GIBBS.

## The Stock Interest.

### THOROUGH-BRED STOCK SALES.

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

April 21, 1903—F. P. Healy, Bedford, Iowa, Scotch Shorthorns, at Seneca, Kans.  
April 22, 1903—Shorthorn Breeders' Combination Sale, Bunceton, Mo. C. P. Tutt, Secretary.  
April 22, 1903—Breeders' Combination Sale at Kansas City. W. C. McGavock, Manager.  
May 5-8, 1903—Collin Cameron, at Kansas City, Herefords.

### Fads and Fashions in Percherons.

H. W. AVERY, WAKEFIELD, BEFORE THE SCHOOL IN HORSE-JUDGING, KANSAS STATE AGRICULTURAL COLLEGE.

The proneness of humanity for something new and different seems to be as noticeable in breeding of horses as the selection of wearing apparel. Fortunately these changes do not come and go with quite the same frequency and possibly are not so radical as is practiced by that attractive majority of the human race. Nevertheless, there is a constant changing of the lines and curves and size and weight; the docks, the single-foot, and the canter are as uncertain in the permanency of their social supremacy as the pompadour, the two-step, and the polka.

In the human race we console ourselves that those who worship at the shrine of fashion would accomplish very little at anything else, and do as little harm devoting their attention to fads and fashions fitting around the bright spots rather than to use the time and space a busy world of workers and thinkers need to produce the material to satisfy the world's constantly increasing wants.

The farmer, merchant, laboring-man, and stockman pursue the same tenor of their way without much regard to the edicts of fashion. Some one has said that the draft horse is the laboringman of the equine race. We suppose the comparison might be legitimately carried further and say that the saddler and the "high-stepper" are the "smart set" of equine society. Certainly we find the draft horse associating with the laboringman and the high-steppers rub elbows with bare shoulders and plug hats. It is true that it has injured the reputation and the joy of living for the society horse to mingle with the society man. We do not know whether his moral nature has suffered as much as his physical make-up. We do know he has paid the price of his admission to good society by the sacrificing of one-half the joints of his tail and pretends to have the string-halt in both front legs, smiles and pretends to look pleasant when he suffers torture. So far as we are able to judge the requisites for good standing in horse society do not differ materially from the qualifications that admit one to human society. On the other hand the draft horse has been compelled to mingle with such questionable company as the iceman, and the illiterate "hayseed." In his obscurity we might reasonably think him secure from the evils of fashionable embellishment whatever might have been the effect on his moral nature, but such is not the case. The draft horse has had a rather checkered career, the Percheron its peculiar experience along with the rest. It is said that every breed of horses that has attained prominence is the legitimate product of climate, feed, and treatment of their nativity. Colonel Robison and others have declared to you the nobility of the Percheron race by reason of its ancient ancestry of Arabian blood. I am going to "go the Colonel one better" and quote from Professor Andre Sasson, professor of agriculture at the National Institute of France, who says: "If, in order to be noble, it is necessary to trace descent from far distant ancestors, the race of Percherons has nothing to fear in this respect, for we possess authentic documents concerning its origin, showing in the most positive manner that the Percheron type existed in the very place where it is found to-day during the geological periods which precede our own. This Percheron breed is contemporaneous with the mammoth of alluvial times, and the Crusades, as compared with it, are but yesterday."

Since only a few of you have provided yourselves with lunch, I will hardly be justified in following closely each change that has transformed the Percheron from his early career to the present time, so with your consent we will neglect the first several thousand years of this interesting study and introduce to you this noble animal as the companion of chivalry and feudalism, the carrier of the mailed knight with his shield, armour, and helmet of more than one hundred weight. He is

loved for his strength, his courage, and his speed. These splendid qualities and the genius of his rider made his home famous for its warriors, as history verifies. The Percheron of this time was by no means the heavy horse that you saw in to-day's parade; indeed, if he had been I fear history might have been written different than it is. With the advent of explosives feudalism gave away and civilization began, and the Percheron horse became more useful and necessary than ever before. Invaluable in war, he was indispensable in peace and his country's progress, but his fame was still confined to his native district. He is yet a medium-sized horse of 1,200 to 1,300 pounds, and instead of an armed knight he draws post-coaches, cabs and diligences throughout France. His speed, his endurance, and strength are attracting the attention of the visitors in Paris from all over the world, and the American was not slow to discover his merits.

About this time Professor Sasson, in his work on the origin of the French races of horses, said of the Percheron: "He enjoys in Europe, and even the whole world, the highest consideration. The race has, because of his incontestable merits, carried to all of the world the fame of the little French province, where its best center of production is found. The fame of the Percheron horse is only to be compared to that of the thoroughbred of England; he is a regenerator and an improver."

For a while all went well; the American wanted a heavier animal and the Frenchmen preferred the lighter weights with more speed. But the American demand soon reached such proportions and his prices were so liberal that the breeders of France were glad to humor his every whim, and when the American said "larger horses and more weight" the Frenchman said, "Here." Here began one of the important changes of the Percheron horse, and a change for which the Frenchman never quite forgave the American, who, with his liberal purse, controlled the situation. This was thirty years ago; our memories are beginning to get fresh. But even yet the Percheron was not a large horse probably 1,500 to 1,650 pounds—75 per cent of them were grays. The Frenchman was still loyal to the lighter weights, and the extremely heavy horse has never been given a prominent place in the French shows. The Frenchman maintains that the Percheron has lost in activity and endurance all that he has gained in weight. Louis Napoleon and Success, both pioneer specimens of the Percheron type in America, were horses that ordinarily weighed 1,600 pounds, and to-day Dunham's Brilliant 1271 would be counted an undersized horse, weighing in normal flesh not to exceed 1,800 pounds. Brilliant 3d, admitted by all authorities to be the greatest Percheron of modern times, even in show condition, never exceeded a 1,900-pound mark. We are now within fifteen years of the present time. The Percheron horse has added 500 pounds to his weight and Dame Fashion is just beginning to find fault with his color. Once he was a cab and carriage horse, yes, even a trotting horse; and reliable records are preserved giving his official time over one and one-half mile and two-mile tracks. In forty heats over a two-mile track as late as 1865 the best time made was six minutes and two seconds. Just picture in your minds Colonel Robison, with a jockey-cap, behind a 2,000-pound Percheron, rigged and trigged for a trotting race, scoring for the pole position. Wouldn't it be a pretty stout race? This reminds me of the only time I ever remember of Colonel Robison showing the least embarrassment. He was arguing the merits of the draft horse, when a trotting-horse man asked the Colonel if he did his "sparking" when he was a young man behind a pair of 2,000-pound Percherons. I don't remember what the Colonel's answer was, but if in his youth he possessed any more fascinating and winning ways with the ladies than he does now he could have easily distanced his red-headed accuser of John R. Gentry fame had they been rivals for the same favors.

But we have reached another fad in Percherons and it is color. We increased his size 500 pounds, changed his outline considerable, raised his rump, which was once flat and steep, up to a harmonious level without resort to a baseball mask or any other kind of wired ornamentations. Without knowing its origin or reason for its existence a sentiment seems to settle like the mist over everything and everywhere that a Percheron horse should be black and must not be gray.

The Great Opportunities in the Canadian Northwest are attracting large numbers of settlers from the United States.

## The Canadian Bank of Commerce

Paid-up Capital, - \$8,000,000.00

Eighty Branches throughout Canada and the United States

SAVINGS BANK DEPARTMENT AT EVERY branch. Deposits of One Dollar and upwards received, and interest allowed at current rates.

### BRANCHES IN THE CANADIAN NORTHWEST:

**CALGARY—N. W. T.**  
C. W. Rowley, Mgr.  
**CARMAN—Manitoba.**  
E. C. Complin, Mgr.  
**DAUPHIN—Manitoba.**  
J. S. Munro, Mgr.  
**EDMONTON—N. W. T.**  
T. M. Turnbull, Mgr.  
**ELGIN—Manitoba.**  
G. H. Horne, Mgr.  
**GILBERT PLAINS—Manitoba**  
H. E. P. Jemmett, Mgr.  
**GRANDVIEW—Manitoba.**  
H. E. P. Jemmett, Mgr.  
**MEDICINE HAT—N. W. T.,**  
F. L. Crawford, Mgr.  
**MOOSOMIN—N. W. T.**  
E. M. Saunders, Mgr.  
**NEEPAWA—Manitoba.**  
G. M. Gibbs, Mgr.  
**SWAN RIVER—Manitoba.**  
F. J. Macoun, Mgr.  
**TREHERNE—Manitoba.**  
H. B. Haines, Mgr.  
**WINNIPEG—Manitoba.** John Aird, Mgr.

Address any of the above managers for maps and reliable information concerning his locality if you contemplate removing to Canada's Great and Fertile Northwest.

### Remittances to Europe

Drafts issued payable at all points in Europe, Asia, Australia and America.

FARMERS' NOTES DISCOUNTED, SALES NOTES COLLECTED AND A GENERAL BANKING BUSINESS TRANSACTED.

### BANKING BY MAIL.

Deposits may be made and withdrawn by mail. Out-of-town accounts receive every attention.

LONDON (ENGLAND) OFFICE, 60 LOMBARD ST., E. C.  
HEAD OFFICE, TORONTO, CANADA.

Had there not been an unprecedented panic in the horse market at that time, it would be difficult to speculate what the price of a good black horse might have been. The men who advertise Percheron horses for sale to-day know two things quite well—that there is a wonderful inquiry for stallions that are black and weigh a ton. The following is a fair sample of the subject matter of five out of every seven inquiries an advertiser receives:

"Pondorosity, Kans., Mar. 33, 1903.

"Dear Sir—Please quote me your smallest price on your largest 4-year-old stallion. Must weigh a ton and be black and his ancestors black; must have good bone, style, action, and good disposition. Answer soon.  
(Signed) A JUMBO.

"P. S.—I have had considerable experience with handling horses."

Experience proves that while a number of specifications may be given he will generally yield most of them, but color and size never. We can not understand this craving for size, and few people attempt to explain it. The farmer's hardest work comes in the hottest weather, and a great variety of tasks are such that to be the most useful to the farmer he must be a compromise on extreme weight. We candidly do not believe that legitimate intelligent trade would call for more than a half dozen ton-stallions for the entire State of Kansas, yet inquiries come from nearly every cross-roads for something big and black. How many Shorthorn breeders are there who, after years of effort and careful selection, finally succeed in getting their herds of the desired red just in time to hear Dame Fashion begin her lusty clamor for roan Shorthorns? How many breeders of Percherons or "soon-to-be" breeders of Percherons, can safely assume, if they begin now with a nucleus of black stock that at the end of another ten years they will possess the fashionable color and reap a higher price? Did it ever occur to you how many horses you exclude in using those three words, Percheron, black, and ton? Did you ever stop to think that those three words took you out of a

The Books are Free

## Spavin Lump Jaw

You can cure Bone Spavin, Bog or Blood Spavin, Ringbone, Curb, Splint or any blemish hard or soft, Fistula, Poll Eyt, Sweeney or Knee-Sprung, also Lump Jaw in cattle, with very little trouble or cost. Our two booklets tell you how and prove that you can do it, and we will guarantee you success in every case. Over 140,000 farmers and stockmen are doing it our way. If you have a case to cure write us and we will send you the books free.

FLEMING BROS., Chemists,  
212 Union Stock Yards, Chicago, Ill.

## CAR-SUL CATTLE DIP

CURES Mange and Itch; KILLS Lice, Ticks and Screw-Worms; HEALS Cuts, Wounds, Galls and all Sores.

GUARANTEED to do the work without injury to eyes or other parts of animal. At dealers or by express, prepaid, \$1.50 per gallon. 25 cent cans—dealers only. Special price in quantities. Write to-day for book and free trial Car-Sul. Address

MOORE CHEMICAL CO.,  
1501 Genesee St., Kansas City, Mo.

## STOCKMENS SUPPLIES

Sheep Dips, Tanks, Worm Cures, Ear Marks, Punches, Tattoo Markers, Shearing Machines, Shears, Sheep Marking Paint, Lamb Feeders, Lice Paint, Poultry Supplies, Veterinary Remedies, etc. Write for Catalogue AR.

F. S. BURCH & CO., 144 Illinois St., CHICAGO.

## LUMP JAW

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

Geo. E. Barrett, Columbus, Kan.



King of Woodlawn, property of Silas Igo, Palmyra, Iowa.

E. Reynolds & Son, Prophetstown, Ill., send to this sale-ring a string of young bulls embracing the blood of such noted sires as Moon Eclipser, Young Wellington, Black Knight, Jim Jams, etc.

Marion C. Stone and C. J. Williams each contributes a string of fine bulls for the farm and ranch trade.

G. B. Scott's Brood Sow Sale.

The public sale of Poland-China bred sows and gilts, held at Carbondale, Kans., on March 30, by G. B. Scott; also a small consignment by Bassett Bros., of Burlingame, was quite a gratifying success.

Table listing names and prices for various items at the G. B. Scott's Brood Sow Sale, including John Wear, Henry Ulrich, P. B. Brosemer, etc.

BASSETT BROS' CONSIGNMENT.

Table listing names and prices for various items at the Bassett Bros' Consignment, including W. P. Goode, G. B. Scott, etc.

Quality Counts.

In calling attention to the Taylor sale of pure-bred Shorthorns and Herefords to be held at Manhattan on April 15, we again refer to the fact that this offering in both breeds will show extra quality as well as condition.

In the Shorthorn offering the blood lines are also good and we predict that somebody will pick up a snap here; in fact, if this Shorthorn offering does not realize handsome prices we shall feel a keen sense of disappointment both in the accuracy of our judgment and the appreciation in which good Shorthorns are held in the vicinity of Manhattan which is one of the old Shorthorn centers of the State.

Hereford Men Organize.

The Hereford breeders of central Missouri met at Moberly and organized the Central Missouri Hereford Breeders' association, taking in the counties of Macon, Shelby, Monroe, Randolph, Chariton, Audrain and Boone.

The association was formed for the purpose of making an organized effort to advance Hereford interests in central Missouri and for holding sales of pure-bred Hereford cattle at chief railroad centers in these counties.

Gossip About Stock.

The only opportunity to buy representative Aberdeen-Angus cattle at auction this spring will be on the occasion of the breeders' combination sale to be held at Kansas City, Wednesday, April 22, 1903, at which time seventy head comprising forty bulls of serviceable age and thirty cows and heifers will be sold.

The Willing Horse

Dr. Hess' Stock Food given twice a day, in tablespoon doses, makes a horse fit for any task, and willing at any work. It improves the coat, purifies the blood, removes dropsical swellings and stocking of the legs, prevents cracked or greased heel, cures distemper, indigestion, constipation, worms and scratches, and is a tonic to the organs of reproduction.

Dr. Hess' Stock Food

In every package of Dr. Hess' Stock Food is a little yellow card entitling the purchaser to free prescription for his stock by Dr. Hess.

DR. HESS' Great Stock Book

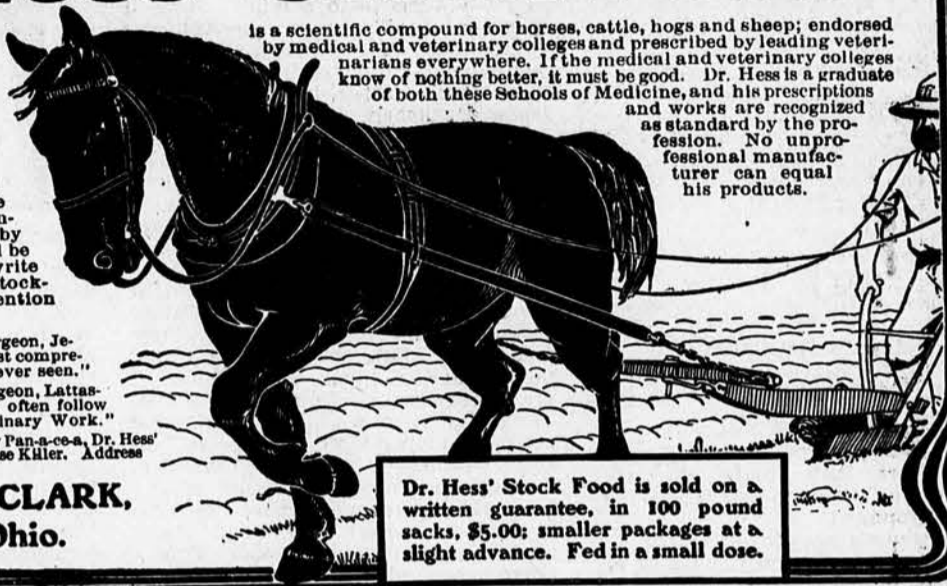
on diseases of animals and poultry, the only complete treatise for popular use, consulted and recommended by prominent veterinarians, will be sent free, postpaid, if you write what stock you have; what stock-food, you have used; and mention this paper.

C. M. McCLAIN, Veterinary Surgeon, Romeville, O., says: "It is the most comprehensive work for farmers I have ever seen."

H. H. LAYMAN, Veterinary Surgeon, Lattsburg, O., says: "In my practice I often follow suggestions given in your Veterinary Work."

We also make Dr. Hess' Poultry Pan-a-cosa, Dr. Hess' Healing Powder and Instant Louse Killer. Address

DR. HESS & CLARK, Ashland, Ohio.



Dr. Hess' Stock Food is sold on a written guarantee, in 100 pound sacks, \$5.00; smaller packages at a slight advance. Fed in a small dose.

ing will consist of consignments from leading Kansas and Missouri herds. For catalogue address W. C. McGavock, Mt. Pulaski, Ill. Further particulars next week.

L. H. Kilbourn, Albion, Neb., held a public sale of Shorthorn cattle with little previous announcement on March 28, and sold forty-one head for \$5,000, an average of \$122. Thirty-one females averaged \$135, and ten bulls sold from \$75 to \$118, making an average of \$81.50.

J. L. Shore, manager of the Golden Belt Stud, of White City, Kans., who has a number of trotting and pacing stallions for sale, announces that young Patchen Wilkes, cousin of the \$60,000 Dan Patch, is 1:59 1/4 and nephew of the iron race horse, Joe Patchen, 2:01 1/4, with other fine stallions will be at the Topeka fairgrounds to make the season for mares during April, 1903. For further information, address Mr. Shore as above.

A letter just received from Mr. W. W. Taylor informs us that his catalogue for the great combination sale of Herefords and Shorthorns to be held by himself and father at Manhattan, Kans., on April 15, are just ready for distribution and may be had by addressing Col. L. R. Brady, at Manhattan. These catalogues will contain some valuable reading matter to breeders both young and old who are interested in good cattle.

Mr. S. S. Spangler, Milan, Mo., who does not seem to be content to stop business because of the fame he won last month by making an average of \$514 in his sale of Percheron mares and stallions, has just been over to Kansas and bought a load of choice road horses. These are strongly bred in George Wilkes and Mambrino Russell blood and we understand it is the purpose of Mr. Spangler to fit these youngsters for his great annual sale which will take place during the spring of 1904.

The next great auction sale of fast horses will be held at the Wichita fair-ground, Wichita, Kans., May 5, 6, and 7, under the auspices of the Wichita Horse Sale Company. Among the notable horsemen composing this company may be mentioned, J. V. Chandler, Wichita, Kans., president; J. T. Hessel, Cheney, Kans., vice-president; F. A. Russell, Wichita, Kans., treasurer; and J. S. Lehr, Eldorado, Kans., secretary. Kansas horsemen who wish to make entries for this great sale, which will consist of some of the fastest and best-bred horses ever sold in the State, should send for entry blanks to J. S. Lehr, Eldorado, Kans.

A three-days' combination sale of Shorthorns and Polled Durhams was concluded at Newton, Iowa, on Thursday, March 19. The last day of the sale was occupied by the auctioneers in disposing of the Polled Durhams and Shorthorns consigned by F. F. Fallor, Newton, Iowa. While there appears to have been a good crowd present the prices generally did not rule high. But as these sales came immediately after the dispersion sale of the Bigler cattle perhaps this fact is sufficiently explanatory. The summary of Mr. Fallor's sale is as follows:

Table showing sale statistics for F. F. Fallor's sale: 35 cows brought \$3,440; average \$98.30; 8 bulls brought \$85; average \$123.12; 43 head brought \$4,425; average \$102.90.

Under date of March 25 comes the announcement that Major Maude, who has been with the British remount service in Australia, arrived in New Orleans for the purpose of arranging for the shipment of Texas cattle to South Africa for the purpose of restocking the depleted farms and ranches. The Major states that no horses or mules will be shipped, as they are now in excess in that country since the Beer war. A number of ships have been char-

40 Shorthorns at Auction.

Sale at Falls City, Neb., Saturday, April 18, 1903.

...25 COWS AND HEIFERS...

.....15 BULLS.....

The great red pure Scotch bull, Gloster's 2d Duke by Imp. Salamis included.

12--Grand Daughters--12

and

15--Grandsons--15

of

Imp. Salimis.

For sale catalogue, write

JOB GOSLEE,

SKIDMORE - - - MISSOURI

Ools, Woods, Harding, and Marlon, Auctioneers.

Draft Stallions.

I have for sale six heavy, pedigree stallions at BAILEY'S BARN, MANHATTAN, KANS., ages 3 to 6 years; weight 1,500 to 2,000 pounds. One imported Clyde, one Shire, and four Percherons; all good colors. These stallions are from Singmaster & Sons' famous breeding establishment at Keota, Iowa.

Be sure and see them soon, as they are for sale at right prices and on easy terms.

ELI ELLIOTT.

tered, and the government plans to buy cattle in Texas and ship to South Africa for sale at cost price to the burghers for the restocking of their farms and ranches. They have the idea that Texas cattle will be more preferable because of the more nearly allied climate to which they are accustomed.

One of the strongest and most useful associations in the country is the Central Shorthorn Breeders' Association, of which T. J. Wornall, Liberty, Mo., is president. This is not a record association but is purely for the purpose of spreading knowledge that is helpful to

both the experienced breeder and the beginner. It holds annual meetings at which the papers read and the discussions had are of a very high order. Its last annual meeting was held at Lincoln, Neb., during the week in which the State Board of Agriculture held its sessions there and a number of the papers read at that time have been published in the Kansas Farmer. The next annual meeting will be held at St. Joseph, Mo., and President Wornall has arranged to give a handsome banner to the State furnishing the largest delegation at that meeting. This banner will be the permanent (Continued on page 384.)





boards and thus drew myself up where I was safe from drowning, but the fear that the bridge would drift on and on and I would not be rescued took possession of me, and I kept praying that something would happen to check the bridge, when all of a sudden it gave a sideways lurch and was securely lodged in the tops of some trees. I had not remained there very long when I saw my brother on the other bank and he called to me to not be afraid for he would soon come with help. After knowing I would be saved my first thought was for Hector. Where was he? When my brother returned with a boat and I was safe in my mother's arms, I asked him if he had seen Hector. He said, "Yes, but not for quite awhile." I started out to find the friend who had been so faithful. I had not gone far when I discovered his body near the edge of the creek where it was lodged in some debris, but life was extinct and he had evidently been dead some time. He was taken home and buried; and some of the bitterest tears I ever shed were for the dog who had always been my friend. Who can say why he plunged into the creek? Was it with a thought to follow me and save me or was it from a desire to end his own life, thinking I was dead? Many years have passed away and I am old now, and I often sit and think of Hector, my friend.

"LOUISE."

### For the Little Ones

#### THE SNOWDROP.

Were I a snowdrop pale,  
How I could rejoice  
To slip up through the cold, dark earth  
At the Springtide's silver voice.  
I should hear it through the prising sods  
above,  
Faint though it would be,  
O'er all sounds in the world, a distant call  
From over land and sea.

How I should rear my head  
From out my sheath of green,  
At the first breath of the cool, crisp air,  
I'd soon forget I'd been  
A prisoner below the green earth floor,  
A prisoner longing for the glad release  
For ten long months, and more.

How I should pine to see again  
All living, loving things;  
To look up through a world of trees and twigs,  
To hear the rush of wings;  
To see the great, wide sky spread overhead,  
Where all was dark before;  
To know that half the world was weeping  
Tears of joy  
To see the snowdrop nodding at the door.

#### Etta's Easter Lily.

One day last fall Etta's mother brought her an ugly brown thing that looked a good deal like an onion.

"This is yours, dear," said mother. "Mine!" said Etta. "What is it, mama?"

"Plant it, and some day you will know what it is," answered mother.

So Etta found a little old wooden box, into which she put some good rich dirt, and the brown thing.

Mother told her to keep it in the sunshine, and to water it, which she did very carefully. One day a tiny green stalk stuck its head through the dirt. Then Etta was happy, indeed.

"Oh, mama!" she cried, clapping her hands. "It's a little plant! What kind of a plant is it?"

"Wait and see," said mother.

So Etta waited and waited, a long, long time, all through the cold and stormy winter. But at last, when the birds were just beginning to come back, and the sun shone brightly, and the south wind began to whisper that spring was coming, three lovely buds began to grow upon Etta's plant, which was tall and strong by this time.

"Oh, what kind of a flower is it going to be, mama?" she begged.

But mother only said, "Wait a little longer."

At length, and it was on Easter morning, the buds burst into bloom, three beautiful, fragrant, white lillies.

"Oh, they are Easter lillies!" said Etta, and she was very glad.

Then mother told her about what Easter day is for, and how the Easter lily was like her own little self, who could make every body happy by simply being sweet and clean.

"Now, dear," said mother, oh, so gently, "what shall we do with the lily?"

Etta thought about it for a long time, then she remembered poor old grandmother Hunt, who lived about a mile down the road with a big cross man, and who was sick all the time, and had no little girl to make her happy.

So in the afternoon she took it down to Grandmother Hunt. When grandmother saw the beautiful white thing, she almost cried—yes, Etta was sure she saw tears in grandmother's eyes.

"You dear little girl!" cried Grandmother Hunt. "You are as sweet as an Easter lily yourself."

### Puzzle Corner

#### Riddles.

1. Why is the wind blind?
2. What man is born with three hands?
3. Why does a hen give you more corn than she eats?

#### Beheadings.

4. Behead to mingle, and leave to loan; behead again, and leave the last of anything.
5. Behead an interrogative pronoun, and leave a covering for the head; behead again, and leave a preposition of two letters.

#### Charades.

6. My first is something in which people ride; my second is called "mightier than the sword;" my third means to make a rent. My whole is a certain kind of laborer.

#### Answers.

1. He can pick down from the stork.
2. You, dead.
3. Because Pharaoh made a ruler of him.
4. Washington.
5. Esteem.
6. Intricate.

### Grange Department.

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

Conducted by Ed. Blair, Cadmus, to whom all correspondence for this department should be addressed. Papers from Kansas Granges are especially solicited.

#### NATIONAL GRANGE.

Master.....Aaron Jones, South Bend, Ind.  
Lecturer.....N. J. Bacheider, Concord, N. H.  
Secretary, John Trimble, 514 F St., Washington, D. C.

#### KANSAS STATE GRANGE.

Master.....E. W. Westgate, Manhattan  
Overseer.....J. C. Lovett, Bucyrus  
Lecturer.....Ole Hfner, Olathe  
Steward.....R. C. Post, Spring Hill  
Assistant Steward.....W. H. Coultis, Richland  
Chaplain.....Mrs. M. J. Ramage, Arkansas City  
Treasurer.....Wm. Henry, Olathe  
Secretary.....Geo. Black, Olathe  
Gate Keeper.....G. F. Kyner, Lone Elm  
Ceres.....Mrs. M. J. Allison, Lyndon  
Pomona.....Mrs. Ida E. Filer, Madison  
Flora.....Mrs. L. J. Lovett, Larned  
L. A. S.....Mrs. Lola Radcliff, Overbrook

#### EXECUTIVE COMMITTEE.

Henry Rhoades.....Gardner  
J. T. Lincoln.....Olpe  
A. P. Reardon.....McLouth

#### Grange Opportunity.

We believe there is a general awakening among farmers at present as to the necessity of more thorough and compact organization among the agriculturists of the State. This interest is not confined alone to communities in which farmers' organizations of some kind are already located, but it seems to be pretty general over the country. This indicates a revival in the grange. For the grange is the only farm organization that has a State and National head. It is the only one that brings the right kind of influence to bear upon the law making powers of the State and Nation. The farmers are beginning slowly to recognize this fact, and the sooner they begin to realize that they will never accomplish much in the way of correcting any of the evils of the day except through the agency of some organized body, the better it will be. They should know that men must unite for a common purpose who have a community of interest, and who are all alike interested in the accomplishment of a common purpose if they would succeed. The much talked of trusts are simply the combination of commercial interests similar in character and purpose. They simply recognize the strength that comes from combined influence and interest and are ready to use any advantages that are likely to result from such action. The business men of the country are not slow to take advantage, too, of anything that will give them strength, influence or profit. And the result is that there is scarcely a business of any kind in the whole country but is affected by this spirit of organization, combining business interests for the purpose of protection or profit or both. And it seems to us that with the general intelligence now prevalent among the agricultural population they, too, should take advantage of any good that may be likely to come from organized effort. The farmers have just as much need of protecting their own interests as any other class of business men. If there is any possible good to come from bringing themselves together in some form of organization the farmers should have it. And the grange possesses so many strong and commendable features that a thinking man or

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woman who views it in an unprejudiced manner can not help but see it in that light and act accordingly.

This spirit of inquiry referred to above as manifesting itself among the members of the grange wherever seen, and encouraged and fostered in every way possible. We believe the time is near when the more thoughtful farmers of the country shall feel the lack of influence and power when compared with other business men, and look for some place or society through which they can exercise their proper influence both in business and in politics. So let us all enter upon the work of explaining and spreading the gospel of grange truth in such a way as to bring many new recruits to our noble order the present year. This can only be done by concerted action on the part of all, whether officers or members. Do not rely entirely upon the State or county officers to do all the work. While they are generally willing to do all they can in their respective positions yet it is impossible for them to reach all. The county deputy and lecturers may be ever so anxious and ever so willing to reach out and draw in all within their reach, yet there are many localities where greater influence can be exercised by the members of the subordinate grange in bringing in new members than either county or State officers. We have in mind an instance a few years since where the people of that neighborhood seemed ripe for an organization. A meeting was called and a very sensible and eloquent presentation of grange principles was made by a State officer at the meeting but the organization failed. And the reason given by one of the leading spirits was that the speaker did not seem to get a right hold upon the people. He did not understand the situation in that immediate locality correctly, hence he failed. This was no fault of the speaker. Neither did our informant lay the blame upon him, but on the contrary commended his address very highly, but said, had the local organizer with whom the people were all acquainted and who understood the local conditions been there, an organization would have been effected. We mention this for the encouragement of local workers everywhere, as great good can be done by vigilant and industrious effort on the part of all who feel an interest in the growth and prosperity of the grange.—JOHN BEGG, Lecturer O. S. G., in Stockman and Farmer.

#### Grange Training.

At a recent Pomona Grange meeting in Ohio the principal topic discussed was "How the Grange Prepares Its Members for Public Positions." The lecturer said he wanted a general expression, so began at one part of the hall and called upon all in turn. Many apt illustrations were given. One brother said he had been a member of the Grange for thirty years and had watched its work and influence very carefully, and had it not been for his firm conviction of the usefulness and

helpfulness of the Grange in training and preparing men and women for greater usefulness in the various walks of life—including public office—he should have dropped it long ago. He gave it as his opinion that the Grange presented the best opportunity of which he knew to the young man of the farm who wanted to rise in the world. It was cited that in the Grange embarrassment was overcome—subjects of wide importance were thoroughly investigated, and members thus were taught to weigh all sides, and by practice learned to impart intelligently the impressions made upon them. An example was cited where thirty years ago a class joined the Grange, one of which was a bright young man who was teaching school. Afterwards he entered into business and was fairly successful. He was not much impressed with the Grange—it must be admitted some granges in the early history of Grange work were a little crude—and so he dropped out after a short time. Not long since, this same man was reinstated in the Grange, and some of the members were those that were in his class thirty years ago. In due time the lecture hour arrived and he was called upon for remarks, and the rambling, stumbling manner in which he answered not only surprised the members but called forth from several the expression "I feel sorry for him." Instances were named where the training obtained through the office of secretary had given members nice positions. The Mutual Insurance Association of Ohio was said to be largely started and officered by those who had been trained in the Grange.

A study of the lecturers of the farmers' institutes of Ohio revealed the fact that a large per cent of them were members of the Grange, while prominent positions in county, State, and Nation were held by Patrons. The Grange has not only given its members a practical training for public positions, but it has encouraged men of worth to come to the front and the powers that be are quick to recognize them.—Patron and Cooperator.

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AN O

"O aged man, pray, Now answer me...

Mayor's CLAR

The mob bec Turn where the gleamed, resistan were surrounded.

The Home Circle.

Conducted by Ruth Cowgill.

AN EASTER SONG.

Arise, my heart, and sing thy Easter song! To the great anthem of returning bird...

Easter and Its Observance.

Easter is the most beautiful anniversary that we have to celebrate. It is the one whose early significance has been least concealed and most sweetly exemplified by latter-day observances.

This day should never be unnoticed in the home. Its beautiful significance should be taught and illustrated with all of nature's illustrations of its truth.

A Few Easter Recipes.

Gelatine Eggs.—Make a small hole in the end of each egg, and carefully shake out the contents, which can be used for an omelet, or any other cooking that requires eggs...

To Amuse the Children on Rainy Days.

To be compelled to stay in the house either because the weather is unfit or because one has a bad cold, is, in the child's eyes, a great and unjust affliction...

themselves, while mother works about the room. They are simple devices, inexpensive and easily prepared. A scrap-book will fill many happy hours.

When scrap-books are beginning to grow tiresome, try the children with a puzzle. Home-made puzzles are as good as any. Cut up some old, and preferably brightly colored picture, into many pieces of different sizes and shapes...



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One person can secure one copy free of Watkins' Home Doctor and Cook Book by writing The J. R. Watkins Medical Co., 28 Liberty St., Winona, Minn.

boxes, to be transplanted later into the garden, will be a pleasure to them that will well repay the little time spent in showing them how.

I remember an amusement which was the joy of my childish life. This was to obtain some putty—I am sure I do not know where from—and, working it into fine shape, make it into boys, and beasts, and divers queer-looking creatures—a very absorbing pastime, albeit rather a trying one for white aprons and clean hands.

Doubtless many variations of these simple devices will suggest themselves to the minds of mothers. The main point is to apply the principle that two things can not occupy little minds at the same time, and to provide the thing which is harmless as well as interesting; in some way educational as well as amusing.

Club Department.

A Suggestion.

We have an enthusiastic report this week from the club in Darlington township. Widely though the different clubs vary in work and in numbers, there is this one particular in which they all agree without exception, i. e., the enthusiasm of the members!

We have a suggestion to make which is also a request. Whenever in your club meetings you hear a paper which seems to you too good to be confined to the hearing of the small number of the club (which will happen many times, and doubtless has happened before), send the paper to us, and we will publish it in our Club Department, thereby giving the benefit of its teachings to many lonely women who have not the advantage of the interchange of ideas which you have in your frequent meetings, as well as to other clubs who many times will find much of helpfulness in thus hearing from sister clubs far distant.

We will you not do this for us, and for each other? We leave it to your discretion, hoping to learn of its being acted upon, by the receipt of some excellent paper.

The Organization of a Country Club.

Now is the time of year to organize country clubs, just before the busy time of house cleaning and the beginning of gardening and other spring work. Let two or three ladies (or only one lady if she be so minded) resolve to infuse a little life in the neighborhood and organize a club where the busy, weary farmer's wife may have rest and recreation for two or three hours twice a month—which will be far less time spent away from home duties than is spent by the husband away from his farm.

After having talked the matter over among themselves, as to what ladies in the neighborhood would be eligible and desirable, and as to which one of them would entertain the ladies, what day would be suitable, and any other preliminaries that might suggest themselves, let them send notes of invitation to these ladies requesting their presence at the home selected at a

designated hour and day, say at 2 p. m., Thursday, April 16, for the purpose of talking of the advisability of organizing a woman's club, signed by the ladies sending the invitation.

On the day appointed most if not all the ladies will come, the novelty of the thing will bring some, while very many women have read much of woman's clubs and are anxious and willing to join one and are glad of the opportunity.

After the guests have assembled and exchanged the usual greetings of friends and neighbors who have not seen each other for some time, the hostess or other member of the receiving party who is the best talker will call attention of the ladies to the object of the meeting and will clearly set forth the benefits and pleasures to be derived from the club. When she has finished, let her call for other ladies to talk in an informal way as to what they think of joining a club.

When all have signed it who will, the lady who has assumed the chairmanship of the meeting calls attention to the fact that there must be some officers elected, and the ladies proceed to elect president, vice-president, secretary, and treasurer; after which they may discuss a suitable name for their club, and if they choose, vote upon it or leave it over to be decided at the next meeting.

The committee on program must prepare a program for the next meeting which must be read before the meeting adjourns; also a place for the next meeting must be chosen, usually some lady offers her home which is accepted by vote.

At this juncture the hostess serves light refreshments of never more than three articles, say sandwiches, cake, and coffee; after which the club adjourns to meet again in two weeks.

We wish to add this to the lunch question: Most city clubs do not have lunch except at the opening and closing meetings of their club year, most of the members preferring not to have lunch.

The Ladies Reading Club of Darlington Township.

Our country club was organized November 20, 1902, and was named "The Ladies Reading Club of Darlington

Township." It was understood that ladies from other townships would be cordially welcomed and we have one member who lives in the adjoining county. Our club numbers eight members and a more enthusiastic, harmonious little circle would be hard to find. As to our programs, at first we copied some from the "Bay View Reading Circle" course. Later, we made a change, allowing the members to select any topic they wished for a paper or for discussion. At our first meeting the subjects were principally on the New England States. As it was near Thanksgiving so many interesting things were told about the celebration of that day in earlier times. These are some of the topics discussed: "Resources of South Africa," "The Big Trees of California," "Current Events," "Household Economies." Every three months, we hope to give a banquet, to which are to be invited the husbands, brothers, and sweethearts. Our object is to uplift and enrich our lives. The club work broadens our views, deepens our sympathies and makes us more helpful. One woman remarked, "Oh, I hope that I will become so interested in this work that I will forget the little annoyances of life." The club meetings are very restful as they are a complete change from the routine of the daily life on a farm.

The Club Department in KANSAS FARMER will be an inspiration to us. Many of the articles contained in it will be read before the club which meets once in two weeks.

MRS. F. C. KESSLER.

Harvey County.

Easter renews hope, it strengthens faith, quickens charity. It comforts bereavement, reproaches doubt and stimulates consecration. It is an unanswered argument for Christianity. It is the blossom of the Christian year.—Elizabeth Stuart Phelps.

## Horticulture.

Preparing for a Big Crop of Apples.  
HON. EDWIN TAYLOR, BEFORE MISSOURI VALLEY HORTICULTURAL SOCIETY.

There is a man over in Kansas who writes beautifully for the agricultural papers. His articles are elegant pieces of word-carpentry, and the accounts he gives of his doings, his thrift, his short-cuts in work, and his notable achievements as a farmer have a tendency to raise the price of land wherever they are read, or whenever a city man gets under the spell of one of those articles and smells the lilacs and tastes the bliss, and has "success with flowers" and everything else he grows in in his mind, he just rushes off to a real estate agent and the real estate man does the rest. In order that you may not guess from anything I say whom I have in mind, I will call this gentleman's name Arthur Intertaken. This last fall one of Mr. Intertaken's neighbors took dinner with me. "Let me see," I said to my visitor, "you live in Arthur Intertaken's county, don't you?"

"Yes," said my friend, "I know Intertaken quite well. I live in the city of So-and-So, and he lives on his farm about seven miles out of town."

"Ever been on his place?" I inquired.

"Oh, yes," said the gentleman.

"Well," I said, "I suppose Intertaken's farming is just simply great."

"Oh, it's fair," said my caller, "but Intertaken's farming isn't near as great to look at as it is to read about in the articles that Intertaken writes." Did you never notice that a good many of us farmers belong to that same family of writers? I am the only one of the clan present that I recognize, but there are a good many of us on both sides of the State line. On paper, our crops, our animals, our methods and our profits are hard to beat, but on land our operations fall to dazle.

It is not always true, but it is sometimes true, that what an agriculturist publishes is in inverse ratio to what he accomplishes. There is an orchardist in this city who has packed a hundred car-loads of apples off his own trees in a single season, and I have never yet seen his name in print about it, not to speak of his undertaking to tell a large and intelligent audience how he manages it. There is Brother Bayless, for instance, who spent some four thousand dollars spraying his orchard year before last, and then sold the resulting crop of apples on the trees for \$25,000; but who ever saw him in the papers?

But it is different with me. Not having had any apples to speak of for a considerable length of time, the com-

mittee has done well to assign me the important subject of the "Proper Preparation for Another Glorious Apple Campaign." If I am a little short on apples, I am long on lead pencils, not too soft, and if allowed plenty of paper and permitted to use the loud pedal on my imagination, I can give advice on orchard in the "spring time, gentle Annie," to beat the band. At the same time, I should like to know, between ourselves, on the—not on the "square" but on the sign of our order, the Horticultural Fraternity, let it be the berry-box, the step-ladder, or the apple barrel—I should like to know, I say, just what would be the best treatment this spring for your orchards and mine. If I were writing for the press, now, it would be different; I wouldn't own up to a thing. I would say to one inquirer "go," and to another "come," and to another "do this," and he would do it—once. When an agricultural writer hesitates he's lost. He should always be ready with a good, mouth-filling discourse, and the hazier he may be about his prescriptions the stronger he should come out in his explanations. But among friends, I'll confess that I am often at a loss to know what is best to do, not only in my orcharding, but in two or three matters outside of it. I suspect candor would compel you to own that many of you have had these symptoms yourselves.

Some of my trees, for instance, are old and large, with the limbs so long and hanging so close to the ground that there is no going about the trees with horses, and there is danger of making a Venetian blind—or any other man—if he should attempt to go in under those limbs to pick or to pick up. The rows of trees don't quite touch yet—there is quite a space between them—and I studied long before deciding whether to cut out those lower limbs and plow the orchard or not.

Up in York State they are famous for apples, and my native State of Michigan also does its share in breaking the apple market every now and then. Well, they don't allow limbs on the ground in that country, but on the contrary trim their trees up so that they can work right up to the trunks. So far, I haven't done more with those lower limbs than to restrain myself when I went in to make the situation more to my liking—I compromised on cutting out some of the lowest and the thickest.

I also plowed the open spaces between the rows and got around between the trees as well as possible. This was a year ago. When spring came on the orchard was faithfully cultivated till along about the first of June, when the cares of the world and the deceitfulness of potatoes caused me to neglect the orchard culture. The weeds and grass came on astonishingly. Without knowing it, I had the mulch crop that some orchardists make so much account of in the horticultural journals. Had this crop been cut with a mowing machine the first of September I might have been better off. I might not. I think the professional agricultural writers always cut their mulch crops—on paper. If I had plowed the ground again last fall and turned the weeds and grass under, I should at least be in less hazard from fire. The orchard is partially plowed, but only in part. The freezing weather last fall caught me unprepared for it. A certain class of people are ready—belong to what Mr. Gough used to call the three-handed family; two hands like yours and a little behind hand. Supposing I plow again in the spring? And if I plow shall I sow clover? Suppose I do sow clover, what shall I do with it? Make hay to be hauled off, cut it and use it for mulch about the trees, or should it be cut and left to lie on the ground? Heretofore I have felt constrained to make hay of the orchard clover and put the same in the barn. The next clover cut in the orchard will be left where it falls.

If one were going to sow an orchard in clover this spring he would find the seed would cost him right around \$2 per acre. Under such circumstances it is imperative to get a stand. Suppose the ground were fall-plowed, how would the latter part of March do for sowing? Should the clover seed be harrowed in, merely, or should it also be rolled in?

Suppose one had large trees, and the tops were congested with brush, should there be any surgery? A year ago at this time I had half a dozen men amputating water-sprouts and other unnecessary wood. The books say every large stump of a limb should be painted, but trimming can be done without painting the stumps. I found it cost about 7 cents a tree to do this work as we did it. The brush-hauling was an important job, but by mak-

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ing a sled for hauling it with, much of the labor was saved. After all, the brush-hauling cost fully 2 cents a tree.

There were no apples to speak of in that orchard last year and I have often wondered whether I was justified in that trimming. Possibly the future has a reward for it in store. Why there were no apples is a puzzle to me. There was bloom enough to make all kinds of a crop and the trees were sprayed until the little apples were so nearly all dropped off that it became apparent that if there was going to be anything saved out of that crop it would have to be the blue-vitriol.

I don't think the committee intended me to discuss spraying and I won't. But, perhaps, I may be allowed to remark that it is a thousand pities that it is so laborious and tedious a job. It is like cutting alfalfa; you are no sooner done with it once than you have to do it again.

Over in Kansas they are telling this story of Professor Cottrell, who was the life of our Agricultural College while he was with it. Cottrell was an enthusiast on the subject of alfalfa. He was also a great farmers' institute man. Wherever he went he preached his alfalfa crusade like another Peter the Hermit, and the farmers caught fire from him just as the peasants did from Peter. It was in the fifth year of Cottrell's rounds as an institute spell-binder that he was invited to make his home during the institute he was holding at a certain town at the home of a prominent farmer. History doesn't relate how it came about that he went to the house unattended, but he did and presented his card to good-wife when she came to the door. "I've a notion not to let you in," she said. "You are the very man that talked my husband into sowing forty acres of alfalfa once, and he has been haying ever since!"

Spraying is just as insistent while it lasts as haying, and it is a lot bluer and meaner job.

It is a fair criticism on most agricultural writing, both in papers and in books, that it is lacking in details. The principles involved, or supposed to be involved, in farm processes are too often dwelt upon with iteration while the methods get but scant notice. The adjustment of his different tools is far more important to the corn-grower than either the chemistry of the soil or

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 Greatest, Cheapest Food on Earth for Sheep, Swine, Cattle, etc.  
 Will be worth \$100 to you to read what Salzer's catalog says about rape.  
**Billion Dollar Grass** will positively make you rich; 12 tons of hay and lots of pasture per acre, so also Bromus, Peasants, Speltz, Macaroni wheat for arid, hot soils, 65 bus. per acre. 20th Century Oats, 250 bus. per acre and Teosinte, Yields 100 tons Green Fodder per acre.  
 For this Notice and 10c. we mail big catalog and 10 Farm Seed Novelties, fully worth \$10 to get a start.  
**JOHN A. SALZER SEED CO. LA CROSSE, WIS.**

**Trees That Grow**  
 The best and hardiest varieties. See our prices.  
 Grafted Apple, 4/10.  
 Budded Peach, 5/10.  
 Concord Grape, 5c.  
 Black Locust, 5c.  
 Seedlings \$1 per 1000.  
**German Nurseries**  
 We Pay the Freight.  
 Illustrated Catalog, German or English free.  
 German Nurseries, Carl Sonderberger, Prop., Box 9, Beatrice, Neb.

**FOR OVER SIXTY YEARS**  
 An old and Well-Tried Remedy. Mrs. Winslow's Soothing Syrup has been used for over Sixty Years by Millions of Mothers for their Children while Teething, with Perfect Success. It soothes the Child, softens the Gums, allays all Pain; cures Wind Colic, and is the best remedy for Diarrhoea. Sold by druggists in every part of the world. Be sure and ask for Mrs. Winslow's Soothing Syrup and take no other kind.  
 Twenty-five Cents a Bottle.

**Have You Tried Pencilaria?**  
 The wonderful fodder plant. Yields three to seven crops each season from one planting and has produced 95 tons per acre in a carefully weighed test. Highly nutritious and relished by cattle, horses and hogs; does well in all parts of the United States. Seeds are small so that one pound will plant an acre; **Grows 12 Feet High.** Price per lb. 75c; 1/2 lb. 25c. Sample free if you mention this paper. Ask for our large illustrated catalogue of farm and garden seeds.  
**IOWA SEED COMPANY,**  
 Des Moines, Iowa.

the botany of the plant. And in spraying, exactly how to do it is a puzzle—a puzzle as well to those who direct it. I will instance one particular: I have never seen it hinted in print that the spray wagon should not go to the supply tank but that, instead, the supply tank should go to the spray wagon. The effectiveness of an outfit is increased 10 per cent to 25 per cent, sometimes even more by this simple observance.

During the War of the Rebellion, which most of you are too young to recollect, we used to say of news which was too good to be true, that it came by "grape-vine telegraph." And when I have heard Brother Johnston enlarge upon his dust-spray process, I have wondered whether it is also a grape-vine proposition or whether it is the coming method of putting pizen on the pervasive and promiscuous and pollymorphous bug. I have used the dust spray myself and it is likely I shall use it more, for when I did use it once we had good apples, mainly running No. 1. It is easy to find an illustration supporting the truth of nearly any theory of farm procedure which may be advanced, and yet the truth be told. If I should stop here in my account of dust spray my story would be accepted as good evidence of its effectiveness. But now I'll tell the whole truth. That dust spray was applied to a Jonathan orchard in the first year of bearing, and a Jonathan tree, well attended on good ground, for its first crop will make choice fruit whether you spray it with liquid or dust, or bone over your shoulder. I don't say bone over your shoulder. I don't say dust spray won't do good under any circumstances on vigorous young trees, but I feel most sure of it.

I think it was the year I was 5 years old that my father planted an orchard, and in about five years thereafter every spring found me painting those trees from the ground to high up in the branches with lye. I got too much of it in my eyes to forget about it. It was the only orchard in the neighborhood that was so treated and the trunks of those trees had a glossy appearance that other orchard trees did not have. I wonder if the trees were better for this treatment, and I wonder if they would have got it if there hadn't been a small boy available. I wonder if it paid. I wonder if it would pay now—on your orchards and mine. We often see tree washes spoken of in print. Sometimes they are advertised for sale, but I don't know of any live orchardist who has any considerable number of trees, who uses any wash or paint for his trees. For a long time I carried a printed formula of a tree wash warranted to do great things for apple trees. The author lives near Lecompton. I wrote him for particulars and sent a stamp. The stamp didn't come back.

Jim Bennett used to maintain that there were two ways to feed hogs that paid: One was to feed nothing, then whatever gain the pig made or what he stole was all profit; the other way was to feed all the hogs would eat, then there would be some gain. I am not sure that there isn't a sort of parallel between hogs and trees.

I close my advice to the young orchardist with the strong injunction to either attend well and carefully to his trees, giving them what old man Gaines used to call "the justice work," or else save his labor and let them alone. If the latter policy is pursued, it suggests an important step as a precursor to his orcharding—viz: his signing the pledge to abstain from orchards entirely.

**A PACKING-HOUSE MERGER.**

(Continued from page 377.)

about by the purchase of the Omaha Packing Company, Omaha; the Hammond Packing Company, St. Joseph; the G. H. Hammond Company, Chicago; the Hutchinson Packing Company, Hutchinson, Kans.; the Anglo-American Provision Company, Chicago; the United Dressed Beef Company, New York; and the Fowler Packing Company, Kansas City. These concerns were some time ago purchased by J. Ogden Armour, G. F. Swift, and Edward Morris. A New Jersey charter was obtained for the National Packing Company. Deeds to the seven properties above named were made by Armour, Swift, and Morris.

These independent concerns now come under control of the great packing magnates. Legal complications with Uncle Sam seem to have been avoided, and there is no apparent reason why the packers have not made themselves secure in the merger.

Does any one expect an advance in the price of animals on the hoof or a

decline in the price of meat to the consumer on account of this master stroke by the packers?

**DRESSED BEEF DEMONSTRATION AT THE KANSAS STATE AGRICULTURAL COLLEGE.**

For a number of weeks past the department of Animal Husbandry at the State Agricultural College has been conducting a series of judging schools the real value of which to the future stock-breeding interests of the State can not be estimated at this time. Under the efficient management of Prof. D. H. Otis with the aid of the capable men employed as lecturers and instructors, these judging schools have grown in value and interest. They were fully appreciated by the students; and our only regret is that a still larger number of Kansas farmers both young and old could not have participated in them personally. The last judging school of the series was that for the dressed beef demonstration.

On March 24, 1903, the chilled carcasses of a 37-months-old fat steer, a 26-months-old butchers prime steer, and a baby beef, a veal, and a canner were cut up before the class in stock judging. The object of this test was to show the relative amounts of lean and fat meat with animals of different ages and conditions.

The 36-months-old steer, Donald, which was a prize winner at the Chicago International, showed a very heavy layer of fat on loin and rib. This makes the animal look very fine and smooth when alive, but there was great waste to the various cuts of meat because of this excess of fat.

The 24-months-old steer, John, showed nearly as much lean as the fat steer, but did not have as much waste in the form of excessive fat.

The baby beef, a grade Shorthorn, showed very little waste in the way of excess fat.

The canner was used to show the frame work, and the veal calf to show the difference in the color of the bone in animals of various ages.

On the day following the demonstration, the domestic science department gave a cooking test of similar cuts of the different animals. Invited guests were asked to pass judgment on the quality of fiber, flavor and relative rank of the various pieces of meat. A summary of the ranks showed that the guests preferred the lean meat of the fat steer for the steak and broiling piece, and the baby beef for the boiling piece.

The complete results of the dressed and cooking tests will soon be published in bulletin form.

**SORGHUM POISONING.**

The Nebraska Experiment Station has published a most valuable bulletin dealing with investigations made by the veterinarian and the chemist of that station on "Poisoning of Cattle by Common Sorghum and Kafir-corn." The experiments are stated to be incomplete, but the information developed is so important that the publication of the preliminary bulletin is fully justified.

The investigations point clearly to prussic acid as the poison that kills the cattle. This is usually not elaborated but under some conditions the prussic acid is liberated from its combination and the well-known results follow.

Conditions of growth in which sorghum and Kafir-corn are dangerous are suggested as follows:

1. Young plants.
2. Second growth.
3. Frosted plants.
4. Stunted plants.

In discussing these points the writer of the bulletin admits that sufficient data have not been secured to enable him to give a final opinion on all of them. He says, however:

"Young plants of vigorous growth contain a higher per cent of prussic acid than the bright, green leaves of plants reaching maturity. As the stalks and seeds contain no prussic acid, its young plants contain a much greater per cent of acid than the mature plants considered as a whole.

"Second growth is not more deadly than first growth, although, as falls in the West are often bright and dry, conditions may be favorable for the elaboration of excessive amounts of poison during the second growth.

"Frost is without influence except as a forerunner of a period of bright, dry weather.

"Growth arrested by dry weather before the plant begins to mature presents a condition very favorable for the elaboration of the poison. Growth stunted by too much water, sterile soil,

## Ride or Walk?

**You Can Do Either**  
WITH A



**JOHN DEERE  
MOLINE ILL.**

### New Elk Combined Riding and Walking Cultivator

with balance frame. Only cultivator made that is equally satisfactory as Rider or Walker. Cut shows one of a dozen styles of rigs. Find out about it now before the cultivating season. Ask your dealer about it.

Send 6 cents for a souvenir and a years subscription to *The Furrow*, a finely illustrated Farm quarterly.

**Deere & Co., Moline, Ills.**



shade of trees, or hardness of the ground does not result in the formation of dangerous qualities of poison."

The investigations from which the information given in the bulletin was derived were made by Dr. A. T. Peters, H. B. Slade, and Samuel Avery. The appearance of the next bulletin giving the results of further studies will be awaited with interest.

Reports of the merging of the Rock Island, the Santa Fe, and the Frisco railroads are persistently made from New York and are in a semi-official way confirmed in Topeka. The consolidated system will be the largest in the world, embracing 21,000 miles of railroad.

**KANSAS FARMERS' NEW WALL ATLAS.**

The KANSAS FARMER has arranged with the leading publisher of maps and atlases to prepare especially for us a New Wall Atlas, showing colored reference maps of Kansas, Oklahoma Indian Territory, the United States, and the world, with the census of 1900. The size of the New Wall Atlas is 22 by 28 inches and it is decorated on the outer cover with a handsome design composed of the flags of all nations.

Tables showing products of the United States and the world, with their values, the growth of our country for the last three decades, and a complete map of the greater United States are given. This is an excellent educational work and should be in every home. The retail price of this New Wall Atlas is \$1.

Every one of our old subscribers who will send us \$1 for two new trial subscriptions for one year will receive as a present a copy of this splendid New Wall Atlas, postpaid, free.

Any one not now a subscriber who will send us 50 cents at once will receive the KANSAS FARMER for five months and will be given a copy of our New Wall Atlas free and postpaid.

**Business Opportunities for All.**

Locations in Iowa, Illinois, Minnesota, and Missouri on the Chicago Great Western Railway; the very best agricultural section of the United States where farmers are prosperous and business men successful. We have a demand for competent men with the necessary capital for all branches of business. Some special opportunities for creamerymen and millers. Good locations for general merchandise, hardware, harness, hotels, banks, and stock-buyers. Correspondence solicited. Write for maps and sample leaflets. W. J. Reed, Industrial Agent, 604 Endicott Building, St. Paul, Minn.

**\$2.50 Value for Only \$1.00.**

The Western Swine Breeder's Journal, of Lincoln, Neb., is a very valuable publication for Western swine raisers. The price is 50 cents a year. The Kansas Farmer is \$1.00 a year. For a limited time we make this great offer: To any of our subscribers who will send us two new subscribers for one year and enclose a dollar bill, we will make them a present of the Western Swine Breeder's Journal one year free, thus giving \$2.50 in value for only \$1.00. Address Kansas Farmer, Topeka, Kans.

**The Book of Corn.**

A complete treatise on the culture, marketing and uses of maize in America and elsewhere, for farmers, dealers, manufacturers, and others—a comprehensive manual on the production, sale, use, and commerce of the world's greatest cereal; prepared under the direction of Herbert Myrick, by the most capable specialists in America and Europe. King Corn is to have still larger prosperity in the future. This is true not only of the grain, but of the whole plant. Maize is the most important cereal grown, yet in spite of the over-shadowing importance of this crop, practically no book worthy of the subject exists. Recent improvements in all methods pertaining to raising, harvesting, and utilizing corn certainly warrant a book that shall be the standard authority on this subject at home and abroad for years to come. The Book of Corn supplies this want. The writers are practical, scientific, and commercial experts—each the master of his subject from every standpoint, making this work of indispensable utility to every one interested in this crop. While authoritative both as a practical manual and scientific treatise, The Book of Corn is strong and accurate on the commercial or business aspects of this great industry. A system of blanks by which growers can keep an accurate account of every item of expense in raising, harvesting, and selling corn is an additional feature that makes this book constantly used and referred to by corn-growers everywhere. Richly illustrated, 3 by 7 inches, about 50 pages. Cloth. Price, postpaid, \$1.50. Orange Judd Company, New York.

It is extremely important at this season of the year to select good seeds and made a good choice of varieties, especially of small fruits and garden seeds. At this season it becomes doubly important to know where one may find seeds that are satisfactory. Our answer to this always is, consult the advertising pages of the Kansas Farmer. You will there surely find what you want, but if you should not you will find those who can tell you where to go. We have just received a handsomely illustrated catalogue from H. W. Buckbee, Rockford, Ill., which is a good thing to have in the house as it not only contains a complete list of garden seeds, corn, and the small grains, flowers in immense varieties, small fruits, cuttings, farm, garden, and orchard tools, but in fact everything that is needed by a farmer who would enjoy the good things of life. A postal card will bring this catalogue with a big red-cored water melon on the back.

**CANCER ON THE ARM CURED BY THE COMBINATION OILS.**

Emporia, Kans., October 18, 1901.  
Dr. D. M. Bye Company, Indianapolis, Ind.

Dear Doctors:—Believing you would be glad to know of the recovery of your patients, I am pleased to tell you the cancer on my arm is well. It is wonderful, this rapid recovery. I do not believe things happen, but that the Lord rules in all things, and that He led me to try your wonderful cure. May the dear Father bless you in your work of healing is the earnest prayer of your grateful patient,

Mrs. A. J. Wooster.

The Combination Oil Cure was originated and perfected by Dr. D. M. Bye. He has cured many very bad cases without pain or disfigurement. Those who would like to know more about it, or who desire free books and papers, should write to the HOME OFFICE of the Originator, Dr. D. M. Bye Company, Drawer 505, Indianapolis, Ind.

**PILES NO MONEY TILL CURED. 25 YEARS ESTABLISHED.**

We send FREE and postpaid a 200 page treatise on Piles, Fistula and Diseases of the Rectum; also 100 page illus. treatise on Diseases of Women. Of the thousands cured by our mild method, none paid a cent till cured—we furnish their names on application.

**DR. THORNTON & MINOR, 207 Oak St., Kansas City, Mo.**

PUBLISHERS' PARAGRAPHS.

J. B. Armstrong & Sons, Shenandoah, Iowa, report a season of lively trade in seed-corn. Give them an early order.

Ross & Ferrell, Farragut, Iowa, are shipping corn shelled or in the ear, just as their customers like it. See their new advertisement.

The rich Tuscan Red Mineral Paint, mixed in Colorado and shipped with all charges paid and safe delivery guaranteed by the Building Material and Paint Company, Railroad Building, Denver, Col., is handy, in that it requires no oil, only water, to prepare it for use; is economical because of its low price and great spreading quality, and is also one of the best preservative paints for indoor or outdoor work that can be had at any price. The advertisement of this paint appears elsewhere in this issue, and will repay perusal by all of our readers.

If a mowing-machine never broke until it was all worn out, there would not be the large number sold annually that there is at present. Farmers could save expense for themselves and cut down their number if they would take proper care of their machines, keeping the fast-running parts properly oiled, the nuts tight, and the various parts in proper adjustment. In buying a new mower, it is well to notice what provision has been made for taking up wear and lost motion and preventing pounding, thus preventing untimely breakage and the early laying aside of the machine. The Champion Draw Cut Mower will repay an examination with this point in mind.

We recommend our readers to procure without delay the new illustrated catalogue of F. S. Burch & Co. Their popular remedies are as widely known as they are appreciated. A new feature of this house this year is their list of premiums to their customers, even so small an order as \$5 carrying some free gift, while on larger orders, shearing machines, dipping tanks, and other useful and desirable articles may be obtained absolutely free or at greatly reduced prices according to the value of the order. This spirit of dividing profits with patrons is at once generous and wise. It will be much appreciated by present customers of this house, and we predict will bring them a large additional patronage.

A great nursery town is Fairbury, Neb. Nature has done much for that region in soil and climate and nurserymen have merely to avail themselves of conditions and employ right methods to produce stock the equal of what can be grown anywhere at surprisingly low prices. The Fairbury Nurseries is one of the institutions that has taken firm root there. They grow superb stacks of apples, peaches, grapes, small fruits, etc., almost everything in the nursery line. As a sample of their prevailing prices, readers are referred to their advertisement elsewhere showing the worth of a dollar with them. The catalogue to meet the diverse needs of their customers is printed in both English and German, and is mailed free for the asking.

It requires a business eye to see an opportunity when it presents itself. The ability to see things as they are is the one thing which agriculturists should possess if they mean to make a success out of whatever they undertake to do. It is the power of discernment that enables them to keep up interest in their work, and it is an enthusiastic interest in what one is doing that gives life its zest and enables one to do his best. In the purchase of a binder, for example, a good business eye is needed. There are many details in the construction of the machine that should be carefully examined; and where this is done the farmer in the great majority of instances buys the McCormick, because it is preeminently the machine for the man with an eye for business.

On page 393 of this issue will be noticed the advertisement of the New Century Compressed Air Sprayer which is deserving of special attention. This sprayer is fitted with an automatic mixer which keeps the sprayer solution thoroughly mixed so that the orchard trees are covered with a uniform deposit of the poison. And it is so constructed that a pump compresses air into a steel cylinder to such a degree that one pumping is sufficient to empty the tank. It will throw a solid stream from forty to fifty feet and will throw a fine or coarse spray as far as fifteen feet. A few strokes of the pump before starting into the orchard are all that is necessary. After reaching the orchards all you have to do is to direct the nozzle and the sprayer does the rest.

About the handsomest little catalogue that has come to our desk lately is the one issued by the Great Northern Seed Company, Rockford, Ill. One of the attractive features about it is the outside cover which shows pictures of three new nasturtiums with an offer of \$100 cash to the customer who will name them satisfactorily. We do not now remember to have looked through a catalogue which is so comprehensive in its offering of flowers, grasses, vegetables, corn, melons, etc. Another specially attractive feature of this catalogue is the very moderate prices which have been fixed upon everything offered, but more attractive than all, perhaps, is the absolute reliability of the firm issuing it. It will pay you to get this new catalogue and give them a trial order.

A safe place to buy all kinds of nursery stock is the Galbraith Nurseries, Fairbury, Neb. They are located on a specially favored spot for the nursery business and they make it a point always to deal generously and honestly with their customers. This course has built up a very satisfactory trade. They call our attention to the fact that they have a finer and larger stock for this spring's delivery than ever before, and were never

SWOLLEN FINGERS

AND PAINFUL JOINTS CAUSED BY RHEUMATISM.

A Severe Case at Candia, N. H., Cured by Dr. Williams' Pink Pills for Pale People.

"A few years ago," says Mrs. F. D. Rowe, of Candia, N. H., "when I had been suffering the agonies of rheumatism for two years, I found relief in Dr. Williams' Pink Pills for Pale People. Before I tried this remedy my fingers were swollen and all my joints pained me terribly. The disease affected my stomach so that I became troubled with indigestion and constipation, my nervous system became unstrung and I found myself melancholy and morose and in a generally miserable condition. And all the time I was in pain from the rheumatism.

"An account in the papers of a person cured of troubles like mine by Dr. Williams' Pink Pills led me to try them, and before the first box was all taken the pain and soreness seemed better. A few boxes more drove the rheumatism away, and now I feel well. My husband also took this medicine for rheumatism with gratifying results."

The real cause of rheumatism is the presence of acid in the blood, which irritates the sensitive tissues that unite the joints and cover the muscles, thus causing those indescribable tortures which rheumatic sufferers endure. Dr. Williams' Pink Pills for Pale People go directly to the seat of the trouble, purifying and enriching the blood by eliminating poisonous elements and renewing health-giving forces, thus making a potent remedy for curing this disease.

Dr. Williams' Pink Pills are a positive specific not only for rheumatism, but for such diseases as locomotor ataxia, partial paralysis, St. Vitus' dance, sciatica, neuralgia, nervous headache, the after-effects of the grip, of fevers and other acute diseases, palpitation of the heart, pale and sallow complexions and all forms of weakness either in male or female. Dr. Williams' Pink Pills for Pale People are sold by all dealers, or will be sent postpaid on receipt of price, fifty cents a box; six boxes for two dollars and fifty cents, (they are never sold in bulk or by the hundred) by Dr. Williams' Medicine Co., Schenectady, N. Y. Be sure to get the genuine; substitutes never cured anybody.

quite so well equipped for making quick shipments. They make an especially fine showing of apple-trees of all sizes and varieties at prices that are certainly most reasonable, considering the quality of stock. Then there are peaches, pears, plums, cherries, grapes, mulberry trees, ash, catalpa, locust and other forest and ornamental trees in great variety. The Galbraith trees are noted for being free from all tree disease, clean, well-rooted, and in condition to enter upon vigorous growth when transplanted. They also make a specialty of right packing, digging fresh from the ground and boxing immediately, not in the sun, but in their

large packing warehouse for the purpose, and ship with greatest promptitude. This enables them to guarantee arrival in prime condition. They pay freight on all orders of \$10 or over anywhere east of the Rocky Mountains, and on \$20 orders anywhere in the United States. Catalogue mailed free for the asking.

We invite the attention of our readers to the accompanying illustration of the Louden Hay Sling. There is no question but that slings are the coming hay unloaders. They are as far ahead of the horse-fork as the horse-fork is ahead of the old hand pitch-fork. Farmers who

LOUDEN HAY-SLING



IT CLEANS THE RACK.

seek to economize in time, and also to do away with much of the hard labor of hay time, would do well to drop a card to the Louden Machinery Co., Fairfield, Iowa, and ask for their catalogue. This firm makes a specialty of haying tools of all descriptions. Also a complete line of barn door hangers and barn hardware specialties. Their slings and field stacker outfits are extensively used in Kansas and other Western States and are said to be very successful.



This elegant buggy, No. 195 Hummer, either end springs or side springs same price, wheels select hickory, 3/4, 7/8, or 1 inch tires, wheels 32-42 or 40-44, very fine quarter leather top, heavy roof and back curtains, solid leather trimmings, long distance axle, wide or narrow track, wide track is 5 feet 1 inch and narrow track is 4 feet 8 inches, finest painting, 10 coats of paint on the body and 5 on the gear, brewster green or carmine; side curtains, storm apron, carpet, all complete with each buggy, price only \$42 on terms of \$10 cash with order, balance payable \$4 a month no interest, or if the customer prefers purchasing for spot cash and does not wish any credit, we will then allow a cash discount of \$2 and will furnish this elegant buggy for \$40 spot cash. This includes shafts, pole, no shafts, \$1.25 extra, pole and shafts both \$3 extra, fully warranted for three years. The Century buggies are the only buggies in the market that are warranted for three years. The freight on a buggy from our factory to any point in Kansas will amount to about \$5.25. Send us your order, either for cash or on credit terms whichever you prefer, and the order will receive our prompt and careful attention. We should be pleased to extend credit to honest people located in all parts of the world. Knowing that the readers of the Kansas Farmer are honest, we should, therefore be pleased to extend credit to all the readers of the Kansas Farmer. Write for free catalogue. This is the greatest bargain ever offered. We refer you to the Southern Illinois National Bank of East St. Louis, Ill. Century Manufacturing Company, capital \$500,000. Department No. 54, East St. Louis, Ill.

We Sell Direct--Save Our Customers Two and Three Profits--Send for Catalogue.



20 Days Free Trial.

One Year's Guarantee \$39.50

Top Leather Quarter, Leather Cushion Back.

Wholesale Manufacturers of Buggies, Road, Spring and Farm Wagons, Harness, Saddles, Rural Mail Wagons, etc.

ERHARDT WAGON MFG. CO.,

Third and Commercial Streets, ATCHISON, KANS.

Blood and Skin Disease Positively Cured. No Cure, No Pay. Cases guaranteed. Pay your money when benefited. I have hundreds of testimonials who testify of the healing power of my treatment. If you are ailing, Don't give up hope, but write me at once for full free advice, enclosing stamp for reply. A. A. BROWER, M. D. Box 199 B, Topeka, Kansas.

COLORADO RED MINERAL PAINT Use No Oil--Mix With Water. A 12 year old boy can apply this paint successfully. Satisfaction guaranteed. We pay the freight. Paint your houses inside and outside. Your barns, fences and agricultural implements. This Rich Tuscan Red Mineral Paint is shipped dry in 100 lb. packages. 100 lbs. will cover 1000 square feet of rough surface such as rough boards and undressed stone and 2000 square feet of smooth surface such as walls and ceilings. This paint will not wash, rub or peel off and can be polished like a mirror. Finish. Price \$5.00 per 100 lbs. delivered in Iowa, Kansas or Nebraska. We pay all freight charges and guarantee safe delivery. Remit by Draft, P. O. Order or Express Order to B. M. & PAINT CO., Railroad Bldg., Denver, Colo. Paid up Capital \$150,000.

\$28. Free, For A Testimonial. You can have ripe tomatoes June 15th, ripe melons July 1st, new potatoes and cucumbers May 15th. All other vegetables or flowers as early by using Gold Mine Hot Bed. It protects all kinds of plants from frost, cold, raw winds and storms. Keeps off the bugs, insects, cut-worms. Stimulates plant life in such a manner as to make them grow three times as fast. Indorsed and recommended by every agricultural paper in the United States, and by every farmer that has used them. There is not a tool or implement that the farmer buys that will bring him in as large returns each year as this. It will pay for itself forty times a year, with proper usage. We have reduced the price from \$1.50 per dozen to 85 cents, for immediate acceptance. Sold on the same guarantee to give satisfaction as plows, binders, and mowers are sold, or money refunded. When you find they are better than you expected then kindly send us a testimonial. Next year you will want more of them; we will reciprocate your kindness with a present. We will give 200 Gold Mine Hot Beds to the person sending in the best report; 100 for second best; 50 for third; value \$28, and pay all charges to destination. Premiums paid in November. Points considered--Earliness, yield, amount of money made, with one dozen. Please do not delay your orders. Reference by permission: Commercial Bank, Greentown. W. M. WOODWORTH, Greentown, Ind.

LOOK! LOOK! MIRACULOUS DISCOVERY! Good Butter from 1 Pound. Satisfaction Guaranteed. If you fail to make the Butter your money cheerfully refunded. Send \$1.00 at once and begin to treble your output of Butter. No Drugs used. Address THE HOME SUPPLY CO., KAUFMAN, TEXAS.

Seed-corn, Seed-corn. Ross & Ferrell, Farragut, Iowa, make a strong point of selecting high-class seed-corn for their customers. All their corn is carefully hand-picked. They will ship it to be as represented. It is pure seed, true to name, and has lots of vitality for quick and continued growth. All are standard varieties of medium size, a good cattle corn, the kind that best pleases elevator men. The Early Reed and Early Gem are best varieties of yellow. Your order given best of attention now. Order without delay. The big rush will begin in two or three weeks. See advertisement.

To the man who profits by his mistakes experience pays handsome dividends. Don't make any more mistakes. See our "Blocks of Two."



The Erhardt Wagon Mfg. Co.

Herewith we print a picture of the factory and warehouses of the Erhardt Wagon Manufacturing Company, the Western headquarters of which are located at Atchison, Kans. It is always a matter of pride to be able to claim these great factories as home institutions, and it is a matter of further satisfaction when such a factory adopts the policy of selling direct to consumers and thus saves the jobbers' and retailers' profits for the

benefit of the customers. At this factory everything in the way of vehicles from the heavy truck to the pony cart is offered at wholesale prices. All kinds of harness, saddles, wagon covers, tents, horse-clippers, and everything that pertains to a horse, is here catalogued at the same kind of prices and an early shipment guaranteed. Their advertising card appears on page 389. Write for catalogue with special price list.

DIETZ LANTERNS are everywhere noted for shedding strong clear, white light. Hand lanterns, street and driving lamps, etc., many sizes and styles for all purposes. Send for free illustrated catalogue. R. E. DIETZ COMPANY, 28 Light St., NEW YORK. Established 1860.

## THE SHARPLES Tubular Dairy SEPARATOR

Here is a sample of the kind of letters we get every day:

"Have often heard of the Sharples Tubular Separator, but never investigated it until now. I thought all separators more or less alike until I tried your Tubular. I have used other separators, but never knew what a separator could be or should be, until I got this. No fat left in the skim-milk—half the labor to turn it—one-tenth number of parts to clean. The talk of others misled me to my own loss, but now I know better."



Every dairy farmer can have a free trial of the Sharples Tubular and decide in accordance with his own judgment—not talk. Catalog No. 168 free.

SHARPLES CO., P. M. SHARPLES,  
Chicago, Ill. West Chester, Pa.

Let us put your name on the free list of the "SEPARATOR"—a good paper for dairymen and farmers.

## In the Dairy.

Conducted by George C. Wheeler, Kansas Experiment Station, Manhattan, Kans., to whom all correspondence with this department should be addressed.

[The editor of the KANSAS FARMER is glad to announce that the position of editor of the dairy department, which was so long and so ably filled by Prof. D. H. Otis and later by Prof. Ed. H. Webster, from this time forward passes to the charge of Mr. George C. Wheeler of the Kansas Experiment Station. Mr. Wheeler has charge of the dairy herds at the college so that his part of the work is in exact line with that of the producer of milk. It is hoped that Mr. Wheeler's invitation to ask questions will result in keeping him busy with answers.]

### A Plea for More Progressive Dairying.

Another turn of the wheel and the dairy page of the KANSAS FARMER is deprived of its editor. Prof. Ed. H. Webster, who has so ably filled the place for the last few months, steps up and out. The writer who has been asked to take his place can not hope

to fill it, but will rattle around to the best of his ability and perhaps may aid to some extent in disseminating and emphasizing the principles of Kansas dairying.

We invite and urge the hearty cooperation of all practical dairymen in our work. If you have methods which are especially satisfactory, write us about them; let the dairy page of the KANSAS FARMER be a clearing house for all the latest and best things in dairy practice.

We will endeavor to answer, as far as we are able, all dairy questions of general interest which may be submitted to us.

We publish this week the record of a Colorado herd which Kansas dairymen might well emulate. The keeping of accurate records will do more to increase the profits of dairying than any other one thing. The dairyman who does not use the scales and the Babcock test is groping in darkness. It is the only sure way of knowing the profitable cow from the mere boarder. Even our most expert judges of dairy cattle fail in selecting cows by mere external appearance, as is shown in the results of the recent year's record of the prize herd at the college.

The keeping of a milk record is not a difficult matter nor does it take much additional time. A dairyman without a Babcock tester will find his creamery or skimming-station eager to assist him in his efforts to improve his herd. Occasionally taking a sample of a cow's milk to the creamery for a test will not avail. It must be systematically sampled at stated intervals. With the college herd we make a composite sample of eight successive milkings twice a month and the average of these two tests is used as the per cent butter-fat for the month. We would urge every dairyman who is not now keeping accurate record of the individual producing powers of his cows to begin at once. We should like to publish some Kansas figures to compare with the Colorado record of this issue and we invite dairymen who have records of their cows to send them in for publication. We ought to have a score or more of such records published in the KANSAS FARMER.

### Swine-Raising as an Adjunct to the Dairy Business.

Much has been said and written on the value of skim-milk for swine, but the subject has not been emphasized as it should be yet, for many men do not realize the feeding value of skim-milk or the beneficial effect it has on the digestive system of the corn-fed hog or the growing pigs. The dairymen, of course, utilize

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much of the skim-milk in rearing the calves, but a first-class dairy cow ought to produce more than enough milk to raise the calf. The man who runs a private dairy can also profit by feeding the buttermilk to swine instead of letting it run into the sewer.

The Kansas Experiment Station has conducted several experiments with feeding skim-milk to hogs, and in every case the gain per day has not only been larger but has taken much less grain per hundred pounds of gain than in cases where skim-milk was not used. We recently put some shoats on a fattening ration of soaked corn and alfalfa hay. They gained all the way from a pound to a pound and one-half a day for two weeks, then we began feeding skim-milk and for the last two weeks, and since we introduced the skim-milk into the ration they have gained over two pounds per day right

along, and yet many men hesitate about paying 15 cents a hundred for skim-milk or waste the skim-milk and overfeed their calves with it rather than feed it to the hogs.

Skim-milk is of more value to the hogs than its analysis shows it to be as it acts as a tonic and stimulant. It keeps the bowels in good condition and the hogs seem to be healthier and fatten much faster when they have this kind of a feed. It is true, however, that hogs fed on milk of any kind are more or less troubled with worms, but this can be remedied by having charcoal or slaked lime before them all the time, and they should have one of these condiments whether they are fed milk or not.

Then again, what is better for the growing pig at weaning time than skim-milk? Nothing could be better, for the pig at this time needs some

## A Train Load of Separators!

Twenty car loads. Two thousand two hundred and fifty De Laval Hand Separators at a value of \$225,000.00, all sold during the first ten weeks of 1903. This is the record of The Continental Creamery Company of Kansas. Two hundred and twenty-five thousand dollars invested by Kansas dairymen in improved machinery.

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Simply because the dairy business has come to stay in Kansas and they want the separator which LASTS. The farmers buying these separators are selling their cream to The Continental Creamery Company. Why? Because they are better treated, are paid better prices and have the advantage of seeing their cream weighed, sampled and tested by a home man at a home station.

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We pay three and one-half cents under New York market, NET, for butterfat in Hand Separator cream delivered at our stations. In January we paid 24 cents, NET. In February we paid about 23 1-5 cents, NET. These prices were not beaten and our prices the year round cannot be beaten by any concern in the country. If you are not near one of our stations, twenty or more hand separator patrons in a given radius can get one. Write us or see our agents.

# THE CONTINENTAL CREAMERY COMPANY,

TOPEKA, KANSAS.

highly nitrogenous food to combine with the more carbonaceous grain ration to which the pig generally has access. Many men who live on the outskirts of towns and cities keep a pig or two to utilize the waste from the table and kitchen and raise them practically without cost. Then why not practice this on a larger scale by keeping swine to utilize the waste from the private dairy and creamery?

R. N. DORMAN.

**Dairy Notes from Sunny Colorado.**

Spring has arrived fully three weeks earlier than common this year. The pastures and alfalfa-fields are showing signs of returning activity in growth and the mountains are well covered with snow, prophetic of plenty of water during the coming summer for irrigation which is the main factor in successful farm operations here.

February was the severest month of the whole winter on stock, and our milk receipts were considerably below normal on that account. The herd report for the month of February is as follows:

**REPORT OF BROADMOOR DAIRY FOR FEBRUARY, 1903.**

Cows on record.....	128
Alfalfa fed, pounds.....	64,510
Silage fed, pounds.....	47,376
Bran fed, pounds.....	20,275
Corn chop fed, pounds.....	1,764
Milk produced, pounds.....	67,965.8
Alfalfa hay per cow per day, average pounds.....	18
Silage per cow per day, average pounds.....	13.22
Bran per cow per day, average pounds.....	5.65
Corn chop per cow per day, average pounds.....	.49
Milk per cow per day, average pounds.....	18.96
Notes.—Began feeding corn chop in ration on 23d. A stormy, cold month—cows kept in barns nine nights during the month.	
Per cent.	
Herd test, butter-fat (certified).....	4.2
Solids fat.....	4.5
Solids not fat.....	9.37
Total solids.....	13.8
FEED VALUES.	
Alfalfa hay per ton.....	\$10.000
Silage per ton.....	2.000
Bran per ton.....	19.000
Corn chop per ton.....	18.000
Feed cost per pound of milk.....	.008

So far as my knowledge extends, we are the only dairymen in Colorado and even west of the Mississippi furnishing a "certified" milk. For the benefit of the uninitiated a few of its special features are given in comparison with so-called "average" milk in the following ten parallel statements:

**Advantages of Broadmoor Certified Milk for Infant Feeding**

1. The cows are guaranteed free from tuberculosis.
2. The cows are groomed every day.
3. The first milk from each cow is rejected every day, as it is well known that the fore-milk contains the majority of harmful bacteria.
4. The cows stand on a cement floor, which is washed every day.
5. Milk is immediately cooled, bottled in sterilized jars, which are hermetically sealed and placed on ice until delivered to the customer.
6. Water is supplied from a spring, which is piped to the cow lot, the water having been analyzed and pronounced pure by Dr. Mitchell, Bacteriologist to the Denver Board of Health.
7. The fat content of the milk is guaranteed not to vary. The milk is tested every day, so that we know what we are selling. We can not afford to guess when a doctor is prescribing for a delicate baby.
8. Our preservatives are cleanliness and coldness.
9. Owing to the care used in producing our certified milk, we are able to deliver a milk practically neutral.
10. Our certified herd is isolated from other cattle and therefore not liable to infection.

Milkers are clothed in clean, white suits and we use the Gurler sanitary milk pail, the entire top of which is a removable strainer consisting of two thicknesses of sterilized gauze between which is a layer of sterilized absorbent cotton. A new supply of gauze and cotton is used at each milking.

The mechanical milker has been attracting considerable attention of late and the day-dawn of success seems to be tinting the sky with hope. Apropos to this matter the following extract from a letter received from F. E. Bryant, senior partner in the Broadmoor dairy firm and who is now visiting in England is of value to dairymen, coming as it does from a disinterested eye-witness and a practical dairyman of experience:

"I have been looking into the merits of the Lawrence-Kennedy milking-machine. There are over five hundred of these machines in use in Australia and about ninety in England. I went

down to a place called Gillingham's in Dorset to see them work. The machine has been installed at this dairy for nearly two years; so I thought it would be a good place to go as they had cows that had been milked by the machines before calving, had since freshened and were being milked again by the machine. I saw forty cows milked at this place in twenty-five minutes using eight machines, being operated by a man to put the 'teats' on, and a boy to carry the milk to the dairy. The machine got practically all the milk. The cows were stripped out afterward and a gallon and a half was all that was gotten from the forty cows. The owner of the farm told me that he considered it saved him a lot of money and time, and since using the machine he had had no 'three teater,' sore teats, or cowpox, and had cleaner, better-keeping milk.

"I see no reason to doubt but that the machine is entirely practical; it is very simple, nothing to get out of order and easily kept clean. I am going to Datchett this week to see the machine work again."

All things considered, such statements would tend to "jar" the unfaith of the most skeptical. The cost of hand milking is always heavy on a modern large dairy. To regularly milk a "string" of from twenty-five to thirty-five cows and care for them requires a "professional" milker, and the unnatural hours of work tend to render a man "cranky" and pessimistic.

Abnormal cranial "bumps" of tact and patience are needed in the head-gear of a superintendent to secure long-continued service from employees under these conditions. May the success of mechanical milkers come, and come quickly.

H. R. BLAIR.

**WITH NATURE'S WONDERS.**

**The Tourist Finds Much of Interest Among the Caves and Natural Bridges of California.**

California has numerous natural bridges, caves, etc., of no little interest. The mammoth cave of Calaveras was discovered by miners in 1850. It contains, among other striking features, a rock shaped like a boat, and various apartments whose peculiar conformation or apertures have caused them to receive such names as Odd Fellows' Hall, Music Hall, Bridal Chamber, Cataract, etc. In Placer County, eight miles from the Central Pacific tract, is the Alabaster Cave, containing large rooms, crystalline waters, and innurable stalagmites, stalactites, etc. In Tuolumne County is the Crystal Pal-

**Average Dairy Milk Produced under Average Conditions.**

1. Ten per cent of Colorado's dairy cows have tuberculosis.
2. The cows are never groomed.
3. Anything that looks like milk is good enough.
4. The cows stand on a board floor which is alive with bacteria, and is never washed.
5. The milk is cooled from two to three hours after milking, put in jars which have not been sterilized and is not put on ice.
6. The less said about the water supply of the average dairy the better.
7. The average dairyman does not know the fat content of his milk. As he never tests it, he has to guess at it. The doctors have failed to find any merit in average milk produced under average conditions. When their reputations and the life of a delicate baby are at stake they want the best.
8. Common preservatives found in average milk are freezing, borax, preservative, boracic acid, etc.
9. Average milk under average conditions contains a high per cent of acidity, which leads to stomach derangements, and kindred troubles.
10. Healthy and sick intermingle promiscuously.

ace Cave, discovered in 1879. It has a number of attractive subterranean apartments, such as the Bridal Chamber, the Crystal Palace home, and a curious apartment called the Music Hall, where the deposits of aqueous origin not only have taken the form of organ pipes, sounding boards, etc., but they also emit, when struck, sounds or vibrations distinctly musical in quality.

Near this cave are two natural bridges, which the tourist can visit and return to the railway within half an hour. They are respectively 180 and 240 feet long, and the upper and larger is very curious.

On the beach near Santa Cruz is a natural bridge of imposing proportions and picturesque formation into which the sea washes.

The direct and most comfortable route to California is over the Union Pacific. Literature giving full information can be obtained by addressing J. C. Fulton, depot agent, Telephone 34, or F. A. Lewis, city ticket agent, 525 Kansas Avenue, telephone 53.

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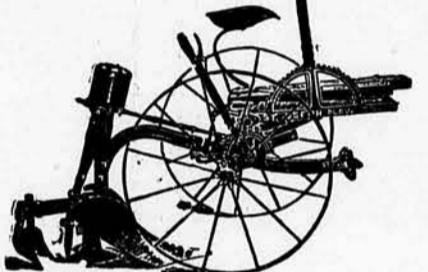
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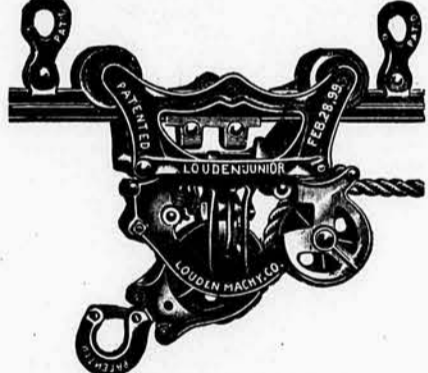
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Bull for sale—Acomb Duke 18th 142177, looking after; also 13 young bulls of service, and eight young cows with Acomb Duke 18th. Inspection in  
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I will sell in lots to suit purchasers, 100 choice registered herefords, which include 12 bulls of serviceable age, cows bred, heifers bred and unbred and calves. Will make the subject to buyers. Will sell anything herd bull. Come and see me, or address  
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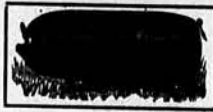
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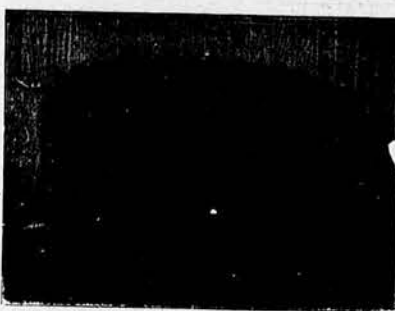
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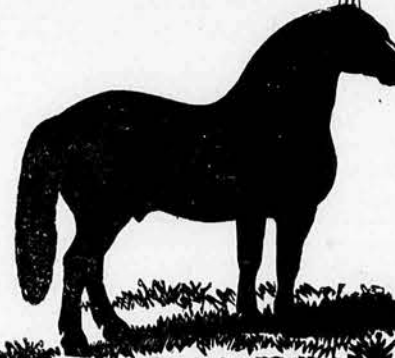
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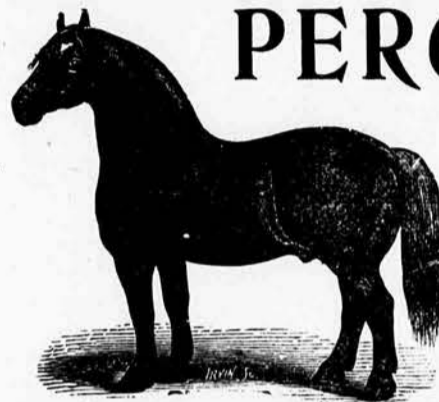
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DIAMOND	4.00	30.00	6.00	50.00
IVES	3.50	25.00	4.50	35.00
MOORE EARLY	4.00	30.00	5.50	45.00
NIAGARA	4.00	30.00	6.50	55.00
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Our Early Reed and Early Gem are unexcelled varieties of yellow corn; medium in size, long grain, and fine yielders. The old Iowa Silver Mine and White Rose are also standard. All our corn is carefully hand-picked and tipped at both ends. **..CORN..** \$1.25 per bushel, f. o. b. cars here. Your orders given prompt attention. Order now **ROSS & FERRELL,** - - Farragut, Iowa.

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**SHORTHORNS**

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**MR. D. L. TAYLOR, of Sawyer, Kansas, Owner of the SUNFLOWER HERD**  
Offers a draft of 23 Herefords, which consists of 19 Cows and Heifers and 4 Bulls. Thirteen of these cows and heifers are granddaughters of the great Don Carlos 33734; also Wild Tom 51592 and Corrector 48976 have daughters and granddaughters in this draft. Three of these bulls are grandsons of Don Carlos 33734 out of Anxiety dams and one bull is a son of Corrector 48976 out of an imported dam. These bulls are grand individuals and ready for immediate service.

**MR. W. W. TAYLOR, of Sawyer, Kansas, Owner of the ELM GROVE HERD**  
Offers a draft of 26 Shorthorns, which consists of 19 Cows and Heifers and 7 Bulls, representing such blood as Cruickshank and other prominent Shorthorn strains. His herd bull, Roan Duke 159499, will be in this offering and 12 of his sons and daughters. Roan Duke is nearly Cruickshank with a spinkling of Booth and Bates of the first order. He is descended from, or traces to, the great champion of England nearly 150 times.

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The sale pavilion will be well heated for this sale.

FOR CATALOGUES WRITE ..... **COL. L. R. BRADY, Manhattan, Kansas.** .....  
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# Omaha Angus Sale!

Wednesday and Thursday, April 15 and 16, 1903,

...In South Omaha Sale Pavilion...

115—Breeding Cattle in Breeding Condition—115

**75 Females**

**Imported and Home-bred Cattle of Popular Families.**



**..40 Bulls..**

**A Golden Opportunity to Buy Bargains in Good Cattle.**

**THE CONTRIBUTORS ARE:**

GEO. E. STEVENSON, JR., Waterville, Kans., 6 head.  
N. G. DAUGHMER & SON, Douglas, Ill., 11 head.  
J. D. BLACKWELL, Fayette, Mo., 6 head.  
F. W. KELLUMS, Prairie City, Iowa, 5 head.  
SILAS IGO, Palmyra, Iowa, 9 head.  
OMER CATTERSON, Maryville, Mo., 8 head.  
HALEY BROS., Harris, Mo., 7 head.

MARION STONE, Milan, Mo., 8 head.  
C. J. WILLIAMS, Harris, Mo., 4 head.  
A. N. ARNEY, Leon, Iowa, 6 head.  
I. D. WEBSTER, Pleasant Hill, Ill., 8 head.  
F. F. WARNER, Bloomfield, Iowa, 10 head.  
PALMER & PALMER, Princeton, Ill., 10 head.  
CHAS. ESCHER JR., Irwin, Iowa, 7 head.

Cols. Woods, Harding, and Igo, Auctioneers.

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