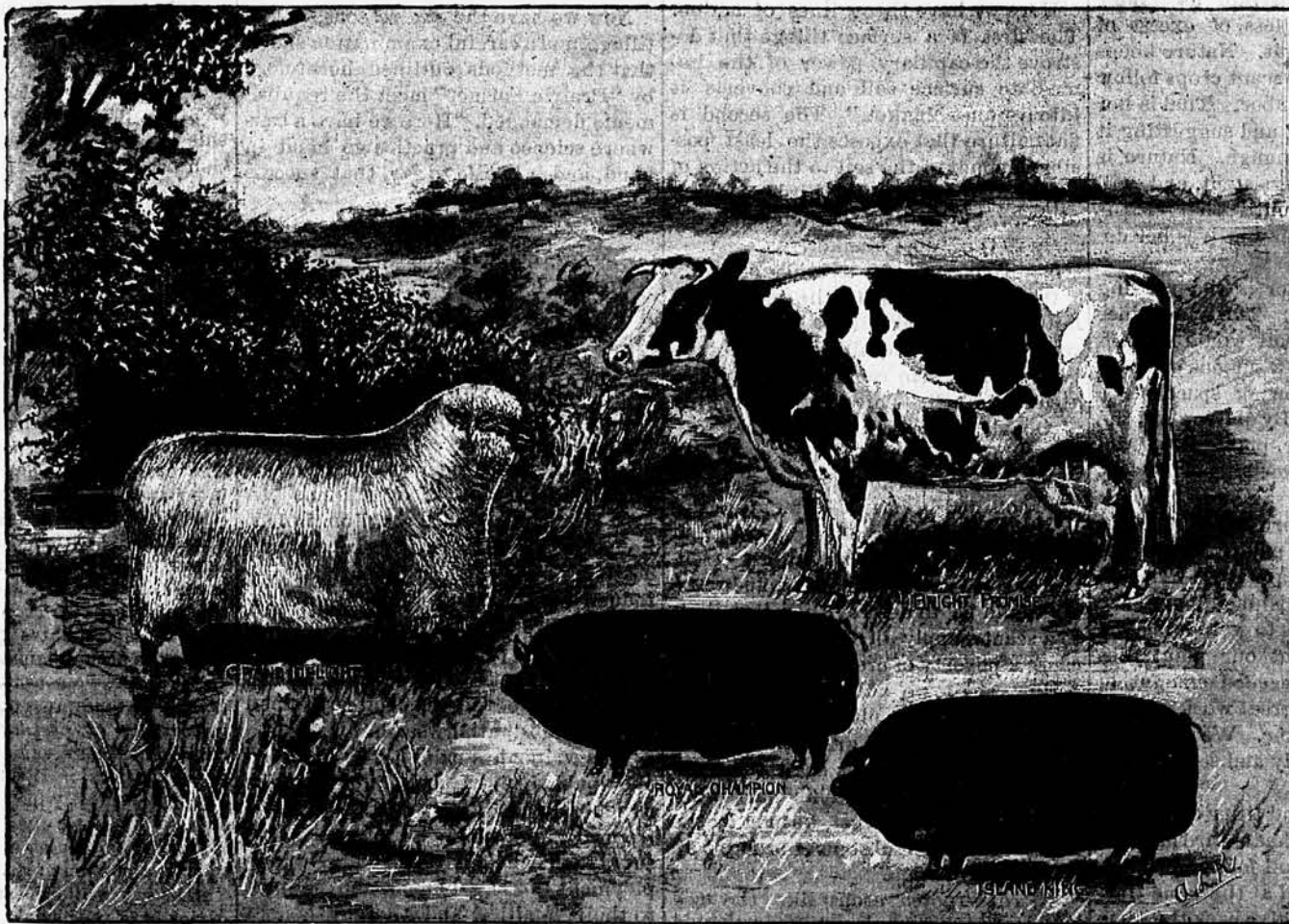


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BREEDERS' DIRECTORY.

Cards of four lines or less, will be inserted in the Breeder's Directory for \$10.00 per year, or \$5.00 for six months; each additional line, \$2.50 per year. A copy of the paper will be sent to the advertiser during the continuance of the card.

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L. A. KNAPP, (SHORT-HORN CATTLE) and BUFF COCHIN POULTRY MAPLE HILL, Kas. FOR SALE.

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H. R. GOODELL, Tecumseh, Shawnee Co., Kas., breeder of thoroughbred Berkshire swine. Stock for sale, both sexes, at reasonable prices. Write for what you want.

MAINS' HERD OF POLAND-CHINAS.—James Mains, Oskaloosa, Jefferson Co., Kas. Selected from the most noted prize-winning strains in the country. Fancy stock of all ages for sale.

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J. C. CANADAY, Bogard, Carroll Co., Mo. The best of improved Chester White pigs from registered Ohio stock for sale. Boars ready for service, sows in pig. Stock guaranteed. Correspondence solicited.

(Continued on page 16.)

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25 OZS. FOR 25 C.

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Agricultural Matters.

PRAIRIE SOIL CULTIVATION.

"That book of Prof. F. H. King is adding fuel to the flame of my enthusiasm in the successful cultivation of our dry prairies," says a "Prairie Farmer," in a recent issue of the *Stock, Farm and Home*.

It is very evident from the reading of the science of this book that the essential differences in the cultivation of a certain soil in any given latitude should be determined by the condition of moisture or water in that section. The sun, air, soil and water are the four factors of plant growth. Upon our dry prairies the first three are similar, or alike, as the soil varies but little, but water and moisture varies from the superabundance to aridity. Yet it is a fact that the great multitude of cultivators of farms cultivate as "their fathers did," regardless of excess of rain or utter want of it. Nature keeps her steady pace, and scant crops follow in the wake of hard labor. That is her way of calling a halt and suggesting it would be well to change. Nature is very patient and persistent, and will keep calling stop until that call is heeded. No man ever outlives her demands.

A study in soil water is the reading of nature's text book. The sun shines upon our plant, the soil would nourish it, as also the air, but a surplus of water in the zone, or growing space of the plant may prevent. By driving out the air from the soil our plant dies from suffocation. The remedy is to let that water down and out. Such is the work of many of our Eastern farmers. But our Western prairie plant receives the sun that shines impartially. The soil holds abundant nourishment, and the air finds free access to soil, doing the work of aeration, but our plant dies through lack of the needed amount of water. Here is the great work of the Western prairie farmer. We must save our scant water supply and see that the plant gets it.

Let every owner and tiller of the dry prairie rest assured that nature has first given him the best soil for the purpose of water capacity, and at the same time to have the power to give back the same from the subsoil by capillary attraction. The sand portion is a guarantee for capacity to contain water, and the density of the same is evidence of its capillary power. This soil will do for us what we need if we don't tinker it too much by our zealous tillage. We may "tickle the bosom of this portion of mother earth," but we must not worry it by too deep plowings that destroy the second good quality above-named, viz., *density*. Prof. King carefully enumerates the chief objects of tillage under six heads.

1. "To destroy undesired vegetation."

For this reason we plow under prairie and clover sod, etc. We have no deep cultivation in this, and if furrows are turned flat and a good seed-bed made on reverse side of sod we secure fairly good crops as a rule. The sod itself in a very dry season is an absorbent that works against the best results. Our cultivators may and should run shallow on old fields in growing crops so as to save the roots.

2. "To place organic matter of various kinds beneath the surface where it will more readily ferment and decay and be brought within reach of root action."

This section explains itself. The sod is the usual form of organic matter. A *manured sod* should be the desired sod for the greatest success.

3. "To develop a loose, mellow and uniform texture in certain sods."

The italics are ours. That kind of soil that needs loosening is not ours. If we loosen our soil we destroy the capillary power so our soil water cannot "climb up" and nourish our crop.

Experience proves that we need the density nature gave. So keep it. Keep the deep plow out. Let the tillage be of another kind. The water from the skies during the growing season is in scant supply, and we must draw from the reservoir of the subsoil by capillary buckets. Save the buckets! Nature is abundant in her gifts to us of sunshine, air, soil and water. These four working in unison make success. Any three will make failure if working without the fourth. We have three always inseparable, but the fourth, or water, is connected by capillarity. We may make this abundance of water to be a gaunt scarcity by wasteful labor that destroys the soil's native density. Keep tillage out of the subsoil. Let tillage keep her place, and that place is upon the surface. We can keep tillage busy there!

4. "To control the water content of the soil."

Here we have three lines of action. The first is a surface tillage that destroys the capillary power of the immediate surface soil and converts it into a "dust blanket." The second is flat culture that exposes the least possible amount of the soil to the action of sun and winds; and the third is a mulch of straw, hay or litter, which acts similarly to the "dust blanket."

5. "To control the aeration of soil."

It is essential that the air be admitted within the soil to bring with it coming oxygen and nitrogen, and take in its going the carbon dioxide liberated in the soil. This coming and going of the air in the soil may be called soil-breathing, and is called the aeration of the soil. The germinating seeds, growing roots and germs of ferment, germs of nitric acid and free nitrogen fixing germs all breathe the air, all are essential to soil fertility, and to exclude the air would be to destroy them; to limit to a scant supply of air would surely cause a poverty of crops.

How shall we add to the natural aeration of soil by cultivation? We can harrow the growing grain (when sown with press-drill, always have the drill run east and west). This harrowing will break up the crust, formed by the deposit of saline substances brought up by capillary action.

"Strong-rooted crops like the red clover, which send their roots deeply into the subsoil, leave it so channelled by the decay of these roots that a more perfect circulation of air is thus secured."

The foregoing is an exact quotation from the work of Prof. King. Only one other means is mentioned by which soil aeration may be increased, and that is by drainage in the case of surplus water, which does not meet our case. Of course, all cultivations of soil aerate it. As Mr. Dickson, late of the Farmers' Institute corps, said: "A certain gain in crops always followed every single act of tillage."

6. "To control the temperature of the soil."

It should be our aim in this Northwest to increase the soil temperature by all means within the power of tillage. The comparatively small amount of water in our soil is favorable to the high temperature that we need; wet lands are cold lands. We need and we have a comparatively warm soil in this Northwest.

By creating the "dust blanket" by pulverizing with the disc harrow, and then perfecting the same by repeated harrowings, we not only prevent the evaporation of water from the soil, but at the same time increase the temperature by preserving heat. This "dust blanket" does double duty and does it well; it saves both the water and the heat. It costs the heat that we need to evaporate the water that is also in scant supply.

There is a tool that has been of late but little used that will, I think, come into more general use in the Northwest. I refer to the roller. While we

cannot use it before the grain is up through fear of drifting of soil by the wind, we can use after the grain has a start and after the harrowings have been done.

Rolling the ground increases the soil temperature by reducing the lumps of soil that make the soil to have more surface to warm, and so less heat goes to the soil below. These lumps are also dry so they absorb more heat, and having poor connection with the soil beneath they transmit poorly of their heat to that soil. The air above the unrolled land is warmer than the rolled. The air has heat that we want the soil to have, but clods and lumps have defeated us. We must crush the clods. When we have saved all of heat we can by harrowing and making a "dust blanket," then complete the job by rolling. The addition of fermenting manures will also add to soil temperature for obvious reasons.

Now we have the six reasons for soil tillage, and a careful examination shows that the methods outlined heretofore by "Prairie Farmer" meet the requirements demanded. Here we have a case where science and practice go hand in hand, and it is safe to say that success will follow in the train.

Sorghum Industry.

EDITOR KANSAS FARMER:—What is to be the future of Kansas, is an interesting question for every Kansan to study, and it may not be out of place for a very humble individual to congratulate you on your bright prospects for a glorious future.

An enthusiastic advocate of the sorghum industry says, ever since his first experiment with sorghum in 1856 he has believed it would become a successful industry, and the peer of any industry of the country, and that Kansas, with its soil and climate peculiarly adapted to its production, was to become the banner State in its production, and by it become the peer of any inland State in substantial wealth.

This writer has many times declared and published his belief (only to be ridiculed) that Kansas could produce from sorghum alone all the sugar to supply our whole nation and give employment to 250,000 hands and support to their families, and thereby benefit every other industry. Of course it is not to be supposed, or desired, that it should be carried to that extent, unless an export trade is inaugurated. But it may and will be carried to the extent of benefiting the State by the production and diversifying the crops to make it the peer in wealth, as it now is in intelligence and morals, of any State. But much is to be learned in the method of cultivation of the crop as well as in the manufacture. Indeed improvement in the culture has not kept pace with the improvement in appliances and methods for manufacture.

From his own experience and observation in traveling and investigating the methods of culture and their results, from Minnesota to southern and western Kansas, the writer is of the opinion that there should be almost a radical change from the present methods practiced by the majority of farmers.

D. J. BISSELL.

College Springs, Iowa.

Broad Wagon Tires.

"While the subject of improved roads is being agitated by the Legislatures and the agricultural journals," says *Colman's Rural World*, "the farmers are busy working up the subject in a practical—though possibly not in the most proper—way by industriously, and at much expense of time and team, cutting up and destroying the roads by driving heavily-loaded, narrow-tired wagons over them. When we see a man on a heavily-loaded, narrow-tired wagon urging along his jaded team, engaged

to his utmost power in making mud, and then grumbling because of the 'horrid' muddy roads, he seems to be an object for pity. The only thing he seems disposed to do to make matters different is to throw some hard words into the muddiest places and then continue his custom of turning out on to the highway with his rut digger every time the ground is too wet for plowing. Now if the Legislature is to do anything for the roads, let them begin by legislating the narrow tires off the heavy lumber and truck wagons. I have seen a single heavy narrow-tired wagon, in the distance of a half mile, cause more damage than could be repaired in six days of ordinary road work. The question seems to be about this: Which is the better economy—wide tires and good roads or narrow tires and bad roads? The narrow tires are as much out of place on the farm as on the highway. Men admit that facts and philosophy are in favor of wide tires and say that when all the others will use wide tires they will do so. They seem to be afraid that they will do more than their proportionate share of good in this world! It seems that the legislation may have to help them out of their ruts!"

Save the Hay.

The past season has produced a most bountiful yield of the grasses, and probably the largest hay harvest in the history of the State has been secured, and mostly in the very best nutritious condition. It is an exception to the rule when hundreds of hay stacks fail to come within the vision of the traveler, especially in the central and western portions of the State. The cash value of this year's crop of tame grasses can safely be estimated at \$6,000,000, and that of the wild prairie varieties, \$12,000,000. To the casual observer these figures may seem high, but those posted upon the condition, through the most reliable crop reports, will consider these estimates below rather than above the actual figures.

Now what we especially desire in this article is to impress our readers with the importance of preserving this valuable crop and thereby save millions of dollars to the farmers of the State. While this hay is now mostly in the very best condition, so far as to quality, it will not remain so much longer without rehandling at least a portion of it. In their haste to "make hay while the sun shines," a large majority of the harvesters hastily dumped it temporarily in very small stacks upon the ground. These are settling very fast, and, unless properly overhauled, will by the time our fall rains begin, be in just such condition as to be greatly damaged. This has been our observation in the past, and impels us at this time to give this word of caution and warning. A loss of one-third of this hay means a loss to the farmers of the State of at least \$6,000,000 at present prices. The fact that we have a large surplus this season does not, by any means, justify us in permitting the rain, sleet and snow to make any portion of it worthless. In case of a failure next year every ton saved this season will double in value next.

In view of the above facts, we trust that each and every reader of the KANSAS FARMER who has a ton of hay to spare will see that it is carefully secured against the rain, sleet and snow of this fall, coming winter and spring. All who can should have their hay pressed into bundles, as a large amount can in this way be placed under shelter, safe from the damaging elements. Those who cannot have their hay pressed should not fail to put it in a condition of security. A few days' labor spent in this way will undoubtedly save to the farmers of Kansas many millions of dollars. "A word to the wise is sufficient."

Impish Freaks

Are those of a disordered liver. But when that organ is thoroughly disciplined with Hostetter's Stomach Bitters, the bile is adequately secreted, diverted from the blood into its proper channel, digestion grows active, the skin and eye balls lose their bilious tinge, pain in the vicinity of the liver ceases, sick headache and nausea depart. The Bitters is an incomparable preventive of malaria, rheumatism and kidney complaint.

The Stock Interest.

The Management of Weanling Colts.

In the next few weeks thousands of colts, wisely remarks the *Homestead*, will be weaned on the farms of the West. A large per cent. of them will be damaged between this and grass. We say "will be," because they always have been, and an error in the management that grows out of erroneous ideas cannot be weeded out in one year. It is well if it can be in one generation. Before improved horse breeding was introduced, when farmers grew horses only for their own use, and hardness was in greater demand than size or selling quality, the notion became quite prevalent that a hardy horse could be obtained only by training it from a colt to endure hardness. The colt can accommodate itself to hard conditions more readily than the calf, and hence it was allowed to rough it. It is human nature to place burdens on broad backs, so long as the owners of the aforesaid backs do not rebel and assert themselves. Again, there is a certain per cent. of farmers who are careless, or poor feeders, and still others who would feed well if they thought it would pay, but cannot see the wisdom of feeding oats to a weanling when it can go through on grass or hay. Under these prevailing conditions it is morally certain that a large per cent. of weanlings will be damaged beyond repair between this and spring.

Under these conditions it is important for any owner of a weanling to see clearly what kind of a horse will bring him profit, to see at a glance what each individual will be when matured, if fed properly, and what it will be if fed improperly, and to calculate in his own mind the difference in price in the present market. In draft horses, and it is of these we now speak, because the farmers grow few others, the demand is for large, sound horses with full muscular development. These are the only ones that bring big prices and pay big profits, and these, no matter what the breeding, can be grown only with a good foundation laid the first year. Inheritance is the architect which projects the ground plan, declares nature's intention, so to speak; the farmer himself is the builder, and if he does not lay a foundation all efforts to raise the superstructure will be unavailing. The foundation is laid the first year, and if not laid then, can never be laid afterwards. That foundation can be laid only by feed. The mother's milk will suffice for the first two or three months, but after that grain is needed, if the colt is to be on a higher foundation than the mare. If at weaning time this is shut off at once, and a sudden change of diet forced on the young thing, damage must follow with a modification of nature's plans to suit the harder environment. If this colt is brought down to poor pasture, frosted grass and hay, nature will give her verdict in favor of a frame small enough to be supported by this kind of feed, and from her verdict there is no appeal. Is not this at once natural and reasonable? Is not nature wholly right in this? The remedy is food in sufficient quantities to carry out the designs of the original architect, and have nature working with instead of against the farmer.

In other words, why not accustom the colt to a grain diet before weaning? Let him learn to depend on other food, and, more important still, learn to depend on his own ability to support himself. If he eats grain like his mother and with his mother, he will graze with her and like her, and when weaned will be self-reliant and self-respecting. After weaning, if the proper foundation is to be laid, let him have oats and plenty of it. When the Englishman said that oats was the proper food for Scotchmen and English horses, Sandle's reply was: "True, but where can you find such men and such horses?" There is something about good, sound oats that puts vim and energy into man or horse, as well as muscular strength and development, and we know of no other animal on the farm that can make better use of it than a weanling colt. Four quarts of oats a day, fed to a well-bred draft weanling colt, will bring a profit at any price at which the grain has sold for the last twenty years. The profit may not be apparent at first, but it will fully appear when the colt is ready for service. In addition, it should have good, clean hay, and a chance for a run on grass to

stretch its muscles. It will pay to give a little oats the second winter with an equal amount of corn, but a well-bred colt, fed generously on oats and with a little corn in cold weather the first winter, will go through the second and third on winter pasture without grain, and give an account of itself that will surprise the owner. Horses are lower than they were, but there is still a good profit in the best, and the best cannot be grown, no matter what the parentage, without generous feed the first winter. It is time to get rid of the notion that the first requisite of the colt is hardness.

Anti-Horse Thief Association.

Very few people realize how formidable and extensive an organization the Anti-Horse-Thief Association is, but the name indicates its purposes and objects, and for several years the organization has been in successful operation in Kansas and other Western States. Whenever a member loses an animal by theft or otherwise, a detail of the order run the thief down in short order. The order is a terror to horse-thieves and evil-doers generally, and is constantly gaining strength and efficiency every year.

The annual session was held in Wichita last week and about 300 delegates were in attendance.

It was resolved to divide the State into four districts, outlined by the intersection of the third standard parallel and the ninety-eighth meridian, with an organization for each district. Following are the organizers: First district (northeast), R. H. Shearer, Stanton; Second district (northwest), J. R. Wilson, Delphos; Third district (southwest), C. L. Nash, Nickerson; Fourth district (southeast), M. H. Church, Waco.

The following officers were elected for the ensuing year: President, William Dunkin, Independence; Vice President, A. F. Paul, Hutchinson; Secretary, A. W. Postlewaite, Earlton; Treasurer, W. B. Rilling, Girard.

Delegates to the national convention at Cabokia, Mo.: William Dunkin, T. A. Stanley, J. M. Waterman, F. McFarland, D. E. McClelland, J. M. Burt, C. F. Leach and D. K. Morriss.

The next State convention will be held at Paola the third Wednesday of October, 1892.

Live Stock Husbandry.

Last year Kansas stockmen felt that it was necessary to run their stock through on scanty fare, and the result was certainly very unsatisfactory and in some cases exceedingly deplorable. Feed was high-priced and scarce and the stock were unduly stunted. It is safe to assume that no farmer desires to repeat under any circumstances the experience of last winter. This year we are blessed with abundant feed, and every stockman should make it a point to preserve it in fine condition and feed all classes of stock liberally and judiciously, and so far as possible recover losses sustained last year.

The summer pork packing season ended with last week and the winter is inaugurated this week. The present indications are that the slaughtering of hogs during the eight months of the summer season will reach 950,000. This will be something like 350,000 short of the slaughtering for the summer season of 1890. This would indicate a tremendous shortage in the marketing of hogs during the past season, but the shortage in Kansas City is only as "a drop in the bucket." Chicago, which packed 2,500,000 hogs during the summer season of 1890, will do well if her total for 1891 exceeds 1,600,000. Omaha, the third packing city, is 200,000 short, St. Louis 100,000, Cincinnati 75,000, Indianapolis 150,000, Milwaukee 150,000, Wichita 100,000, Cedar Rapids 100,000, and other smaller packing points show a proportionate shortage. The total packing at all Western points will be very close to 6,500,000, as against 9,200,000 for the summer season of 1890, making a total shortage of about 2,700,000 hogs.

The *National Live Stock Reporter*, official market paper of the St. Louis stock yards market, proposes to demonstrate that that market is a first-class one for stock in prime condition and therefore offers \$850 in premiums for a Christmas fat stock show with premiums as follows: Best car of fourteen native steers, \$250; second best, \$50; best car of sixteen Texas or Indian steers, \$250; second best, \$50; best car of sixty native wethers, \$100;

second best, \$25; best car of fifty hogs, \$100; second best, \$25. All these premiums will stand good, and be paid as awarded by the judges. All that is necessary to make an entry good is for the stock to be on the ground at the time stated. The judgment in every case will be from a butcher standard of matured animals and the combination of weight with quality, regardless of age or breed. In the cattle classes the animals can hardly be too heavy, but there is no advantage in the hogs weighing over 300 pounds. The sheep should be over a year old, as it is not a lamb premium.

In discussing the problem of land-owners engaged in live stock husbandry in competition with those stockmen who operate on the free range, the *Homestead* says the only way is to breed past Chicago by the use of improved blood, not necessarily thoroughbred, but the kind of grade stuff that is the result of the use of thoroughbred sires and grade dams. To this end, we think, every farmer who intends to grow cattle at all should bend his best energies. It is hopeless to enter into competition with the man who pays no taxes and no rent for his land, but uses the land belonging to the whole people. According to the recent census there are nearly 7,000,000 cattle grown under these conditions, and with these the farmer must compete if he does not breed past Chicago, that is, if he does not breed cattle that will find a consumptive market neither as dressed beef nor as filling for tin cans. It can be done and is being done, and one main trouble with the present market is that there are not enough of this class of cattle. There has been plenty of grief for cattle-growers in time past, but here is a way out of the trouble if farmers will only take firm hold. It is useless to talk about keeping up the fertility of land without cattle of some sort. If we must have cattle, and are not going into dairying, by all means breed cattle for which there is a market from consumers who are able and willing to pay a decent price for it. Breed for a purpose and breed past Chicago.

Deafness Can't be Cured

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

We will give One Hundred Dollars for any case of Deafness (caused by catarrh) that we cannot cure by taking Hall's Catarrh Cure. Send for circulars, free.

F. J. CHENEY & Co., Toledo, O.
Sold by druggists, 75 cents.

Send for catalogue and specimens of penmanship. Topeka Business College, 521 and 523 Quincy St., Topeka, Kas.

Farm Loans.

Lowest rates and every accommodation to borrowers on good farm loans in eastern Kansas. Special rates on large loans. Write or see us before making your renewal. T. E. BOWMAN & Co., Jones Building, 116 W. Sixth St., Topeka.

Never throw away the pieces of lemons after they have been squeezed with the lemon squeezer. They will come in handy for removing the stains from the hands and other articles. Dipped in salt they will scour copper kettles nicely and remove stains from brass work. They will take stains and dirt and odor from pans and kettles as nothing else will. The odor of fish and onions can thus be removed easily.

Consumption Cured.

An old physician, retired from practice, had placed in his hands by an East India missionary the formula of a simple vegetable remedy for the speedy and permanent cure of Consumption, Bronchitis, Catarrh, Asthma and all Throat and Lung Affections, also a positive and radical cure for Nervous Debility and all Nervous Complaints. Having tested its wonderful curative powers in thousands of cases, and desiring to relieve human suffering, I will send free of charge to all who wish it, this recipe in German, French or English, with full directions for preparing and using. Sent by mail, by addressing, with stamp, naming this paper, W. A. NOYES, 320 Powers' Block, Rochester, N. Y.

OREEPING MALARIA.

Insidious and Stealthy in Its Approach.

Deadly and Unyielding in Its Grasp.

Extracts From a Letter at the Surgical Hotel, Columbus, Ohio, by Dr. S. B. Hartman.

[Reported for the Press.]

The onset of malaria is often so very insidious that it is quite difficult to detect the nature of it until after it has fastened itself thoroughly in the system. Malaria often will pester a person for months without making him sick abed, but making him genuinely miserable,—creeping rigors, coated tongue, appetite changeable, and many indescribable sensations of genuinely disagreeable kinds. Chills and hot flashes of very irregular duration and recurrence come and go without seeming cause. The hands and feet are usually cold and clammy, and the general tendency is to dryness and coldness of the skin of the whole body.

Among the symptoms to which this class of patients are liable, but not always present, may be mentioned neuralgic headache, nervous chills, hysteria, sinking or faint spells, distressing palpitation of the heart, defective eyesight, total inability to read, write, or do any business; urine abundant, without color, and loss of flesh. Melancholy feelings, a discouraged, listless state of mind, mental depression and confusion of the mind, surely indicate the presence of malaria. This form is called malarial biliousness. For this "walking malaria," which neither puts one to bed nor allows him to work or study, Pe-ru-na should be taken as directed on the bottle. A course of Pe-ru-na will entirely cleanse the system of every particle of the malarial poison. Therefore, if you have any kind of bad feeling which you attribute to malaria, by all means follow this treatment. It at once restores the appetite, clears the befogged senses, and brings back the hopeful state of mind which malaria is sure to destroy. A thorough use of it will convince you of its wonderful power in all such cases. Pe-ru-na can be relied on to cure these cases and restore to perfect health as speedily as the chronic nature of the difficulty will allow. Should constipation exist at the same time Man-a-lin should be added. The Pe-ru-na tones up the nervous system and enriches the blood, giving strength and vitality, while Man-a-lin restores the activity of the excretory glands, enabling the system to rid itself of accumulated poison, bringing back to this most unfortunate class of invalids the flush and good feeling of perfect health. Directions for use accompany each bottle.

For a complete treatise on Malaria, Chills and Fever and Fever and Ague, send for The Family Physician No. 1. Sent free by The Peruna Medicine Company, Columbus, Ohio.

Bargains in Books.

We have a stock of very valuable and salable books which we will sell at *one-half the usual selling price* to readers of the *KANSAS FARMER*. These books are the remainder of a large lot which we bought for cash, and in order to close them out soon we make a *special price* on them as follows:

"A NORTHMAN SOUTH," or the Race Problem in America, by a Northern man who spent many years in travel and life in our Southern States. A history of the colored brother, his present condition, and what to do with him. Paper, 10 cents.

"THOUGHT AND THRIFT."—A book of 358 pages, on subjects in every letter of the alphabet for all who labor and need rest—a looking forward, by Joshua Hill. Price in paper 30 cents by mail, or in cloth 60 cents.

"LADIES' GUIDE TO NEEDLE WORK AND EMBROIDERY."—This book is what its name indicates and is very useful to the lady members of the family. It contains 158 pages, will full descriptions of all the various stitches and materials, with a large number of illustrations for each variety of work. In paper 25 cents, postage paid.

"HINTS ON DAIRYING."—This is a nice little volume in flexible cloth cover which treats the subject in a practical way in chapters as follows: Historical, conditions, dairy stock, breeding dairy stock, feeding stock, handling milk, butter-making, cheese-making, acid in cheese-making, rennet, curing rooms, whey, etc. Price 25 cents, postage paid.

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Officers or members will favor us and our readers by forwarding reports of proceedings early, before they get old.

SPECIAL.

We want some members of every farmers' organization—Grange, Alliance or F. M. B. A.—to regularly represent the KANSAS FARMER and help extend its fast-growing circulation and usefulness. Please send name and address at once.

Our New Alliance President.

In speaking of the election of W. H. Biddle, of Butler county, as President of the Kansas State Alliance, the *Hlwatha Journal* says: "The editor of this paper has been intimately acquainted with Mr. Biddle for ten or eleven years, and takes pleasure in saying that in him the order has an honest, conscientious, upright and enthusiastic friend of their cause. A man who is scrupulously honest in all his relations in life. One who was among the very earliest to embrace the Alliance movement, and who has been constant in his devotion to its doctrines and principles. With proper help and advice from others equally true to our cause, Mr. Biddle will conduct the affairs of the State Alliance in the straight and narrow way of right. Any mistake made by him in his official action, will be a mistake of judgment, and not of purpose, for from our extended acquaintance with him, we do not hesitate to express our belief that he will give to his trust his constant and best effort."

The *Salina Union* says: "We believe the F. A. & I. U. of Kansas made no mistake when they elected W. H. Biddle President of the Alliance. In Mr. Biddle we have a strong man, who is heart and soul in the work, and stands squarely on the platform. He is an old soldier, was Vice President under Clover. He was candidate for State Treasurer on the People's ticket last fall."

Manhattan Republic: "The election of W. H. Biddle as President of the State Farmers' Alliance spoils a favorite Republican lie—that the Alliance is pledged against prohibition. He was formerly a Republican, but joined the third party prohibitionists about six years ago, and voted for Gen. Fisk at the last Presidential election. He is an earnest Christian, is about 50 years of age, and has a large family of children. He is an old soldier, having served in the civil war, and now draws a pension."

Fiat Money.

A correspondent of the *Farm, Stock and Home*, signing himself "An Old Farmer," disposes of an extremely aged chestnut in a very pointed and comprehensive manner. He says:

"One of our Northwestern agricultural papers cautions farmers, and asks them to study the question of paper or fiat money, and asks: 'Can government make value out of something worthless, and should

not paper money, to be at all useful, be redeemable in something having value?' I would like to ask the youth who penned that article if the credit of the government is not of value, if paper money is pledged by the government to pay all government debts and demands, why is it not as good as individual notes? What makes gold, silver, copper and other stuff more valuable if not the government stamp? Suppose our government should refuse to put the money stamp on the metals now in use, would they be worth as much a pound as stamped? The writer quoted from does not seem to understand the point made by advocates of paper money alone. We believe that money should be simply a convenience in making exchanges of products, that the values are in the products we wish to use, and not in the money itself. Such paper being guaranteed by the government and accepted for all government dues, would simply make it safer and more convenient than individual, or city, or State notes. Gold is not plenty enough for a basis of circulation, and not being plenty enough, gives opportunities of control to those who would ruin others for their own gain."

Senator Plumb on the Supply of Currency.

In what is known as his great speech of June 6, 1890 in the United States Senate, Senator Plumb summed up the supply of currency in a way that no other Senator presumed to call in question. After saying that "the Treasury Department has always contributed to the policy of contraction," and that "the Treasury Department is consciously or unconsciously deceiving the people," he said:

"Let us see, therefore, how much money is available for actual use among the people. From the total of \$1,500,000,000 arrived at as shown above, must be deducted an average of \$200,000,000 which the Treasury always keeps on hand, and about which something has been said in the debate on this bill, and that leaves as the maximum which may by any possibility be used \$1,300,000,000."

"There ought, in fairness, to be deducted from this \$150,000,000 error in estimating the gold in the country, which would reduce the money outside of the Treasury to \$1,150,000,000. From this should be subtracted the \$600,000,000 kept as reserve, as before computed, leaving a balance of but \$550,000,000 which is available for delivery or actual use in the transaction of the business of the people, or a trifle over \$8 per capita. But the force of my argument is not materially weakened by conceding the gold coin to be as estimated by the Treasury Department, which would leave in actual circulation \$700,000,000. In order to make up this amount all doubt must be resolved in favor of the Treasury and against the people, but the doubt as to the amount of lost and destroyed notes and that as to the gold supply. If I were deciding this case upon what I considered the best evidence, I would be bound to say that I considered the money in actual circulation did not much, if at all, exceed \$500,000,000."

National Farmers' Alliance Meeting.

All Kansans who expect to attend the national meeting, at Indianapolis, November 17, and desire reduced rates, should send their names, to J. B. French, Secretary, Topeka.

The eleventh annual convention of the American Federation of Labor will be held this year at Birmingham, Ala., beginning December 14. As the time approaches for the holding of this convention, the thought arises in the minds of all sincere workers in the cause of labor reform that every organization affiliated with the American Federation should make the greatest efforts and even temporary sacrifices, if necessary, in order that every union may be fully and fairly represented, as on every hand we find organization and combination on the part of those who own or control wealth, and using their possessions to crush out the liberties, to stifle the voice, and pervert the rights of the tolling masses.

The first and only work ever written on currency reform in German is "Geld," by Robert Schilling. It is a translation and enlargement of his "Silver Question" and sure to make converts. The retail price is 25 cents, but it will be furnished to reform organizations and agents at a greatly reduced rate. A sample copy will be sent for 10 cents. Address the author, Robert Schilling, Milwaukee, Wis.

National Citizens' Industrial Alliance.

To National Board of Organization, the National Officers and National and State Organizers of the National Citizens' Industrial Alliance:

BROTHERS:—The coming meeting of the National Council of the Farmers' Alliance and Industrial Union, at Indianapolis, Ind., on the 17th of November, 1891, promises to be the most important meeting of our industrial classes that has ever been held in this country within the past century, and as the Executive committee of the People's party has also been called to meet there on November 16, and as our organization by its national officers and organizers has been invited to be present and take part in those meetings, we therefore call our National Board of Organization to meet there on November 16, and we urge every person holding a commission as a State or National Organizer to meet with the National Board of Organization, as advisory members, and we ask all of the members of the National Reform Press Association to give this call a prominent place in the columns of their papers.

Respectfully submitted.

THOMAS W. GILRUTH, President.
 NOAH ALLEN, Vice President.
 W. F. RIGHTMIRE, Secretary.
 W. S. MORGAN, Trustee.
 G. H. FLINTHAM, Trustee.
 O. H. DRINKWATER, Trustee.
 JOHN H. RICE, Trustee.

There are calls for a German Alliance and People's party paper all over the country. The *National Reformer*, of Milwaukee, Wis., has been in existence eleven years and during all that time has steadfastly advocated the principles of the movement.

For scrofula in every form Hood's Sarsaparilla is a radical, reliable remedy. It has an unequalled record of cures.

Attend the Topeka Business College, 521 and 523 Quincy St., Topeka, Kas.

Produce wanted in exchange for dry goods, boots, shoes, cloaks or notions. Will take all kinds of produce at retail prices. DENNIS' STORE, 612 Kansas Ave., under Crawford's opera house, Topeka.

FOR EXCHANGE—For clear property and cash, one stock of shoes, about \$15,000; one stock of general merchandise, \$50,000; one stock of merchandise, \$35,000. Address J. H. DENNIS, Topeka, Kas.

No More Sickness After Using Steketee's Hog Cholera Cure.

So says R. M. Boyd, of Tecumseh, Mich., in a letter to Mr. Steketee, September 29, 1891: "Last fall I had trouble with my hogs; lost quite a number. Steketee's Hog Cure was recommended. I used two packages on the balance I had left, and since then have lost no more nor had any more sickness."

Mr. D. P. Anthony, of the same place, writes: "You will not have any sickness with your hogs if you use Steketee's Hog Cure. I used it on my sick hogs last fall and it worked like a charm."

Farmers, now is the time to have it on hand, in case of sickness. Don't let the druggist bluff you by saying, "I have something better," because it is only to get rid of some worthless stuff. If they have it not send 60 cents in stamps and I will send it by mail. Address: G. G. STEKETEE, Grand Rapids, Mich.

Cheap Rates to Denver.

Those desiring to visit Denver will soon have a splendid opportunity.

The Mining Congress will be held in the "Queen City," November 18 and 19, and it is expected a great many will visit Denver and other Colorado cities about this time.

For the especial accommodation of these visitors the Union Pacific has made a rate of one and one-third fare for the round trip. Tickets will be on sale November 16 and will be good for return passage until and including December 6.

For further information regarding time of trains, etc., apply to A. M. FULLER, Agent Union Pacific System, 525 Kansas Ave., Topeka, Kas.

Attend the Topeka Shorthand Institute, 521 and 523 Quincy St., Topeka, Kas.

Special Offer.

We have special arrangements with the publishers of the *Weekly Capital*, the official State paper, a large 12-page weekly newspaper with full dispatches and State news, price \$1. We can supply both the *Capital* and the KANSAS FARMER one year for only \$1.50. Send in your orders at once.



For the Home.

CHOICE AND POPULAR ALTO SONGS.

Thirty-three Choice Songs for the Alto Voice. Large Sheet Music Size. Paper, \$1; Boards, \$1.25; Cloth \$1.50.

No better collection of songs for contralto voice has ever been prepared. It is the one volume of all others needed by all singers whose voices require low-pitched keys.

COLLEGE SONGS FOR GIRLS.

Compiled by Florence Leonard, Smith College, '88. Handsomely bound in Heavy Paper, with Lithographed Covers, \$1.

The first and only book of College Songs for girls ever published. It will be popular and widely used.

WINNER'S EUREKA INSTRUCTION BOOKS.

For the Violin, Guitar, Banjo, and Mandolin. Price of each Book, 75 cents.

These books do for you just what a teacher would do. With the Winner Instruction Book you can learn to play any easy, simple piece of music on any instrument. Besides the instruction pages, each book contains nearly a hundred pieces for that instrument.

SONGS AND GAMES FOR LITTLE ONES.

By Gertrude Walker and Harriet S. Jenks. 120 pages, octavo size, handsomely bound in cloth, \$2.

The brightest and most enjoyable book for little children.

QUIXOTIC QUAKERS.

By Allan Dikmuth. Price 80 cents, postpaid.

An Entertainment, brimful of humor and bright music. Eight young ladies and two young gentlemen are needed in the cast.

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Publish and sell the Kansas Statutes, Kansas and Iowa Supreme Court Reports, Spalding's Treatise, Taylor's Pleading and Practice, Scott's Probate Guide, Kansas Road Laws, Township Laws, etc., and a very large stock of BLANKS, for Court and other purposes, including Stock Lien Blanks, Conveyancing Blanks, Loan Blanks, etc. For fine printing, book printing, binding, and Records for County, Township, City and School Districts, send orders to this, the oldest and most reliable house in the State.

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10 CENTS (silver) pays for your address in the "Agents' Directory" for One Year. Thousands of firms want addresses of persons to whom they can mail papers, magazines, pictures, cards, etc. FREE as samples, and our patrons receive bushels of mail. Try it; you will be WELL PLEASED with the small investment. Address T. D. CAMPBELL, D. 604, Boylston, Indiana.

Hatch Chickens by Steam! IMPROVED EXCELSIOR INCUBATOR Will do it. Thousands in successful operation. Simple, Perfect and Self-Regulating. Lowest-priced first-class Hatchers made. Guaranteed to hatch a larger percentage of fertile eggs at less cost than any other. Send 6c. for illus. Catalog. GEO. H. STALL, Quincy, Ill.

Gossip About Stock.

The annual session of the American Shropshire Association met yesterday at Buffalo, N. Y., with a good attendance.

Improvement comes by substituting the higher for the lower. This is why in breeding we must be constantly introducing better blood.

The American Polled Durham Breeders' Association will hold its first annual meeting, Tuesday, November 17, at the Grand Pacific hotel, Chicago.

The fine polish on the horns of show cattle is given by first scraping with glass, rubbing with emery paper, and then rubbing well with linseed or neats-foot oil.

Lawrence Journal: W. H. H. Whitney has sold his sorrel team of Almont Pilot geldings to O. O. Hefner, of Lincoln, Neb., who will ship them to England. Price \$700.

During the week ending October 24, the receipts at the St. Louis stock yards amounted to 20,098 cattle, 20,523 hogs and 4,677 sheep, against 24,227 cattle, 24,448 hogs and 5,737 sheep during the previous week.

From a card received from M. F. Tatman, the enterprising breeder of fancy Poland-China hogs at Rossville, Kas., we learn that he has started on a ten or twelve days trip to the West. He expects to visit the principal hog men in that territory during that time.

Finly & Wilson, Auburn, Mo., lately purchased a fine eleven-months-old boar from Risk & Gabbert, Weston, Mo., for \$100. Messrs. Finly & Wilson are young men in the business, say Risk & Gabbert, and claim that they will establish a herd of Poland-Chinas inferior to none. They buy nothing but the best, regardless of price.

The Drovers' News says that everybody in any way connected with the market at Wichita is beginning to realize that the business there has outgrown the two packing houses, and that hereafter that market must depend on its own merits. There is more stock tributary to Wichita than can be taken care of by the two packing houses located in that city.

At the farm of J. W. Crancers, one and a half miles east of Neely, Leavenworth county, Kas., on November 10, there will be a public sale of thoroughbred Short-horns and Herefords, consisting of bulls, cows and heifers; also grade cows and calves, and twenty-eight three-year-old steers; also horses, sheep and hogs. For particulars see advertisement elsewhere in this issue.

Robert Rounds, Morganville, Kas., will hold a public auction of fine pigs on Thursday, November 19. He writes that he has a very fine lot of pigs, over 125 head, which he will offer for whatever they will bring. Those wishing fine Poland-China stock will do well to attend the sale. Notice his announcement in sale column, 16th page, and advertisement on 14th page. Sale date in latter is an error.

J. G. Cassida & Son, Chula, Mo., breeders of Poland-China, Chester White and Berkshire swine, took the following premiums at the Trenton (Mo.) fair this fall: First on Chester sow; first on Chester sow pig; sweepstakes on sow and male, any breed. They also made quite a number of good sales. The pigs sent by Congressman Mansur to Congressman Nelson, of Minnesota, were bought of Cassida & Son.

A breeder declares that if a cow should be born without a tail she might be used as the founder of a family of tailless cattle. Of course he expresses himself in this way only to emphasize the fact that any peculiarity may be bred into or out of animals. A pure-bred Short-horn heifer was born hornless. Several of her calves were also born polled; these were carefully saved, and in time a strain of polled Short-horns were produced.

In remitting for advertisement, Risk & Gabbert (successors to J. S. Risk), Weston, Mo., say: "Sales are good. Have some March and April male pigs that are nice. We have an extra fancy lot of fall pigs sired by Royalty 1666 S., Gov. Cleveland 480 S., Tariff Reform 1422 S.—a full brother to Free Trade, that sold for \$800 a few days ago to Bebout & Finch Co. We also have a few pigs from the noted boar, Corwin U. S. 24407 S. C. U. S. cost us \$200, and has proven himself to be a good breeder, and as an individual has few equals." Breeders wishing fall pigs would do well to write or visit the herd of Risk

& Gabbert, Weston, Mo. They say that they are well pleased with their returns from the KANSAS FARMER, as usual.

The American Berkshire Association will publish free in the current volume of its Record, the names of all recorded Berkshires that have taken first premiums at any regularly organized fair in the country, says the *Swine-Breeders' Journal*. Exhibitors desiring a place in this list should send the Secretary of the association, at Springfield, Ill., the names and numbers of the animals that have taken such prizes, as well as the name and location of the fair, and name and address of its Secretary.

On opening a letter from the River Home stock farm, Emporia, Kas., a few days ago, we were greatly surprised at the following: "Please change advertisement of Austin & Gray Bros. to Wm. Gray, successor to Austin & Gray Bros." From the letter we learn that Mr. Gray has bought out the interests of the other members of the firm. As the horses of River Home stock farm were selected in and shipped direct from Europe, we have no doubt but that Mr. Gray will fully keep up the reputation of the old firm.

During the eight months ending August 31, 1891, there were imported into the United States, free of duty, 144 head of cattle, valued at \$25,455; 2,077 horses, valued at \$778,653; 4,012 sheep, valued at \$101,320. Dutiable, 769 head of cattle, valued at \$6,848; 7,661 horses, valued at \$857,096; 39,839 sheep, valued at \$154,793. During the same period there were exported 226,133 head of cattle, valued at \$19,360,650; 50,837 hogs, valued at \$662,274; 2,264 horses, valued at \$430,395; 950 mules, valued at \$120,059; 46,569 sheep, valued at \$216,861.

No breeder in the West has done more to advance the interest of Shropshire sheep than W. T. Clark, Monroe City, Mo. His show flock at all the leading fairs consisted of imported as well as home-bred sheep, and it is significant to note that the sweepstakes were invariably won by his home-bred sheep. He reports recent sales as follows: A yearling ram to Jonas Myers, Hamlin, Kas., \$100; yearling ram to A. B. Colson, Montrose, Mo., \$85; seven one and two-year-old ewes to J. L. Shoup, Holden, Mo., at \$65 each; and an \$85 ram and \$75 ewe to G. T. Rawlins, Brookfield, Mo.

Our good friend Mrs. Sproul, of Frankfort, Kas., in remitting us for advertisement to date, says: "I am going to take a little rest from the poultry business, and will have my stock sold in a short time, save enough for home. I have worked hard the past ten years to make my poultry yard a success—as it surely has been. My business is flourishing and poultry letters arrive daily." The very many poultry fanciers throughout the State who have bought fine birds of Mrs. Sproul will join with the KANSAS FARMER in wishing the lady great enjoyment in her well-earned rest.

We are in receipt of the second annual catalogue of pure-bred Shropshire sheep and Poland-China swine issued by Foster Bros., Monterey, Mich. This illustrated catalogue is unusually handsome, and ably and enthusiastically proclaims the fact that the Shropshire has come to stay, because they fill the requirements of the farmer for a perfect general-purpose sheep. These gentlemen spare no pains to have the best breeding and merit, in both sheep and swine, sufficiently strong for vigorous transmission. Parties desiring to purchase such stock should not fail to send for this catalogue. Also kindly mention the KANSAS FARMER.

A weak solution of cooking soda will clean a hair brush without weakening the bristles.

Gravy will generally be lumpy if the thickening is poured in while the pan is over the fire. Set the pan off until the thickening is well stirred in, then set it on the fire and cook thoroughly.

EYE, EAR, NOSE AND THROAT.

JOSEPH W. McKEE, A. M., M. D.,
SURGEON KANSAS CITY EYE AND EAR INFIRMARY,

Has an experience of over 50,000 treatments or from twenty to sixty treatments daily throughout the year. Abundant references.

SEND FOR QUESTION BLANK.

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ST. JACOBS OIL
TRADE MARK
THE GREAT REMEDY FOR PAIN
Sprains, Bruises, Burns, Swellings,
PROMPTLY AND PERMANENTLY.

CURES
RHEUMATISM,
NEURALGIA,
LUMBAGO,
SCIATICA,

\$1,000
FOR AN
OLD COIN.

and by merely keeping your eyes open when handling money, you may find many coins that we want. A short time since, a Lynn, Mass., shoe dealer found a coin worth \$1100. Recently a Scotchman in an Illinois town came across a coin worth \$700. Others have done even better. The *New York World* says: "Many people have become rich by looking after coins wanted by collectors." The *Home Journal* says: "Collecting coins is a very profitable business now-a-days, as there are but few in it. One Boston broker, Mr. W. E. Skinner, buys from agents all over the country, and pays them big sums for rare coins." Coins that are very hard to find in one section of the country are often easily found in others. Largest business, highest prices. Write at once for further particulars enclosing stamp for reply, which may be worth hundreds of dollars, perhaps a fortune to you. W. E. SKINNER, Reliable Coin Broker, 325 Washington St., Boston, Mass.



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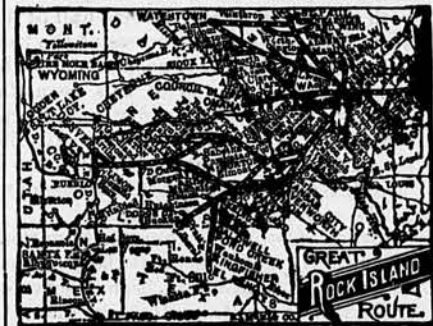
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The Home Circle.

To Correspondents.

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

A Helping Hand.

A helping hand we all may give,
If but a pleasant word to say,
And something find each day we live
To help another on the way.

A helping hand may sow the seed
From which the fruits of goodness grow,
And to the right may gently lead
The erring from the path of woe.

A helping hand to all mankind,
Among the rich, the poor, and low,
In every state of life can find
An act of kindness to bestow.

A helping hand we all may need,
When darkest sorrows leave their trace,
Some one to comfort and to lead,
To give us strength and divine grace.

A helping hand where'er we go,
A ray of sunshine may impart,
And but a deed of kindness show
A noble and a generous heart.

A helping hand is ever near,
In passing through life's troubled tide,
When all the world seems cold and drear,
It is a never-failing guide.

—Good Housekeeping.

FOSSIL FOOTPRINTS.

There are few regions of this world which are richer in fossil remains than the State of Kansas, and especially is it so with reference to the western half of the State. These silent witnesses of the past tell many wonderful tales concerning what has been the condition of this beautiful country, when, instead of dry land, it was the ocean bed. To those who have observed these wonderful specimens it will be of interest to read of other kinds found on the eastern coast of America.

Several footprints of reptiles of various dimensions, says the Springfield (Mass.) *Republican*, have lately been discovered about three miles from Holyoke upon the rock in G. L. Bosworth's quarry, near the shore of the Connecticut river, which have caused considerable excitement and elicited many inquiries. These discoveries occur not infrequently, more than 12,000 such footmarks having already been brought to light, and, in fact, it is well known throughout the scientific world that the new red sandstone of the Connecticut valley, which extends about 110 miles from north to south and averages about twenty miles in width from east to west, is one of the most prolific depositories of fossil prints. Slabs of this stone, having upon them the wonderful indentations, can be found in almost all the museums of this country and Europe.

A few days ago, accompanied by my friend, Professor Woodman, who is, as the world knows, one of the most profound scholars in the natural sciences, I visited Mr. Bosworth's quarry. The soil over the rocks, which is not very thick at that locality, had been removed and left exposed an extensive area, upon which a large number of tracks are apparent. Professor Woodman said that in all his ramblings through the world he had not seen such a large number clustered together in so circumscribed a space. Several of the tracks can be traced from one end of the quarry to the other. There is not only a large number of them, but they are of various sizes, and were made by animals of different species, though the conformation of the foot indicates that they belong to the same genus. Some of the tracks measure eighteen inches in length and ten in width; others are ten inches long, and there are others that do not measure more than three or four inches, and are of proportional width. A slab taken out near the edge of the public road which forms the northern boundary of the quarry has two large, well-delineated tracks upon its surface four feet six inches apart, which indicate the stride in the step of the animal. All the tracks bear the same conformation of the foot—that is, all have only three toes, and the steps bear the same characteristics; they are single; that is, made by bipeds. There is no doubt they are much smaller now than when first made. The mud in drying up must have contracted considerably to become as the rock is to-day—a crystalline texture.

Many of these fossil prints bear a close resemblance to the tracks of birds, so much so that for years many of them were believed to have been made by the feathered tribes, but since the discovery of the

dinosaurs in the triassic strata the question has been definitely settled. There is no doubt now that these tracks were made by several species of reptiles which have already been found in the triassic beds of Nevada and California and on the western slope of the Rocky mountains. The numerous tracks found show that these animals formed a large genus, with very many species. One species had three toes, another had four, and another five. The three-toed was the most numerous and produced species of enormous sizes. The brontozoum giganteum, the ortozoum moodii, belong to the three-toed variety, and were from fourteen to fifteen feet in height. The four-toed and five-toed species were not quite so numerous, but they produced individuals of still greater dimensions. Specimens have been found that measured eighteen feet in height, and their tracks twenty-four inches in length.

The fossils of all these animals show that all the species had large heads, saurian-like, enormous teeth. They all had four legs, but made little use of their fore legs, which were very small and atrophied for want of use. These characteristics indicate that they were in form, as well as in habits, closely allied to the bird family. The fact that they walked on their hind legs, that their bones were hollow like those of birds, that they had the same conformation of the foot and were biped in their habits, points to the conclusion that they were the primitive sketches of a new design which was just in the stage of its evolution, an intermediate form or a connecting link emerging from the reptilian genus into the genus bird. They are surely nearer the type bird than that of any other, and if it were not for their fore legs they might be classed at once as the primitive genus of the feathered tribe.

The fact that they had teeth does not preclude the possibility of their being intermediate between reptiles and birds, because teeth were a very common appendage to the primitive birds, and are still found with some of our living birds. The parrot and the penguin have rudiments of teeth and alveolar processes. That conformation in fossil birds was the law, and its absence was the exception. Several species had jaws like saurians and were saurian-like in their disposition and appearance. The archæopteryx, the gastornis, the hesperornis, the ichthyornis and many others were of that sort. Some of these birds had teeth three inches in length, sharp and pointed.

But the dinosaurs were not the only animals which had the privilege to rove over the muddy plain of this valley. A large number of other footprints have been found which must have been made by other animals belonging to different orders. The tracks of the labyrinthodonts, the enallosaurs, the belodonus lepturus, the dromatherium, and many others are often met with. In 1842 the late Professor Hitchcock had already examined 2,000 which had been made by thirty-two species of bipeds and fourteen species of quadrupeds.

In regard to footprints the question upon which centers the greatest interest is not about their number or nature, nor of the character or disposition of the animals that made them, but in their immense antiquity. If they dated only a few years back they would not be noticed. But their age is so immense that we can never form an adequate conception of its duration, and it is so with all the geological periods. The number of centuries required to bring the state of the earth from a vaporous mass into its concrete form, and then through the series of transformations which have marked the evolutions of the radiates into the articulates, and these into the mollusks, and the mollusks into the fishes, and the fishes into the reptiles, and the reptiles into the birds, and the birds into the mammals, and the mammals into the genus homo, baffle our imaginations. The only means we have to unravel the past is the division of time adopted for geology—that is, the æolic, or time previous to the appearance of the organic life; the eozolic, or the time when life first appeared; the paleozolic, or age of fishes; the mesozolic, or age of reptiles; the conozolic, or the age of the mammals. The evolution of a class of animals into other classes and species is called an age; the group of rocks laid during an age is an era, and each rock of an era is called a period; thus we say, the paleozolic is the

age of fishes, and comprises the Devonian era, which is composed of the "Portage," Hamilton, corniferous, and the Oriskany periods. The chronology of a rock is determined by its fossils if it is sedimentary, and by its chemical or physical composition and arrangement if it is plutonic. These minor points are indispensable for the intelligent study of the science and to enable one to grasp its intricate problems.

Wellesley's Inhibited Phrases.

The list of words, phrases and expressions to be avoided by young ladies of Wellesley college includes the following: "I guess so," for I suppose so, or I think so.

"Fix things," for arrange things, or prepare things.

The use of "ride" and "drive" interchangeably.

"Real good" or "real nice" for very good or really nice.

"I have studied some," for studied somewhat, or "I have not studied any," for not studied at all.

"Not as I know," for not that I know.

"Try an experiment," for make an experiment.

"Had rather," for would rather, and "had better," for would better.

"Right away," for immediately or now.

"Well posted," for well informed.

"Try and do," for try to do, or "try and go," for try to go.

"It looks good enough," for it looks well enough, or "does it look good enough," for does it look well enough.

"Somebody else's," for somebody's else. —Philadelphia Times.

Manners of Children.

One of the serious mistakes made by mothers in training their children is in supposing that careful habits can be cultivated in careless surroundings. A ragged or worn carpet, so little valued by the mother that grease or ink spots can be left on it without causing comment, may become a moral calamity. Tying the child up in a bib, and giving it liberty to spill its food when eating, is responsible for bad table habits in many men and women whom we meet. A child who is made to eat its food carefully, in a room where the furnishings are respected, where a penalty will follow carelessness, naturally acquires careful, refined manners. Many a mother spends more time repairing damages—the results of careless habits, due largely to the furnishings in the dining-room, than she would need to spend in setting a table carefully and keeping the room in order, so that its order and neatness commanded the respect of the children. The ounce of prevention is worth several pounds of cure in the training of children, and it is a pity that the ounce of prevention is not administered in the infinitesimal doses necessary in early childhood, rather than in the radical doses necessary to overcome neglect in matters that are never minor—for manners and habits mark the man. A man may be a moral man and eat with his knife, but he would be a more valuable man in the community if he recognized the uses for which the knife was designated and applied it only to those uses. —Christian Union.

If Fat Boils Over.

A kettle of boiling fat on a hot stove should be carefully watched. Fat boils at a much higher degree of temperature than water does, and this fact, together with the fact of the great combustibility of fat, makes an accident of spilled fat on a hot stove extremely dangerous. In case such an accident should happen, the natural impulse to throw water on the fire, is not the best one to follow. A large quantity of water might extinguish the flames, but a painful would only spread the fire.

Firemen say that the best way to put out a fire of this kind is to throw ashes or sand upon it. If a woman has not ample means of this kind at hand for putting out the fire, the best thing she can do is to run for aid, unless she knows that there is none within reach. In any case personal safety should be her first thought.

It is a natural impulse to try and remove the kettle from the fire, but if the fat is already afire it is not a safe thing to do, on account of the chances of spilling the fat on the clothing. Clothing saturated with fat would burn so readily that the wearer would stand but little chance of a safe escape.

In case a woman is so unfortunate as to have her clothes catch fire, the best thing

Dyspepsia

Makes many lives miserable, and often leads to self destruction. Distress after eating, sick headache, heartburn, sour stomach, mental depression, etc., are caused by this very common and increasing disease. Hood's Sarsaparilla tones the stomach, creates an appetite, promotes healthy digestion, relieves sick headache, clears the mind, and cures the most obstinate cases of dyspepsia. Read the following:

"I have been troubled with dyspepsia. I had but little appetite, and what I did eat distressed me, or did me little good. In an hour after eating I would experience a faintness or tired, all-gone feeling, as though I had not eaten anything. Hood's Sarsaparilla did me an immense amount of good. It gave me an appetite, and my food relished and satisfied the craving I had previously experienced. It relieved me of that faint, tired, all-gone feeling. I have felt so much better since I took Hood's Sarsaparilla, that I am happy to recommend it." G. A. PAGE, Watertown, Mass.

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that she can do is to lie down and roll, and if possible to wrap herself in something woolen, as a blanket, or shawl or rug. The worst possible thing to do under such circumstances is to run out of doors. Running only fans the flames and gives the fire a chance to spread and mount upwards. —Ex.

How Beeswax is Made.

One of the most interesting productions of bees is beeswax, and the process of making it is one of the most curious. If you examine the under surface of a cell-building worker-bee, you will find under the abdomen four pairs of white plates projecting from as many pockets in the rings of this part of the body. These are wax-plates made from the life-blood of the workers. If you now examine with a lens one of the hind legs you will find that the stoutest joints are "square-shouldered" at the hinge, and that the hinge is well over to one side, so that the shoulders form a pair of jaws which open when the limb is bent, and close when it is straightened. The upper jaw has a row of spines which bite on a plate on the lower jaw. With this apparatus the worker-bee withdraws a wax-plate from its pocket, and by piercing it with these spines, transfers it to the front legs and then to the mouth, where it is laboriously masticated with a salivary secretion. Unless it undergoes this process it lacks the quality requisite for cell-building. Few people would imagine that the tons of this article produced in the United States originates from such a minute and wonderful laboratory of nature. —Exchange.

Beauty is said to be only skin deep; but to possess and preserve a beautiful skin, pure, vigorous blood is essential. This is best secured by taking Ayer's Sarsaparilla in small but frequent doses. It is the most reliable of blood-purifiers.

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The Young Folks.

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EDITED BY MAMIE M. BRUNER.

Longings for Home.

Could I but return to my woods once more,
And dwell in their depths as I have dwelt,
Kneel in their mosses as I have knelt,
Sit where the cool white rivers run,
Away from the world and half hid from the sun,
Hear wind in the woods of my storm-torn shore,
Glad to the heart with listening—
It seems to me that I then could sing,
And sing as I never have sung before.

I miss, how wholly I miss my wood,
My matchless, magnificent, dark-leaved firs,
That climb up the terrible heights of Hood,
Where only the breath of white heaven stirs!
These Alps they are barren; wrapped in
storms,
Formless masses of Titan forms,
They loom like ruins of a grandeur gone,
And lonesome as death to look upon.

O God! once more in my life to hear
The voice of a wood that is loud and alive,
That stirs with its being like a vast bee-hive!
And oh, once more in my life to see
The great bright eyes of the antlered deer;
To sing with the birds that sing for me,
To tread where only the red man trod,
To say no word, but listen to God!

—Cincinnatus Heine Miller.

FRANKFORT-ON-THE-MAIN.

This German city was founded by Charlemagne, who was King of the Franks in 768, and in 800 was crowned Emperor of the Romans. This city was for a long time the capital of the German empire and also a rallying point of the Crusaders. The position which it occupies is one of no small natural beauty in the broad and fertile valleys of the Main, its northern horizon being formed by the soft outlines of the Taunus range. The surrounding country is richly clad with orchards and forests, and in the season of spring especially presents a prospect of indescribable luxuriance.

In earlier times the city and its fortifications formed an irregular pentagon, the longest side being defined by the right bank of the Main. Within the walls, the greater part of Frankfort is built in the old German style, but it is now becoming quite modernized. Only one side of the old Jew street called the Judengasse now remains. The other side was demolished since 1870. At an earlier period, the streets were very narrow, there being scarcely room enough for one team to pass through it. We give an extract from "Views Afoot," by Bayard Taylor, which is a good description of the streets of Frankfort when he was there, in 1844, but the streets have been widened and many of the old houses torn down: "On both sides of the street, leaving barely room enough to enter the houses, sit the market women, with their baskets of vegetables and fruit. The middle of the street is filled with female purchasers, and every cart or carriage that comes along has to force its way through the crowd, sometimes rolling against and overturning baskets at the sides. The country-women in their jackets and short gowns go backwards and forwards with great loads on their heads, sometimes as high as themselves."

On the Judengasse are situated the house in which Ludwig Borne, the great Jewish political writer and satirist, was born in 1786, and the dingy, unpretentious premises which saw the rise of the famous Rothschild family.

The principal ecclesiastical building in Frankfort is the cathedral of St. Bartholomew, which is situated not far from the river. This cathedral is 326 feet high.

They originally built their houses six or seven stories high, and every story projecting out over the other, so that those living in attics, Taylor says, could nearly shake hands out of the windows.

In the winter of 1844 Bayard Taylor called on Mendelssohn, one of the world's greatest composers, who was also spending his winter in Frankfort. He resided in the Bockenheimer Gasse.

A few steps from the old Markt Platz brings one to the square of the Remerberg, in a corner of which is a curiously ornamented house, formerly occupied by Martin Luther, the great reformer.

It was in the Rathhaus or Romer, in the Wahlzimmer, or election room, that the electors or their plenipotentiaries decided the choice of the Emperors, and in Kaisersaal, or Emperor's hall, the coronation festival was held. The new Emperor received his crown in this hall, and after dining with the electors stood on the balcony and was shown to the people assembled in the Romerberg. The ceiling of the

Kaisersaal is finished in the gorgeous illuminated style of the middle ages. Along each side of the wall are rows of niches for the portraits of the Emperors, that have been painted by celebrated artists. It is a remarkable coincidence, but the niches in the old hall correspond exactly in number with the number of German Emperors, so that the Emperor Francis, of Austria, closed the long rank coming down from Charlemagne.

Cincinnatus Heine Miller.

This American writer, better known as "Joaquin" Miller, was born in Indiana, November 10, 1841, in Wabash district. His parents removed to Oregon when he was 13 years of age, and a few years were spent with them on a farm. Afterward he became a miner, and not being satisfied with that, he returned to his old home in Indiana. Here he remained and studied law for three years, and in 1863 he returned to Oregon and took charge of a newspaper. But the paper was suppressed for disloyalty, and "Joaquin" opened a law office in Canon City, Oregon. In 1866 he was elected Judge of Grant county, Oregon, and he served four years.

While yet a youth he had begun writing poems, and his first two collections of poems were published under the nom de plume of "Joaquin."

Not contented, he made a trip to England and the southern part of Europe in 1870, and while there published "Songs of the Sierras." The "Songs" were well received and he became the lion of literary circles. When he returned to America, he settled at Washington, D. C. But he seems to have been quite a rover, for in 1887 he went to California.

He wrote many successful plays, including the famous play entitled "The Danites." His poems are: "Songs of the Sierras," "Songs of the Sunlands," "Songs of the Desert," "Songs of Italy," and "Songs of the Mexican Sea." His prose works are: "The Baroness of New York," "The Danites in the Sierras," "Shadows of Shasta," "Memories and Rime," and "Gold-Seekers of the Sierras."

A Pretty Experiment.

A pretty and interesting experiment, which may be new to some readers of the FARMER, is that which is given in the *Youth's Companion*, by which the growth of an oak plant can be watched from its earliest stage.

Cut a circular piece of card to fit the top of a hyacinth glass, so as to rest upon the ledge and exclude the air. Pierce a hole through the center of the card and pass through it a strong thread having a small piece of wood tied to one end, which, resting transversely on the card, prevents its being drawn through. To the other end of the thread attach an acorn; and having filled the glass half full of water, suspend the acorn at a short distance from the surface. The glass must be kept in a warm room. In a few days the stem which has generated in the glass will hang from the acorn in a large drop. Soon the acorn will burst, and the root will protrude and thrust itself into the water; in a few days more a stem will shoot out at the other end, and rising upward, will press against the card, in which a hole must be made to allow it to pass through. From this stem small leaves will soon sprout, and in the course of a few weeks the experimenter will be rewarded by having a sturdy little oak plant several inches in height.

Another pretty experiment is the turnip hanging-basket. Cut the bottom from a turnip and scrape out the inside, leaving a thin edge. Fill with sand, which must be kept moist. Tie a stout cord to each side of the turnip and suspend from a nail. In a few days the turnip will begin to sprout, and by a few week's time you will have a very pretty hanging-basket.

Questions--No. 9.

[The boys and girls who read this paper are invited to contribute to this department.]

1. What can you associate with the name Andrew Melk?
2. Where is the island of Osel?
3. Where are the Tarapons found?
4. Where were the earliest existing rings found?
5. Give short description of the Statue of Liberty.

ANSWERS TO QUESTIONS NO. 7—OCTOBER 21.

1. Louis Agassiz was born in Switzerland. He was one of the greatest naturalists in the world.
2. President Diaz.
3. Fifteen and a half million dollars was

The Farmer and the Government.

In view of the great interest on the subject of what the Government should do for the farmer, THE CENTURY MAGAZINE will print, during the coming year, a number of very important articles on such topics as "The Farmer's Discontent," "Coöperation," "What the Government is Doing for the Farmer," etc. The workings of the Department of Agriculture, and its practical value to the farmer, will be explained by an official of the Department.

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KANSAS FARMER.

ESTABLISHED IN 1863.

Published Every Wednesday by the
KANSAS FARMER COMPANY.

OFFICE:
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Corner Fifth and Jackson Sts.

SUBSCRIPTION PRICE: ONE DOLLAR A YEAR.

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Objectionable advertisements or orders from unreliable advertisers, when such is known to be the case, will not be accepted at any price.
To insure prompt publication of an advertisement, send the cash with the order, however monthly or quarterly payments may be arranged by parties who are well known to the publishers or when acceptable references are given.
All advertising intended for the current week should reach this office not later than Monday.
Every advertiser will receive a copy of the paper free during the publication of the advertisement.
Address all orders,
KANSAS FARMER CO., Topeka, Kas.

Topeka Grand opera house attractions:
This week—Thursday, Friday and Saturday, Mattie Vickers. Next week—Every night, Spooner Comedy Company.

It is estimated that the orange crop of Florida now going into market is fully twice as large as usual and will amount to 10,000 to 13,000 carloads. The California orange crop will also be large, being estimated at 5,000 carloads.

Our book sales are unusually large at the present time, and especially Senator Peffer's new book, "The Farmer's Side," which sells at the low price of \$1, or with the *KANSAS FARMER* one year for \$1.75, or mailed free for a club of four subscribers and \$4.

The review of trade by R. G. Dun & Co. for last week reports business improving, especially in the West. The iron industry, however, was somewhat depressed. Speculation in breadstuffs advanced the prices of wheat two cents, partly on account of the reported prohibition of exports of wheat from Russia. Corn advanced five cents, but pork products were a shade lower.

A bitter political campaign has just ended, and the people of the State with wonderful unanimity award the championship to ex-Gov. Geo. T. Anthony as the most conspicuous and genuine "calamity howler" in Kansas, and therefore it is hoped that when Senator Plumb's successor is to be chosen Gov. Anthony will not be the man, especially if legitimate business interests and the people are to be served.

The report of Prof. F. H. Snow, of the State University, shows that the mean temperature (54.14°) for the month of October was slightly below the normal, having been considerably cooler than usual during the first half, while the last half was warmer than during the same period of any year of the last twenty-four except 1876. The rainfall (1.35 inches) was half the average; the skies were 30 per cent. clearer than usual, and the wind velocity was 10 per cent. higher than the normal.

The Topeka sugar mill was leased last spring by Messrs. Pape & Hansford, who added various improvements and had the mill in excellent working order. They employed one of the best practical sugar-makers in the United States and were making a very satisfactory run, the value of the product being about \$300 per day above the expense of cane, fuel and labor. They were, however, disappointed in raising money, creditors became impatient before the product could be realized upon and seized the property, putting an end to the manufacture for the remainder of the season. The affairs of the lessees are now being settled by a receiver appointed by the court.

THE RETIREMENT OF GOVERNOR CRAWFORD FROM THE KANSAS FARMER COMPANY.

For some years ex-Governor S. J. Crawford has been a non-active member and part owner of the *KANSAS FARMER*, but recently concluded to sell out his interest to the other members of the company. The constantly growing business of the paper makes it necessary for the principal owners to do active duty, especially in the more responsible and important work of the paper, and this part of the work Governor Crawford had not the time or inclination to perform, and therefore disposed of his interest to the other owners, who can and do give it their time and attention.

E. B. Cowgill, formerly of Sterling, but now of Topeka, has bought an interest in the paper, and will be Vice President of the *Kansas Farmer* Company, and will become at once one of the regular editorial staff of the *KANSAS FARMER*. Mr. Cowgill is well-known throughout Kansas and the West as an able writer, a splendid business man, and a clean and honorable gentleman personally, and in every respect is a valuable acquisition to this journal.

Mr. Cowgill is a native of Ohio, and is now forty-six years of age. He was raised on a farm in Iowa and graduated at the Iowa State University in 1869, where he gave special attention to science as applied to industry. He settled on a claim in Kansas in 1871. Since coming to the State he has had a number of years' experience in newspaper work, besides his connection with the *Kansas State Agricultural college* for some time as one of the faculty, and his numerous contributions of important papers to reports of the State Board of Agriculture and other industrial publications, well fits him for his present work.

Mr. Cowgill was State Sugar Inspector under Governor Martin and has also made special investigations and reports for the United States Department of Agriculture during the last eight years. His past experience, observation and study, together with his natural inclination and special training for agricultural journalism, make him a desirable and valuable member of the *Kansas Farmer* Company.

THE CONSIDERATION OF ECONOMIC QUESTIONS.

By the time this number of the *KANSAS FARMER* reaches its readers the election of 1891 will have become a part of history, so that what is here said can have no influence as to how the votes are cast, nor on the present personal fortunes of candidates, nor on present party triumphs and defeats.

It should not be forgotten that this election is by all parties considered the skirmish preceding the great political battle of 1892.

What are to be the issues in the contest of 1892?

It is well to ask this question now while the excitement lulls, while the situation may be seen—to use a figurative expression—free from the smoke of the conflict, while passions are not aroused and while party whips are not chastising every voter who dares to entertain an idea not in strict harmony with the teachings of party dictation.

Even the most superficial review of recent manifestations of public thought renders it certain that the questions on which attention will be fixed, the questions on which the people will desire to express their opinions by their votes, are economic questions, questions affecting the prosperity of those who toil, questions affecting the distribution of the comforts of life, questions affecting the amassing of wealth, questions as to the feeding, clothing, housing, education and enjoyment of 65,000,000 of people.

That the partisan press and partisan public speakers cannot be relied upon for correct statement of facts, much less for

correct reasoning and conclusions, has been too recently and but too painfully manifest.

This only emphasizes the necessity for every citizen to be a student, an investigator of economic questions, using every impartial source of information and bringing to the work a profound desire to find out the truth.

Notice must be taken of the fact that men's selfish interests often influence them more than their sense of right, and that politics is by many made a sort of trade or occupation out of which to get a living. It must be remembered that the first object with such is to secure a nomination, and the second object is to be elected, and the third object is to make as good a living as possible out of the position.

Now securing nominations is a work on which a great deal of money is expended in various ways, and often a great deal of help is needed. Having entered the contest for a nomination the questions of the interests of the people become subordinated to the one great question of how to succeed. The aspirant becomes the representative of those interests which procure his nomination. In these respects the farmers' interests have generally been in the background, for the farming interest has not contributed money to control nominations, and the degree of isolation of the farmer's life renders it difficult for farmers to concentrate their influence in the caucus and in the nominating convention. Candidates have therefore found it much more profitable to look after other influences and to become the representatives of other than the farming interests.

The nomination secured, the heavy expenses of the campaign for election must be met, and the votes must be secured. Concentrated wealth is able to bring a thousand influences into the field under various masks, so that the question of election or defeat often turns on becoming the representative of some other than the interest of the whole people.

Thus it transpires that in practical politics, while economic issues may be of chief importance in the estimation and in the discussions of candidates, their statements, their arguments and their conclusions are distorted to fit the particular interests which have promoted their nomination and election.

There can be but slight difference between the economic interests of farmers in two States situated as are Kansas and Missouri. Yet in the campaign of 1888, when an economic question—that of the tariff—was a leading issue, the farmer vote of these States gave excessive majorities on opposite sides of this question, indicating a blind devotion to party leaders and a subservience to partisan prejudice, preventing a fair and candid judgment on the question at issue.

Now the questions of the next campaign, in which the farmers and all other workers in the United States are interested, are those of the production and the distribution of wealth. The principal divisions will be tariff, money, transportation.

By reason of being both capitalist and laborer, owning his farm and cultivating it, the farmer is in position to give a more impartial consideration to these subjects than can be given to them by other members of community.

It therefore is a matter of great importance not only for the farmer's own interest, but for the interest of the entire people that, now while the excitement of political warfare is allowed to subside, the farmers consider carefully and discuss thoroughly every branch of economic policy which is likely to become of public interest, with a view to arriving at dispassionate and correct conclusions and to so acting in harmony as to make fair and just measures prominent both before and after election.

For the purpose of contributing to the fair and honest ascertainment of the facts, the candid discussion of the questions and the determination of correct conclusions on these questions, the *KANSAS FARMER* will, during the year, contain valuable papers from its special contributors and editorials prepared with reference only to the truth as to facts, fairness as to reasoning and correctness as to conclusions.

Never in the history of the State were the farmers of western Kansas so busy at this time of the year as during the present autumn, putting in a large acreage of wheat, and at this writing have not yet completed the seeding, and the busy season is not yet over, for the bulk of the

wheat in stack is yet to be threshed and corn to be husked. It has been next to impossible to secure enough help and horses to do the fall work on time. Generally speaking, for the entire State, the farm work for spring, summer and fall has been unusually pressing. The spring opened late and harvest came on before the cultivation of corn was completed, and following harvest was resumed again; then came the threshing of seed wheat. Very few were able to get machines to thresh out the entire small grain crops, being glad to get enough for seed; following this came the haying season, followed by the seeding of wheat, and to complete the work of the season of 1891 together with the care of stock will make a busy winter for most Kansas farmers. It will require all the help, machinery and horses to complete the work on the crops of 1891 by the time the work of the new year begins.

OFFICIAL MORTGAGE STATISTICS.

The Superintendent of the Census has just issued an extra census bulletin entitled "Statistics of Farms, Homes and Mortgages, Kansas."

This shows the amount of indebtedness secured by real estate in the State, January 1, 1890, to have been \$235,485,108, exclusive of mortgages for commissions paid to loan agents. Of this amount \$167,145,039, or 70.98 per cent., was on acres, or almost exclusively farms, and \$68,340,060, or 29.02 per cent. was on lots.

According to the report of the State Auditor for 1889 and 1890, page 418, the aggregate assessed valuation of lands in Kansas in 1890 was \$168,283,199.17, and the aggregate assessed valuation of town lots was \$72,814,873.70.

The writer regrets that these comparisons do not make a more favorable showing. But it is dishonest, and at the same time bad policy, to distort the truth. It is better to look the facts squarely in the face and direct our course accordingly.

It is some relief to know that the estimate of Superintendent Porter, that the assessed valuation is only about one-fourth of the true value of the real estate, is approximately correct. Town lots are generally assessed at less than one-fourth, while farms are assessed at rather more than one-fourth of their true value.

The bulletin shows that not far from three-fourths of the mortgage indebtedness was incurred for purchase money, improvements, and to buy stock. This is a favorable commentary as to the frugality of Kansas borrowers, showing that they have not gone into debt foolishly.

The showing as to the rates of interest gives the largest amounts as drawing 8, 9 or 10 per cent., although considerable amounts are borrowed at as low as 6, and others as high as 12 per cent. The average rate is not far from 9 per cent.

The comparison of mortgage indebtedness and assessed valuation by counties is in some instances startling, but the late date at which the official bulletin is received makes it necessary to defer until another time a tabulated comparative statement of great value and interest to every investigator of the mortgage problem.

OUR VETERINARY EDITOR APPRECIATED.

The *Manhattan Republic* says that "Dr. Orr has been engaged by Supt. Cottrell to act as veterinary adviser for Vice President Morton's great farm at Rinecliff, N. Y. There are 111 head of pure-bred Guernsey cattle on this famous place. This engagement is a well-merited compliment to Dr. Orr."

Our readers will be glad to note this merited compliment to the skill and ability of our Veterinary editor, Dr. S. C. Orr, who has conducted so successfully that department of the *KANSAS FARMER*. His writings have been so practical and valuable that Dr. Orr has gained a reputation not confined to the State of Kansas, but has actually become national, as shown by his selection as the veterinary adviser for the superintendent of the farm owned by the Vice President of the United States.

The *KANSAS FARMER* is glad of this merited recognition of one of our staff, and especially so since the offer came unsolicited to Dr. Orr, and he will attend to this duty by correspondence with the superintendent of the farm. This new duty and honor conferred on our Veterinary editor will not interfere with his work on this paper.

CHEESE FACTORIES IN KANSAS.

Recently an inquiry was received by this paper from a Jefferson county subscriber wanting to know the number of cheese factories in Kansas and why more were not in operation in the State. The inquiry was referred to Mr. E. R. Kimball, manager of the Creamery Package Manufacturing Co., at Kansas City, Mo., for answer, and in his reply he states: "That at the present time there are fourteen cheese factories in operation in the State of Kansas. Just at the present time of year it pays dairymen to make the milk into butter instead of cheese, on account of the present high prices that butter is bringing. It has always been a wonder to me that there are no more cheese factories in Kansas, but the fact of the matter is that Kansas as a dairy State is yet new. Creameries and cheese factories are coming into the State and we look for a great many of them to be started during the coming year."

There is but little doubt that the dairy interests of Kansas will make rapid and substantial growth hereafter. There has been more pure-bred and grade Holstein-Friesian cattle brought in and sold in Kansas during the past five years than any other breed of cattle, and the progress and development of the dairy industry has been reasonably rapid since it has begun to attract the attention of our people. The conditions favorable to its development have in many respects been unfavorable until recently, but now everything promises better, making the outlook bright indeed for this industry, which will grow in importance from year to year and add to the wealth of our State.

SUGAR MANUFACTURE A SURE SUCCESS.

The Louisiana Planter, which is the great sugar journal of this country, in speaking of the progress made in the Northern sugar industry by the introduction of the alcohol process, says:

"In the sorghum sugar manufacture marked progress has been made, as is shown by reviewing its history. In the fifties, sorghum was extolled as a sugar-producing plant, but no sugar of account was made. In the sixties and in the seventies, sorghum was simply a syrup-producing plant. In the eighties, thirty to forty pounds of sugar per ton of cane were made, resulting in pecuniary losses. In the nineties, 150 pounds of first sugar per ton of cane has been easily obtainable, and, allowing for further increase in yield which may be reasonably expected from obvious improvements in the manufacture, and from greater experience, it is confidently expected that the nineties will show that 200 pounds of first sugar can be obtained from a ton of cleaned sorghum cane.

"A yield of 150 pounds of first sugar admits the establishment of an important industry on a safe basis. There are many millions of acres of land in the Southwest whose soil and climate are admirably fitted to produce sorghum cane containing 246 pounds of sugar in a ton of trimmed cane, that is cane cleaned of leaves and seed, and of this 246 pounds of sugar, 150 pounds is known to be easily obtainable, so that with the second sugar the total yield will not fall much short of 200 pounds of sugar per ton of clean cane. The cultivation of sorghum is much easier and less expensive, in the Southwest, than the cultivation of sugar cane or of sugar beets, the cost of sorghum cane being \$2 to \$2.50 per ton, while the cost of sugar beets reaches \$4 to \$5 per ton for the same percentage of sugar.

"And now sorghum sugar manufacture, having the diffusion process and the alcohol process, enters a new era, an era of success. It has now a business basis, instead of a theoretical basis."

AMERICAN FAT STOCK SHOW.

The premium list of the American Fat Stock Show is before us. The exhibition will be opened to the public on Wednesday, November 11, at 9 o'clock a. m., and will continue day and evening until Saturday, November 21, at 10 p. m. Live stock meetings to be held during the exhibition are as follows:

November 12, Thursday.—The American Clydesdale Association, at Grand Pacific hotel, at 2 o'clock p. m. Charles F. Mills, Secretary, Springfield, Ill. The American Essex Association, at the Sherman house,

at 7:30 o'clock p. m. Wm. M. Wiley, Secretary, New Augusta, Ind.

November 17, Tuesday.—The American Cleveland Bay Association, at the Sherman house, at 7 o'clock p. m. R. P. Stericker, Secretary, Springfield, Ill. The American Hereford Cattle Breeders' Association, at the Leland hotel, at 7:30 o'clock p. m. C. R. Thomas, Secretary, Independence, Mo. The American Sussex Association, at the Leland hotel, at 8 o'clock p. m. Overton Lea, Secretary, Nashville, Tenn. The National Swine Breeders' Association, at the Sherman house, at 2 o'clock p. m. Phil M. Springer, Secretary, Springfield, Ill.

November 18, Wednesday.—The American Shire Horse Association, at the Sherman house, at 7:30 o'clock p. m. Charles Burgess, Secretary, Wenona, Ill. The American Short-horn Breeders' Association, at the Grand Pacific hotel, at 8 o'clock p. m. J. H. Pickrell, Secretary, Chicago, Ill.

November 19, Thursday.—The convention of Holstein-Friesian breeders, at the Grand Pacific hotel, at 3 o'clock p. m. Thomas B. Wales, Secretary, Iowa City, Iowa. The American Aberdeen-Angus Breeders' Association, at the Leland hotel, at 7:30 o'clock p. m. Thos. McFarland, Secretary, Iowa City, Iowa. The American Hackney Stud Book Association, at the Sherman house, at 7 o'clock p. m. J. G. Truman, Secretary, Bushnell, Ill. The Victoria Swine Breeders' Association, at the Sherman house, at 7:30 o'clock p. m. Geo. F. Davis, Secretary, Dyer, Ind.

November 20, Friday.—The American Suffolk Horse Association, at the Grand Pacific hotel, at 7:30 o'clock p. m. A. R. Galbraith, Secretary, Janesville, Wis.

Rice County Fair.

One of our representatives, who was in attendance at the Rice county fair, held last week at Lyons, reports that the exhibition was a grand success. While there was a fine display of agricultural products the great attraction was that of a most magnificent display of fine stock. Among the worthy and successful exhibitors, he mentions the following:

J. M. Chattem, display of garden vegetables, took first premium. He had some very fine potatoes of the Early Ohio variety. Thomas Wood displayed some of the finest potatoes ever seen in this part of the State. Dr. Kerfoot carried away two first premiums, on squash and watermelon. J. L. Farney, first on oats.

C. E. Wagoner took first premium on Light Brahmas, Buff Cochins, Partridge Cochins, Rose-comb Langshans and Brown Leghorns. H. L. Thompson, first on Wyandottes.

Albert Wynn, President of the fair association—and for which place there could not have been made a better selection—had one of the finest displays of horse-flesh ever seen in that portion of the State. He took first on two-year-old graded Percheron, the best two-year-old on the ground, and second on two yearling graded Percheron colts. E. G. Suttle, first premiums on four-year-old English Shire, seven-eighths blood; colt six months old, and mare colt. The colt was the best on the ground. John J. Guethlin, first on colt six months and under twelve, and sweepstakes on sucking colt, of any age or breed, Aaron Bell, second on two-year-old Percheron colt, weighing 1,270 pounds. The Alligon Horse Breeders' Association, first on four-year-old French coach, weighing 1,650, a very fine animal purchased of Dunham. Also first on a cross between a French coach and a Hambletonian, a very fine horse in all of his points. J. J. LaFlower, first on Percheron stallion, graded Percheron, and English coach. Hebron Horse Company, first on Clyde stallion, a most beautiful black animal. W. W. Miller, first on his magnificent stallion, Woodfield No. 2192. This animal is one of the highest bred in southwestern Kansas, and is a fine individual and a great sire. One of his fillies, 16 hands high, shows a record of a 2:30 gait, and won the three-year-old race. Woodfield has taken first in every ring in which he has been shown. T. E. Nash, first on stallion, Chanel, sired by Champlain, by Lambert, by Ethan Allen, by Casteel, by Almont No. 33; second on another horse by Harry Floyd, by Junius by Dictator by Hambletonian 10. Jordan & Co., first on two-year-old Mixus, sired by Newmont by Bellmont, dam Nina, by Don Cossack.

Frank Lasley, first on Jersey cow.

Frank Truesdell, first on Jersey bull and second on Jersey cow. M. J. Chase, first on three-year-old Jersey bull. J. F. Caldwell, first on three-year-old Short-horn cow, yearling bulls, sucking calf, yearling calf, second on three-year-old cow, first on Poland-China boar over one year old, over six months, and under six months, and best sow under six months.

Live Stock at the World's Fair.

Chief Buchanan, of the World's Columbian Exposition Live Stock Department, has sent out about 3,000 copies of the live stock premium list to the various fair and breeders' associations of the country, and is receiving encouraging responses. Besides the larger premiums offered by the Exposition for a live stock exhibit, all the various breeders' associations are offering large prizes. As an evidence of the widespread interest taken in the live stock show, A. E. Mansell, of Shropshire, England, offers a prize of \$500 for the best American-bred Shropshire ram. The State of Illinois offers \$40,000 in premiums for live stock; the Clydesdale horse breeders offer \$5,000 extra prizes; the cattle associations offer extra prizes as follows: Galloway, \$3,000; Short-horn, \$6,000; Hereford, \$5,000; Jersey, \$10,000, and Holstein, \$10,000. The swine, sheep and dog breeders also offer extra money prizes. The money prizes to be paid for live stock will amount to \$250,000 or more, which, of course, includes the sum of \$150,000 voted by the Exposition company for premiums in that department. The Exposition buildings for the accommodation of live stock will cover thirty acres.

Publishers' Paragraphs.

The Farm, Field and Stockman, of Chicago, is offering 350 special premiums, consisting of articles and cash, valued at \$7,000, which will be distributed May 1, 1892, to the 350 persons making up the 350 largest clubs. They will send a circular describing the plan of the "Farmers' Progressive Reading Circles" for home education.

We call the attention of our readers to the advertisement in another column of Chas. P. Willard & Co., 3 Dominick St., Chicago, who manufacture a large variety of engines and boilers, and who request persons interested in engines to send for their handsome illustrated catalogue, which will be mailed free of charge to any one applying for it.

WORTH LOOKING AT.—"Turn to the press—its teeming sheets survey, big with the wonders of each passing day." Among these the eye will pause to look at an old familiar family need in new dress. It will charm the sight, comfort the weary and bring cheer and hope to the pain-stricken. The columns of this paper are graced by its reappearance. It is welcome, for what it promises to do, it does with alacrity, and proves its promise by an ample show of performance. The right thing, in the right place, at the right time, experience has proved it to be. Upon this it has won public confidence and esteem, for while St. Jacobs Oil, the great remedy for pain, thus makes its annual rounds and renews its pledges of prompt and permanent cure, its continual success is the guaranty that what it says is true and what it does is sure. Its best recommendation is its true reputation, upon which all may depend for cure and comfort.

In spite of the wonderful commercial and industrial progress of the United States, we are still to a large extent using the same soft, dusty, muddy country roads that served for our remote ancestors. No organization has done more to remedy this surprising state of things than the League of American Wheelmen; and its Secretary, Mr. Isaac B. Potter, of New York, has a word to say in the November Forum about the evil and its cure. He considers that the cost to the farmer, of carting his produce over the "roughened streak of soil" that serves us as a highway, is no small factor in the existing agricultural depression, and points out that the cost of maintaining proper public wagon roads, though great, is more than repaid to the community in the enhanced value of adjacent property alone. This position he supports by statistics. It is to be hoped that Mr. Potter and his co-workers will succeed in rousing our rural communities to the disgrace of a condition of things which makes us the laughing-stock of European travelers in this country.

Our First Page Illustration.

Every farmer or breeder who sets up an establishment for the improvement of our domestic animals is certainly a benefactor, and deserves all the encouragement possible, both from his fellow farmers and home farm journal. A breeder with representative animals of any pure breed of stock must necessarily expend considerable money and time before returns give him any returns on his investment.

The subject of our illustration this week is the Hazelhurst and Island stock farms of Kirkpatrick & Son, Connors, Wyandotte county, and Hoge, Leavenworth county, and is one of the new breeding firms of Kansas that are now well established for business, which they hope for on their merits. Messrs. Kirkpatrick & Son are breeders of Holstein-Friesian cattle and Poland-China swine, which they keep at the Island farm at Connors, and the Shropshire sheep, English Shire horses and Berkshire swine are kept at the Hazelhurst farm at Hoge, Kas.

Among their Holstein-Friesian cattle are Bright Promise, with a milk record 100 pounds per day; scores 96 points in the Advance Registry score standard. Dallas B. Whipple, of Cuba, New York, who brought out Pieterje 2d, and who owned her when she gained the world's championship that she still holds, says of Bright Promise, that he considers her a better cow than Pieterje 2d. She has shown in the Eastern fairs and was never beaten in her class. They had a chance to buy Empress Josephine at just half what they paid for Bright Promise. Then they have Belle Sitske, a five-year-old heifer, that has made 38 pounds 7 ounces of well-worked salted butter in seven days when she was giving 80 pounds of milk per day, in June, while in May she had given from 100 to as high as 110 pounds milk per day. This is the highest known record of any cow now living of her age, for seven days, (Parthenia being dead), and is only exceeded by 1 pound 3 ounces by one cow of any age. The bull, Chief of Maple Hill 66, has always been a prize-winner at the leading Western fairs.

The Shropshire flock is headed by the imported ram, Grand Delight, which that famous Illinois breeder, Mr. Stone, was commissioned to secure as the best in England.

The Berkshire swine are headed by the boar, Royal Champion, unsurpassed in his breeding, having been sired by Volunteer, he by the famous Longfellow, his dam by Duke of Monmouth. Royal Champion's dam was Silver Tips, by British Champion 2d, dam Sally Girl by Sovereign Duke, the greatest show boar of his day. Silver Tips, his dam, has won several State and district fair prizes.

Their Poland-China swine, like the other classes of stock, are richly bred and grand individuals. At the Inter-State Fair, at Kansas City, they had five head on exhibition, and took first on boar under one year, first on young herd, sweepstakes on boar any age, and also sweepstakes on sow any age.

Messrs. Kirkpatrick & Son have made a splendid start in the right direction with the various classes of stock which they handle, and deserve credit for their enterprise and merit the increasing business which they report.

The Old Reliable.

Go to Denver on the Fast Vestibuled Express of the Union Pacific and partake of the elegant meals served in the Pullman Dining Car running on this train.

Spokane is reached by the Union Pacific direct. It is the center of the Palouse country, one of the richest sections of Washington.

Cheyenne, the capital of Wyoming and the center of the cattle industry of the United States, is reached best by the Union Pacific.

Take the Union Pacific and its Oregon Short Line to Portland.

The Union Pacific is the only road running through the famous Alpine Tunnel, 11,596 feet above sea level.

Bear in mind, that the Union Pacific takes second-class passengers through on Fast Express trains.

Through Pullman Palace Sleepers between Denver and New Orleans via the Union Pacific only.

Round trip excursion and tourist tickets on sale to all points west and south.

For further information as to rates, time of trains, etc., apply to A. M. FULLER, City Ticket Agent, 525 Kansas Ave., Topeka, Kas.

Horticulture.

Joint Session of Horticulturists.

EDITOR KANSAS FARMER:—The joint meeting of the Douglas County Horticultural Society, with that of the Missouri Valley Society, was held as per program, at the residence of Mr. E. Taylor, at Edwardsville, on Saturday, October 17. The weather was perfect, the attendance large, and the exercises interesting and varied. In addition to the strong representations from the two societies, the local attendance was quite large, embracing nearly all the young people of the village.

The meeting was decorated with three kings—the strawberry king, the potato king, and the *Chronicle* king. The latter, however, was only king by name. There were also several Colonels, Captains and Majors in the meeting, both ex-Federals and ex-Confederates, but of course no reference was made to the "late unpleasantness."

Col. Evans presided and Maj. Holsinger served as Secretary. After a sumptuous dinner served by the ladies and enjoyed by more than a hundred persons, the meeting opened with an excellent paper by Mr. Taylor on the history and progress of horticulture, showing its great importance to mankind through all the ages of the world's history. Fruits have always had their uses, and flowers their charms in all civilized countries. The higher the civilization the more will fruits and flowers be esteemed and cultivated. Horticulture promotes health, intelligence, and consequently happiness.

The subject of spraying fruit trees with arsenic poisons for the purpose of destroying insects was discussed at length. Maj. Pratt doubted its expediency. He believed we destroyed by this method as many friendly insects as injurious, besides the danger of injuring the fruit, when sprayed too late. It was stated that a carload of grapes from New York State, which had been sprayed with London purple, was lately condemned and destroyed as being unsafe to be eaten.

B. F. Smith was called upon to give his experience with pear culture. He said, in substance, that every farmer ought to have at least a few pear trees growing, and the more the better. He recommended a succession as follows: The Tyson first early, then following Clapp's Favorite, Bartlett, Seckel, Sheldon and Buerre 'd Anjou. The Duchess he considered too coarse, and the Winter Nells too small and inferior. With regard to blights, the Bartlett suffers badly, but has the redeeming habit, which no other variety seems to have, of sending out new sprouts which soon go into bearing.

It may not be out of place here to speak of Mr. Taylor's farm and his methods. The farm consists of 400 acres of rich bottom land. This year he raised 240 acres of Irish potatoes, yielding about 20,000 bushels. As soon as they were dug, which was about the first of July, the land was immediately planted with corn which yielded twenty-five bushels per acre. This corn, stalks and all, is cut up into small pieces by steam power and elevated into a 500-ton silo. With this ensilage he is feeding 100 head of steers. The cattle are chained to their mangers, with both feed and water trough in front. An abundance of feed and water is kept before them from morning till night, and the steers are kept in their stalls till they are ready for market. In this way they put on twice the amount of fat in a given time that they would if fed out of doors and allowed to run around.

By harvesting two crops the same year Mr. Taylor gets a double amount of products, and by his manner of feeding the corn crop, he obtains the maximum amount of nutriment it possesses. All farmers, however, cannot follow his plan. His land is extra good and he has plenty of capital to work it with.

At half past 4 o'clock p. m. the meeting adjourned for one year, and the fruit-growers boarded the trains running both east and west for their respective homes.

SAMUEL REYNOLDS.

Lawrence, Kas.

A Cheap Flower Pit.

I kept my tender roses last winter by having a frame made of planks, writes a correspondent in *Popular Gardening*. This frame was set on the ground and the earth inside taken out to a depth of one to one and one-half feet, and this earth

banked up the frame. Then I filled in first, horse manure, then muck and sand, and planted my roses, covering them with glass, and in cold weather with a piece of carpet. The last of the winter I put more manure on the outside, and my roses kept green all winter, and in the early spring sent out fine strong shoots, which have borne some of the finest roses I ever saw. I shall try other plants the same way this winter. This would hardly be called a pit, but has been a very inexpensive yet successful way to keep roses at least.

Horticultural Notes.

The Florida Horticultural Society has asked for three acres in which to show an orange grove and make a fruit display at the World's Fair.

Dahlia and other fleshy-rooted plants stored in cellars are apt to shrivel up if exposed to dry air. If necessary, place them in a box and cover with sand or dry earth to exclude the air.

Whenever a tree is transplanted, and the roots are short and apparently insufficient, cut back the top and the tree (or vine) will thrive much better than if the branches should remain. The roots are more important than the portion above ground.

Spinach is a winter plant, and provides early greens. The seed may be sown as late as November if the soil be warm. The ground should be rich and the seed sown rather thickly. A covering of leaves or straw during the winter would prove beneficial.

The American Pomological Society, at its recent annual meeting in Washington, decided to make an exhibit at the World's Fair classified by State and county associations, and also by individuals; and it appointed a committee of six to confer with the Horticultural Department, and to perfect arrangements.

Hold the tree upright while the hole is being filled in, and shake it, in order that the soil may get well worked in between the roots. When the tree is properly placed, fill up the rest of the hole, and tread it well in, not by pressing the soil close to the stem, but by treading on it all round where the points of the roots are.

Ohio Breeders' Association.

Mr. W. B. Fasig, of Cleveland, President above Association, writes: "I can say candidly, Quinn's Ointment is the most valuable remedy in my opinion now before the public." For Cures, Splints, Spavins, Windpuffs or Bunches, it has no equal. Trial box 25 cents, silver or stamps. Regular size \$1.50 delivered. Address W. B. Eddy & Co., Whitehall, N. Y.

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"Blood will tell." Good crops can not be grown with poor strains of seed. For sixteen years Tillinghast's Puget Sound Cabbage, Cauliflower and Celery Seeds have been gaining in popularity. The most extensive growers all over the Union now consider them the best in the world. A catalogue giving full particulars regarding them will be sent free to any one interested. When writing for it enclose 20 cents in silver or postage stamps and we will also send "How to Grow CABBAGE AND CELERY," a book worth its weight in gold to any grower who has never read it. Address

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The Way to Go.

You have seen California frequently mentioned in newspapers and magazines. Perhaps a friend has been there, and writes enthusiastic letters back home about the climate and the fruits. It makes you anxious to see the country for yourself.

The time to go is in the Fall and Winter. Then work here is less pressing and California climate is most pleasing. The way to go is via Santa Fe Route, on one of that line's popular, personally conducted parties, leaving Chicago every Saturday evening, and leaving Kansas City every Sunday morning.

Special agents and porters in attendance. Pullman tourist sleepers are used, furnished with bedding, mattresses, toilet articles, etc. Second class tickets honored. Write to G. T. Nicholson, G. P. & T. A., Santa Fe Route, Topeka, Kas., for copy of folder describing these excursions.

Topeka Shorthand Institute, 521 and 523 Quincy St., Topeka, Kas.

For a disordered Liver try BEECHAM'S PILLS.

VICTIMS OF CATARRH

Are permanently cured by the use of Ayer's Sarsaparilla, through its renovating effect on the blood. Give it a trial.

"I suffered for years from chronic catarrh which destroyed my appetite and undermined my general health. None of the remedies I took afforded me any relief, until I commenced using Ayer's Sarsaparilla. I began to take this medicine last spring, and am now entirely free from this disgusting disease."—Susan L. W. Cook, 909 Albany st., Roxbury, Mass.

"My son—now fifteen years of age—was troubled for a long time with catarrh, in its worst form, through the effects of which his blood became poisoned. We tried various medicines and almost despaired of ever finding a remedy; but about a year ago he began using Ayer's Sarsaparilla, has taken seven bottles of it, and is now entirely well."—D. P. Kerr, Big Spring, Ohio.

Ayer's Sarsaparilla,

Made in Lowell, Mass. Sold by all Druggists. \$1; six bottles, \$5. Worth \$5 a bottle.

The Poultry Yard.

Only \$9,000 Appropriated.

It may not be generally known that the Secretary or chief clerk of the World's Fair Commissioners is paid nearly \$30,000 for his services, yet it is true, and also that the solicitors for the fair appointed in each State are paid \$5 per day for their services. In view of this the *Texas Farmer* and *Stockman* says that it does seem that \$30,000 for three years service would be competency for the average citizen for a life time, and that the streams of gold constantly pouring into the laps of the workers of this concern, that Chicago ought to be satisfied and fulfill the promises she made the United States government, that if an appropriation of \$1,000,000 was given the fair and it located at Chicago, that city would then carry it through to the finish. But now she wants the government to loan her \$5,000,000. And for what? Not any more dollars for the poultry department. Only \$9,000 has been appropriated to this department, representing one of the most valuable industries of the world. If St. Louis or New York had gotten the fair located at either place, would they now be begging the government for more money to carry out their agreement in regard to the fair and only appropriate \$9,000 to the poultry department? But this only goes to show how little the commissioners know about an industry that is the greatest in the civilized world. There is beyond a doubt no other business so extensively carried on and so little talked of as the poultry business, and is no doubt looked upon by the managers of the proposed World's Fair as a small affair, and it would be next to an impossibility to make them understand and comprehend that it has grown to be an industry for unparalleled magnitude.

Give us the value of one year of all the eggs and poultry consumed in Europe and the United States and we will build twenty world fair buildings and pay twenty chief clerks, and have millions left to the credit of the old hen.

The Poultry Association of Kansas must have five thousand (5,000) eggs for the various incubators that will be on exhibition at their coming poultry show. The eggs will be wanted not later than November 20. Those who can furnish eggs should write to J. P. Lucas, Secretary.



Some
Children
Growing
Too Fast

become listless, fretful, without energy, thin and weak. But you can fortify them and build them up, by the use of

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OF PURE COD LIVER OIL AND
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Of Lime and Soda.

They will take it readily, for it is almost as palatable as milk. And it should be remembered that AS A PREVENTIVE OR CURE OF COUGHS OR COLDS, IN BOTH THE OLD AND YOUNG, IT IS UNEQUALLED. Avoid substitutions offered.

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What They Say of Steketee's Hog Cholera Cure:

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EVAN, Ill.—I will say in regard to your Hog Cholera Cure, that my hogs look better since using your powders. DANIEL BAKER.

MELLETTE, S. D.—I am well pleased with the results of your Hog Cholera Cure. A. D. BELL.

GALVESTON, Wis.—I want a package of your Dry Bitters, if they are as good as your Hog Cholera Cure is for worms. Your Powders do kill worms. G. M. KLIN.

These Powders are 50 cents per package at the drug stores, or 60 cents by mail; three for \$1.50, express paid. P. S.—Steketee's Hog Cholera Cure is the same thing as used for Pin-Worms in Horses. Address

G. G. STEKETEE,
Grand Rapids, Mich.
Mention KANSAS FARMER.

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In the Dairy.

Dairy Statistics.

There are \$2,000,500,000 invested in the dairy business of the country, says the *American Analyst*.

That amount is almost double the money invested in banking and commercial industries. It is estimated that it requires 15,000,000 cows to supply the demand for milk and its products in the United States. To feed these cows 60,000,000 acres of land are under cultivation. The agricultural and dairy machine implements are worth \$200,000,000. The men employed in the business number 750,000, and the horses are over 1,000,000. There are over 12,000,000 horses, all told. The cows and horses annually consume 30,000,000 tons of hay and nearly 90,000,000 bushels of corn meal, about the same amount of oat meal, 275,000,000 bushels of oats, 2,000,000 bushels of bran and 30,000,000 bushels of corn, to say nothing of the brewery grains, sprouts and other questionable feed of various kinds that are used to a great extent. It costs \$450,000,000 to feed these horses and cows. The average price paid to the laborers necessary in the dairy business is probably \$20 per month, amounting to \$180,000,000 a year. The average cow yields about 450 gallons of milk a year, which gives a total product of 6,750,000,000. Twelve cents a gallon is a fair price to estimate the value of the milk at, a total return to the dairy farmers of \$810,000,000, if they sold all the milk as milk. But 5 per cent. of their milk is made into cheese and butter. It takes twenty-seven pounds of milk to make one pound of butter and ten pounds to make one pound of cheese. There is the same amount of albuminoids in eight and one-half pounds of milk as there is in one pound of beef. A fat steer furnishes 50 per cent. of boneless beef, but it would require 24,000,000 steers, weighing 1,500 pounds each, to produce the same amount of nutrition as the annual milk product does.

Warm Water in Winter.

Prof. Roberts, of Cornell University, claims that warm water at a very low expense saved him 14 per cent. of the food fed to his dairy cow. John Boyd, of Chicago, tells us that it increased his cow's milk flow 25 per cent. to warm her water up to blood heat. Prof. Shelton, of the State Agricultural college says that it saves 12 per cent. of the food to warm the water for his cows. H. C. Adams, Superintendent Wisconsin Institute, says that in his experience, it has increased his flow at least 25 per cent. He further says a cow will not drink all she needs when the water is extremely cold, and she will suffer in her digestive processes because she doesn't do it. The first winter he gave his cows warm water they shed their coats along in February, and came out in May as sleek and smooth and looked as nicely as they ordinarily did before in the latter part of June. The large quantities of water which they drank seemed to wash out all the channels of their circulation, and keep them healthy and vigorous and thrifty.

Bitter Cream.

The New York Dairy Commissioner, says that when milk or cream is held too long, although it may be in a cold temperature, in which the ordinary acidity may not be developed, a bitter taste is often developed which is imparted in butter and destroys its value. It is the opinion of our experts that this bitterness is another form of putrefactive ferment, which is peculiar to a cold temperature, and not active or marked as the acidulous ferment, but more insidious and sure to manifest itself more or less rankly, according to the conditions. The remedy is, never to hold the milk for the cream to rise longer than twenty-four hours, and the cream not longer than thirty-six hours. Under specially favorable conditions and surroundings the time may possibly be extended. It is not, however, a safe rule to insure sweet and good butter; the earlier churning and skimming are recommended. If the conditions for butter-making will not admit of these safe rules being applied, the conditions should be made to conform to them.

Two cows under certain care and feed have made phenomenal yields in butter. One, Pauline Paul, of the Holstein-Friesian breed, has scored a record of 1,153

pounds and 15½ ounces in one year, and another, Blisson's Belle, of the Jersey breed, 1,028 pounds and 15½ ounces for the same period. It is now proposed to pit these cows against each other for a year with a view to determining which breed is best. Could folly go any further?

To give a delicious flavor to roast lamb, boil a tablespoonful of cloves and two or three sticks of cinnamon in water, and then use the water to baste the lamb with.

As a family medicine, Ayer's Pills excel all others. They are suited to every age and, being sugar-coated, are easy to take. Though searching and thorough in effect, they are mild and pleasant in action, and their use is attended with no injurious results.

A correspondent of the *Home Maker* writes: If you have never eaten little cakes made from the following recipe, put off that pleasure no longer: One cup of butter, two cups of brown sugar, four eggs, one cup of chopped raisins, one teaspoonful of soda, one heaping teaspoonful of cinnamon, one teaspoon even full of cloves and of allspice (one of each of course), about half a nutmeg grated. Flour to roll out smoothly. Cut with cutter.

The warm night wrappers now made of soft wool stockinette are especially welcome in traveling on the ocean or across the country in winter. The wrappers made of blanketing are also useful, and in cold nights, when one is uncertain of heat, may be worn over an ordinary cotton gown with comfort. They are also a boon to an invalid. The blankets to make these wrappers are to be found in a great variety of plain colors with striped borders, and in stripes and plaids. The silvery gray blankets, with pale blue borders are especially dainty and pretty.

"German Syrup"

Here is something from Mr. Frank A. Hale, proprietor of the De Witt House, Lewiston, and the Tontine Hotel, Brunswick, Me. Hotel men meet the world as it comes and goes, and are not slow in sizing people and things up for what they are worth. He says that he has lost a father and several brothers and sisters from Pulmonary Consumption, and is himself frequently troubled with colds, and he often coughs enough to make him sick at his stomach. Whenever he has taken a cold of this kind he uses Boschee's German Syrup, and it cures him every time. Here is a man who knows the full danger of lung troubles, and would therefore be most particular as to the medicine he used. What is his opinion? Listen! "I use nothing but Boschee's German Syrup, and have advised, I presume, more than a hundred different persons to take it. They agree with me that it is the best cough syrup in the market."

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FOR A CLUB OF 10 ten cents weeks' trials, as above, a Cloth-bound Dictionary, 30,000 words; or Cooper's Leatherstocking Tales complete, five of the most charming stories ever written, will be sent free and postpaid.
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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. Sometimes parties write us requesting a reply by mail, and then it ceases to be a public benefit. Such requests must be accompanied by a fee of one dollar. In order to receive a prompt reply, all letters for this department should be addressed direct to our Veterinary Editor, DR. S. C. ORR, Manhattan, Kas.

BUNCH ON LEG.—I have a mare that got her leg cut on a mowing scythe the last August. The cut was about half way between the knee and ankle and healed up all right, but left a knot. She is not much lame, but rests the leg as soon as she stops, when working. S. G. C. Gove, Kas.

Answer.—Make an ointment of 1 drachm of biniodide of mercury and 6 drachms of lard, and apply a small quantity on and around the enlargement, rubbing in for ten minutes, then tie her so she cannot get her nose to it for twenty-four hours, when you can rub a little clean lard on it and turn her loose. Do not work the mare while the leg is sore from the blister. Repeat the blister in one month if the mare still favors the leg.

BARBED-WIRE CUT.—I have a horse that was cut on barbed wire on the front and outside of the gambrel joint. Although cut to the bone in front, he could use his leg the first week, but he lay down on it one night and we had to help him up. The leg then swelled up and broke. I have been poulticing with warm flaxseed for the last week and the swelling has gone down and the sores are healing, but he will not use his leg. Will you kindly tell me through the KANSAS FARMER what to do for him? J. H. Gove City, Kas.

Answer.—The extreme lameness is very likely due to an inflamed condition of all or a part of the inner structures of the joint, and if the swelling has gone down and the sore is in a healthy condition, the healing process should be continued by omitting the poultice and applying, twice a day, a wash made of acetate of lead 1 ounce, sulphate of zinc 6 drachms, carbolic acid 2 drachms and rain water 1 quart. Apply to the parts of the joint where the skin is unbroken, or is already healed, a blister composed of one part of biniodide of mercury to six parts of lard, rubbing it in well, then tying the horse so he cannot get his nose to it for twenty-four hours, then rub on a little lard or oil. If he is lame after the sore is all healed, apply a blister over the entire joint.

Big-Jaw.—Will you kindly publish in your next issue, the best mode of treatment for big-jaw in cattle, both in its incipient and the advanced stage? C. F. Raton, N. M.

Answer.—Big-jaw—*Actinomyces*—in cattle is due to the fungus *Actinomyces bovis*, which in some manner adheres to the food and only enters the animal tissues through an abrasion of the skin or mucus membrane. It is considered by many of our best authorities to render the meat unfit for food, while a few claim that the affection is only local. However this may be, all animals found to be so affected are wisely condemned by the inspectors at our cattle markets. The best method of treatment within our own personal knowledge is that recommended by Dr. H. J. Detmers, of Columbus, Ohio, which is as follows: In the incipient stage, when the tumor is where there is no danger of wounding important blood vessels, complete excision with the knife is the best treatment. But if this cannot be done, then make the following mixture: Arsenious acid, ½ ounce; caustic potash (in sticks), 2 drachms; powdered gum arabic, ½ ounce; rain water, 1 ounce; mix all well together, put it in a wide-mouthed bottle and label poison. Now open the abscess, dip several small pieces of cotton into the mixture, and with a stick push them to the bottom of the opening and then plug it up with dry cotton. In a few days the parts will be greatly swollen, then the swelling will gradually subside, and in two or three months the part will drop out and the wound will have healed behind it. If the caustic has reached all the fungi

the cure will be complete, but if a single parasite remains the disease will break out again. In the advanced stage, where the bone is greatly affected, it is incurable.

A PECULIAR CASE.—I have an eight or nine-year-old mare that raised a colt at three years old, and one each succeeding year until last year, when she failed to come in heat. Last spring she came in and we bred her, but do not think she is in foal. Two months ago she began to manifest symptoms of uneasiness, by shaking her head, and would rub her neck and tail until she has lost nearly all the long hair from both, and the hair now seems to be coming in white. She has lost her appetite and is getting thin. She seems, also, to be losing her mind, for she was so gentle that the children could drive her, but now she kicks and bucks in the harness so that she is not safe. She is weak and nervous, and continually shakes her head and withers while being harnessed. M. K. Delphos, Kas.

Answer.—Your case is certainly a peculiar one, yet we think that an examination by a qualified veterinarian might discover the cause. Examine both the poll and the withers for a slight swelling. Examine under the mane and at the root of the tail for an eruption of the skin, and if you find anything new report to us again. In the meantime feed the mare on oats and bran mash and let her run idle for a week or two. Also give, at once, as a drench, 1 ounce of Barbadoes aloes dissolved in 1 pint of warm water, and repeat it again in one week. Give in the feed, three times a day, a heaping tablespoonful of the following powder: Sulphur, 1 pound; nitrate of potash, 4 ounces; powdered asafoetida, 6 ounces; mix. Wash the affected parts about the mane and tail once a day with warm water and castile soap, and rub in some of the following ointment: Lard, 4 ounces; sulphur, 1 ounce; carbolic acid, 2 drachms; mix. Do not let the mare get wet.

MARKET REPORTS.

LIVE STOCK MARKETS.

Kansas City.

November 2, 1891.
CATTLE—Receipts 8,228. Supply light and good cattle scarce, but a slow, weak market. Shipping steers, \$3 30a4 00; corn-fed Colorado, \$3 40a4 00; corn-fed Texas, \$3 30; cows, \$1 25a2 45; bulls, \$1 55a2 00; Texas steers, \$2 05a2 60; Texas cows, \$1 20a1 90; Colorado feeders, \$2 40a2 75; Western steers, \$2 25a2 75; stockers and feeders, \$2 40a3 15.
HOGS—Receipts 5,066. A slow and lower market was had. Range of packers' hogs, \$3 50a3 85; bulk of sales, \$3 60a3 85.
SHEEP—Receipts 1,095. Market a little weak, but at the same time there was a fair demand for all good killing sheep. Arizonas, \$3 75; Colorados, \$3 90.
HORSES—5 to 7 years: Draft, extra, \$140a175; good, \$110a135. Saddlers, \$125a150. Mares, extra, \$125a145; good, \$70a90. Drivers, extra, \$140a200; good, \$75a120. Streeters, extra, \$100a110; good, \$70a95.
MULES—4 to 7 years: 14 hands, \$60a75; 14½ hands, \$70a85; 16 hands, \$110a120; 15½ hands, medium, \$105a125; 16½ hands, extra, \$130a150.

Chicago.

November 2, 1891.
CATTLE—Receipts 19,000. Market steady. Good to choice natives, \$5 75a6 40; others, \$3 50a5 20; Texans, \$2 25a2 65; stockers, \$2 25a3 25; rangiers, \$3 00a4 40; native cows, \$2 75.
HOGS—Receipts 36,000. Market lower. Rough and common, \$3 60a3 75; mixed and packers, \$3 80a3 90; prime heavy and butcher weights, \$3 95a4 10; light, \$3 45a3 90.
SHEEP—Receipts 6,000. Market lower. Native ewes, \$3 50a4 35; mixed, \$4 40a4 60; wethers, \$4 50a4 70; Texans, \$3 75; lambs, \$4 00a5 00.

St. Louis.

November 2, 1891.
CATTLE—Receipts 2,100. Market steady. Fair to good native steers, \$2 70a5 00; Texas and Indian steers, \$2 20a3 35; do. cows and canners, \$1 10a2 25.
HOGS—Receipts 2,500. Market lower. Fair to fancy heavy, \$3 80a4 00; mixed grades, \$3 20a3 90; light, fair to choice, \$3 60a3 80.
SHEEP—Receipts 2,300. Market steady. Fair to good, \$2 40a3 60.

GRAIN AND PRODUCE MARKETS.

Kansas City.

November 2, 1891.
WHEAT—Receipts 158,000 bushels. No. 2 hard, 81c; No. 3 hard, 77a78c; No. 4 hard, 70a72c; No. 2 red, 86c; No. 3 red, 81a82c; No. 4 red, 71a75c.
CORN—Receipts 37,000 bushels. No. 2 mixed, 45c; No. 3 mixed, 39c; No. 4 mixed, 36c; No. 2 white, mixed, 48c.
OATS—Receipts 71,000 bushels. No. 2 mixed, 26¼c; No. 3 mixed, 25¼c; No. 4 mixed, 24¼c; No. 2 white mixed, 27c; No. 2 red, 27¼c.
RYE—Receipts 17,000 bushels. No. 2, 82c; No. 3, 76a77c.
CASTOR BEANS—We quote crushing, in car lots, at \$1 75 per bushel upon the basis of pure, and small lots 10c per bushel less.
FLAXSEED—We quote at 82c per bushel on the basis of pure.
HAY—Receipts for past 48 hours 150 tons. We quote: New prairie, fancy, \$6 50; good to choice, \$5 50a6 00; prime, \$5 00; common, \$4 00. Timothy, fancy, \$9 00; choice, \$8 50.

Chicago.

November 2, 1891.
WHEAT—Receipts 267,000 bushels. No. 2 spring, 92¼c; No. 3 spring, 86a88c; No. 2 red, 94.

CORN—Receipts 156,000 bushels. No. 2, 54¼c. OATS—Receipts 273,000 bushels. No. 2, 30¼c; No. 2 white, 31¼a32c; No. 3 white, 30¼a31c.
St. Louis. November 2, 1891.
WHEAT—Receipts 251,000 bushels. No. 2 red, cash, 92¼a92½c.
CORN—Receipts 57,000 bushels. No. 2 cash, 48¼a50c.
OATS—Receipts 109,000 bushels. No. 2 cash, 28¼a28½c.
HAY—Prairie, \$8 00a9 00; prime timothy, \$9 50a12 00.

WOOL MARKETS.

St. Louis.

October 31, 1891.
 Quite a fair business done from first hands, but trade was far from being active. Market quiet throughout, though steady at the slight decline established last week. Texas fall clip sold to greatest extent.
 Missouri and Illinois: Medium, 22a23¼c; lamb, 21a22c; coarse, 18a19c; cottoned, 16a17c; light fine, 20a21c; heavy fine, 16a17c; black and burry, 3a5c less; hard burry, 13a15c.

Chicago.

October 30, 1891.
 The market for the week ending October 28 has been steady and quiet.
 Kansas and Nebraska wools move steadily at from 14a16c for the heavy fine, and 18a20c for the light fine, 17a18c for the fine medium, with the lighter wools of this grade selling at 19a21c; medium is selling at 20a22c.

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Read the matter contained in this space last month and took its advice. He insured his property in the Kansas Farmers' Fire Insurance Company, and now sleeps well and soundly, knowing that he is protected against loss by fire, lightning, tornadoes, cyclones and wind storms. He paid cash for his policy, but, if you cannot do so, our agent will accommodate you by giving you such time as you need. Don't be a clam! Sooner or later you will get roasted. Keep your money at home. Patronize the only home company, the
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THE STRAY LIST.

FOR WEEK ENDING OCTOBER 21, 1891.

Cherokee county—J. C. Atkinson, clerk.
 MARE—Taken up by W. C. Walton, one bay mare, 16 hands high, 15 years old, branded R on left shoulder, blind in right eye; valued at \$15.

FOR WEEK ENDING OCTOBER 28, 1891

Cowley county—Salem Fouts, clerk.
 HORSE—Taken up by C. H. Glass, in Grant tp., P. O. Otto, one black horse, 14 hands high, white strip in face, harness marks on back and shoulder, right front foot burnt with rope—very sore, brand similar to R on left hip, PB and X on left shoulder; valued at \$10.

Linn county—H. A. Strong, clerk.
 STEER—Taken up by William H. Wolf, October 6, 1891, in Blue Mound tp., one roan steer, 1 year old past, smooth crop off right ear, and two slits in same valued at \$12.

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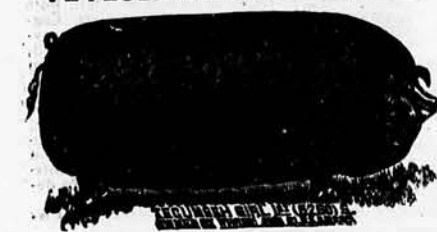
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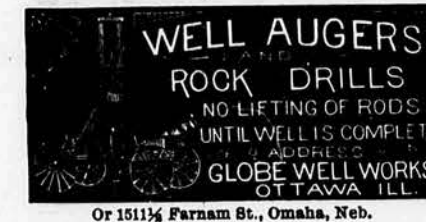
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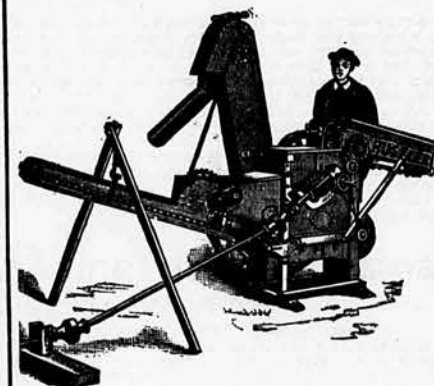
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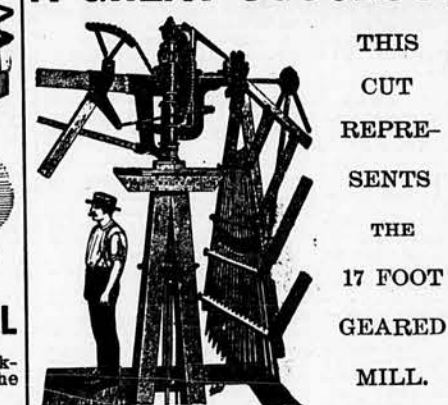
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(Continued from page 1.)

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LIVE STOCK AND CITY AUCTIONEER.—Capt. A. J. Hunsate, corner Sixth and Jackson streets, Topeka. Has forty years experience, and will make public sales anywhere in Kansas. Call at office or write.

TWO-CENT COLUMN.

"For Sale," "Wanted," "For Exchange," and small advertisements for short time, will be charged two cents per word for each insertion. Initials or a number counted as one word. Cash with the order.

Special.—All orders received for this column from subscribers, for a limited time, will be accepted at one-half the above rates—cash with the order. It will pay you! Try it!

FOR SALE CHEAP.—Twenty Holstein cows and nine calves. No better breeding, no better milkers. Also fourteen choice-bred Short-horn cows and heifers. All very cheap. L. L. Sells, Lincoln, Neb.

ROSE LAWN FRUIT FARM.—Forty varieties strawberries, both new and old, raspberries, blackberries, grapes, etc., at lowest prices. Dixon & Son, Netawaka, Jackson Co., Kas.

"THE FARMER'S SIDE"—Senator Peffer's new book, is just out. All farmers, business men, and every one interested in present financial and political conditions should read it. It is published by D. Appleton & Co., New York city, is neatly bound in cloth, contains 275 pages of neatly-printed matter, and the price is one dollar (\$1). Send your orders to the KANSAS FARMER Co., Topeka, Kas.

\$7 PER HUNDRED.—For first-class apple trees, at The Seneca Nursery. No agents! No commission! Buy direct from the nursery at wholesale prices. I grow my own stock. Have everything you want in apple, pear, peach, plum, cherry, apricot and ornamental trees. I have millions of strawberry plants, raspberries, blackberries, gooseberries, currants, grapes, roses and shrubs, forest trees and hedge plants. Five thousand budded peach trees, best early varieties. Good facilities to ship north, south, east and west. Send for free catalogue. S. J. Baldwin, Seneca, Kas.

FOR SALE CHEAP.—Sixty cows, thirty calves, thirty yearling heifers, nine two-year-old steers. Address Box 23, Protection, Kas.

FOR SALE.—A handsome two-year-old Cleveland Bay stallion, blood-bay color, 16½ hands high, superior bone and muscle, fine style and disposition, well broken; took second premium in two-year-old county trot this fall. For further particulars address Box O, Greeley, Kas.

1400 HEAD OF NEW MEXICO STEERS for sale, six miles east of Lindsay. One to 5 years old. Address J. S. Elzea, Lindsay, Kas.

143 ACRE FARM.—With timber, one mile from flourishing city, with small residence in same, all unincumbered—to exchange for larger farm with small incumbrance. Give full description in answering. No. 2 Market street, Emporia, Kas.

FOR SALE.—For cash or on time, two imported English Shire stallions, 4 years old. H. A. Thomas, Scranton, Kas.

PUBLIC SALE—NOVEMBER 10, 1891.—At J. W. Granger's farm, one and a half miles east of Neely, Leavenworth Co., Kas., thoroughbred Short-horn and Hereford bulls, cows and heifers, grade cows and calves and two and three-year-old steers, horses, Cotswold and Shropshire ewes and rams, hogs, etc. All sums of \$10, cash; over \$10, nine months time will be given on notes with approved security at 7 per cent. interest if paid when due. Geo. B. Bell.

FOR SALE.—The softest snap in Kansas. Good improved 160 acres, four miles from the big manufacturing sugar works. Best crops in Kansas. Part on time if desired. B. N. Turk, Medicine Lodge, Kas.

SEEDS

J. G. PEPPARD,

MILLET A SPECIALTY.
Red, White, Alfalfa & Alsike Clovers.
Timothy, Blue Grass, Orchard Grass, Red Top,
Onion Seed, Tree Seeds, Cane Seed, Etc.

1400 UNION AVENUE,
Kansas City, Mo.

SEEDS

THE ALBERT DICKINSON CO.,

Dealers in Timothy, Clover, Flax, Hungarian, Millet, Red Top

Blue Grass, Lawn Grass, Orchard Grass, Bird Seeds, &c.

115, 117 & 119 Kinzie St.

POP CORN.

Warehouse—104, 106, 108 & 110 Michigan St. OFFICE, 115 KINZIE ST.

1000 to 1014 Clark St. CHICAGO, ILL.

Public Sale of Pure-Bred Clydesdales!

WEDNESDAY, NOVEMBER 25, 1891,

I will hold my eighth annual sale of pure-bred and registered Clydesdale horses—about THIRTY-FIVE HEAD. Twenty-two mares and fillies, coming 2 years old and upward; eleven stallions, coming 2 and 3 years old. Highly-bred mares in foal to the great horses, Cedric, Macara and Prince of Newton.

Write for catalogues giving pedigrees and terms of sale.
The preceding day I will sell THIRTY-FIVE HEAD OF GRADE CLYDE Mares and Fillies.

ROBERT HOLLOWAY, ALEXIS, ILL.

The Kansas City Stock Yards.

Are by far the most commodious and best appointed in the Missouri Valley, with ample capacity for feeding, weighing and shipping Cattle, Hogs, Sheep, Horses and Mules. They are planned throughout, no yards are better watered, and in none is there a better system of drainage. The fact that higher prices are realized here than in the East is due to the location at these yards of eight packing houses, with an aggregate daily capacity of 3,600 cattle and 37,500 hogs, and the regular attendance of sharp, competitive buyers for the packing houses of Omaha, Chicago, St. Louis, Indianapolis, Cincinnati, New York and Boston.

All the sixteen roads running into Kansas City have direct connection with the yards, affording the best accommodation for stock coming from the great grazing grounds of all the Western States and Territories and also for stock destined for Eastern markets.

The business of the yards is done systematically and with the utmost promptness, so there is no delay and no clashing, and stockmen have found here, and will continue to find, that they get all their stock in worth with the least possible delay.

Receipts for 1890 were 1,472,229 cattle, 76,568 calves, 2,865,171 hogs, 535,869 sheep, 37,118 horses and mules.

Total number of cars, 103,160.

Kansas City Stock Yards Co. Horse and Mule Market.

CAPT. W. S. TOUGH, Manager.

This company has established in connection with the yards an extensive Horse and Mule Market known as the KANSAS CITY STOCK YARDS HORSE AND MULE MARKET. Have always on hand a large stock of all grades of Horses and Mules, which are bought and sold on commission or in carload lots. Regular trade auction sales every Wednesday and Saturday.

In connection with the Sales Market are large feed stables and pens, where all stock will receive the best of care. Special attention given to receiving and forwarding. The facilities for handling this kind of stock are unsurpassed at any stable in this country. Consignments are solicited with the guarantee that prompt settlements will be made when stock is sold.

C. F. MORSE,

General Manager.

E. E. RICHARDSON,

Secretary and Treasurer.

H. P. CHILD,

Superintendent.

CONSIGN YOUR CATTLE, HOGS & SHEEP TO Larimer, Smith & Bridgeford,

LIVE STOCK COMMISSION MERCHANTS,

Kansas City Stock Yards, Kansas City, Kansas.

Highest market prices realized and satisfaction guaranteed. Market reports furnished free to ship pers and feeders. Correspondence solicited. Reference:—The National Bank of Commerce, Kansas City.

TWO-CENT COLUMN--(Continued.)

FOR SALE.—I will sell for the next thirty days thoroughbred Poland-China pigs at greatly reduced prices. M. C. Vansell, Muscotah, Kas.

MODELS.—For patents and experimental machinery. Also brass castings. Joseph Gerdorf & Sons, 1012 Kansas Ave., Topeka, Kas.

SHEEP FOR SALE.—One hundred two-year-old half-blood Southdown wethers. Three hundred high-grade Merino ewes. T. O. Fox, Ellsworth, Kas.

PERSONS.—Against home mortgage foreclosure has been instituted should write to W. F. Rightmire, Topeka, Kas., if they wish to save their homes.

SHEEP AND POULTRY FOR SALE.—A few choice Cotswold buck lambs at low prices. Also prize-winning poultry at \$1.50 to \$3 each. Enclose stamp for reply. Address Sunnyside Poultry Yards, Newton, Kas.

PROMPT MONEY AND LOWEST RATES ON Eastern Kansas farms. Write us before renewing or making new loan elsewhere. T. E. Bowman & Co., 116 West Sixth St., Topeka, Kas.

FOR BEST AND CHEAPEST INCUBATORS and Brooders, address for circular, Geo. B. Singer, Cardington, Ohio.

FOR SALE.—Quarter section of fine grass land near Meriden, Kas. Dr. Roby, Topeka, Kas.

MAPLE GROVE HERD.—Owned by Wm. Plummer, Osage City, Kas., breeder of first-class Poland-Chinas and pure Felch Light Brahmas at farmers' prices for ninety days.

BLACK LOCUSTS and other forest tree seedlings, and a general nursery stock. B. P. Hanan, Arlington, Reno Co., Kas.

BERKSHIRES.—Bargains in two mature boars. Can't use them longer. H. B. Cowles, Topeka, Kas.

WANTED.—Kansas butter and other farm products to retail from wagon in Pueblo, Colo. Address Geo. F. Munger, P. O. Box 635, Pueblo, Colo.

WANTED.—To purchase 400 bushels of pure Golden millet seed and 100 bushels pure German millet seed, which must have been grown this year and warranted pure. Address H. M. Donaldson, care First National Bank, Marion, Kas.

OTTAWA TELEGRAPH INSTITUTE.—J. T. Preshaw, Manager, Ottawa, Kas. Teaches the art of Telegraphy in shortest time and puts you in positions. Write for terms and particulars.

WANTED.—Family orders for winter fruit of all kinds. Also evaporated fruit of all varieties for sale in ton lots or less. Correspondence solicited. Samples furnished if desired. N. H. Pixley, Wamego, Kas.

FARMERS and many others will fail to consider their own best interest if they do not get my list of bargains in farms, etc. Now is the time and Northwest Kansas the place to buy. 100 per cent. profit may be made in one year. Address ISAAC MULHOLLAND, COLBY, KAS.

TWO-CENT COLUMN--(Continued.)

HOWARD'S CATTLE RACK saves toll and expense. Agents wanted. Liberal commission. Address H. Howard, Louisville, Kas.

FOR SALE OR TRADE FOR NORMAN OR HEAVY draft stallion, one very fine trotting-bred stallion, 4 years old; sire Joe Young, record 2:19½, dam Peerless (registered). For particulars address Robert Ritchie, Peabody, Kas.

CORN-FODDER LOADER.—It will work whether the corn shocks stand or are husked and heaped in piles. Price low. Address D. H. Good, Canada, Marion Co., Kas.

STRAYED.—Away from my farm, four miles northwest of Bushong, Kas., two bay mare colts, 2 years old last spring, and one mule (horse) colt 1 year old last spring. Any one giving information as to their whereabouts will be liberally rewarded. M. M. Organ, Bushong, Kas.

WANTED.—Ranch or stock farm, horses, cattle, and complete equipment, in exchange for Kansas City improved and unimproved property. Address with full description, Lock Box 149, Kansas City, Mo.

D. S. SKINNER has again opened a shoe store at 817 Kansas Ave., Topeka, with all new goods and at low prices.

WANTED, VINEGAR.—Farmers having good older vinegar of their own manufacture for sale will please send card with prices to "Vinegar," Kansas Farmer office, Topeka, Kas.

ROBERT ROUNDS, Morganville, Kas., will all orders received before the 18th of November, 1891, for spring pigs, either sex, at \$11 per head, and if five or more are taken in one lot, at \$10 per head. Yearlings, either sex, \$15. Send orders at once; don't stop to write for description, as I will send nothing but good pigs old enough for service, with pedigree for any record. See his advertisement on page 14 and correction of sale date in "Gossip About Stock."

\$150 BUYS SIX HOLSTEIN BULLS.—From six months to one year old. All good ones, sired by a "Shadeland" and out of registered dams. Offer good for thirty days only. E. O. Raymond, Wiley, Kas.

WANTED.—Second-hand windmill, cane mill, portable and stationary engines. To rent farms. For sale, stallions, jacks, cattle, sheep, fifteen trotting mares for farm, and 1,000,000 wants. National Want and Supply Bureau, Topeka, Kas.

SHORT-HORN STEERS.

One hundred and thirty head of 2 and 3-year-old Short-horn steers for sale. A No. 1 lot. Address MILLER & BENEDICT, Medicine Lodge, Kas.

FARMERS Wanted.—To sell strictly first-class Nursery Stock. Salary or commission. Brown Bros., Nurserymen, Chicago, Ill.

FARMERS Saw and Grist MILL. 4 H.P. and larger. Catalogue free. DELAUX MILL CO., Atlanta, Ga.