### THE KANSAS FARMER

E. E. EWING, Editor and Proprietor, Topeka, Kansas.

#### Sub-Earth Ventilation.

A LIBREAL OFFER TO THE FARMERS OF KANSAS.

All concede that the development of science and invention have given to the present generation innumerable business facilities, comforts and luxuries in the way of transportation, intercourse, food, beverages, light-generators, medicines, optical apparatus, architectural construction and decoration, clothing and personal adornment, ventilation, refrigeration, etc., of which our architects never dreamed.

The catalogue of necessities and luxuries named, though quite numerous, does not embrace a tithe of the channels in which discoveries and inventions that we are enjoying, and that many now living saw at their inception, and have lived to witness the development of from a mere novelty or toy to an absolute necessity in international intercourse, by which antipodes communicate with each other with greater dispatch than denizens of the same township could before the days of telegraphy.

The few examples mentioned will, however, suffice to substantiate the claim in the premisory paragraph of this paper—that the present is an epoch of unprecedented progress in all that pertains to high civilization, but that there has been a corresponding progress in Christianization, or of wholesome moral growth in nations, communities, families, or individuals, by whom Christianity has long been claimed, the writer prefers to remain non-committal.

The special object of the writer will be, by the permission and co-operation of the editor of the FARMER, to offer to rural residents of Kansas, who may become the pioneers, in each county, in introducing and using sub-earth ventilation for dairy or other purposes, a patent license for the use of said system, at a nominal price, that a knowledge of its value may thereby be generally disseminated-feeling fully assured that that is all that is required to give dairymen and others a just appreciation of its real merit and great adaptability and economy for the purposes intimated, such as has obtained wherever it has been rightly applied elsewhere.

parts of Missouri. I received a volunteer note from J. L. Erwin, of Fulton, Missouri, a few days since, in which he says: "I have now had an opportunity to test sub-earth ventilation in my dairy through both thermal extremes-the summer of 1879, and so far in 1880. I have been making butter all winter, and the prices that I obtain for my butter are forty per cent. above those at which the best and highest priced butter sold in our market, made in ordimary certars, brings. Sub-earth ventilation is equally good for all seasons, or for hot or cold weather. I can now control the temperature so as to make good butter at all times, which I never could do before. Your system suits me."

Chas. W. Sylvester, of Marengo, Ill., who has been using sub-earth ventilation since 1876, says: "I can make butter now at one season as well as another, and good butter at all times. I always had to bank the walls of my house to keep vegetables and fruit from freezing, but the air from the sub-earth duct, which I now let circulate under the entire house, never permits the temperature to go lower than forty degrees, and I find that the air from the duct warms the entire house in cold weather, and saves a great deal of wood. I would not be without subearth ventilation on any account."

Wm. Marshall, Esq., of Whitewater, Wis., says: "I have now had an experience with sub-earth ventilation during two winters and one summer, and I am delighted with it. It works just as well in cold as in hot weather. The cheese that I cured by sub-earth ventilation and kept for six months by it, brought forty per cent. more than the same kind of cheese that is made from the same quality of milk, and made the same, and cured in the are low at the time of the first freeze of the same way. common curing rooms. The air from the duct is so dry and pure that nothing molds in the and flood comes and covers the ice with silt, and room ventilated on the sub-earth ventilation no good ice is obtainable during that season. system. It is very good indeed, and is all and and damp air are the great trouble there, in cheese manufacture and keeping. I am think- perpetual care, and labor of a heavy and uning of leaving the boys in charge of the dairy pleasant character, and in winters like the past,

having been here twenty-two years, and building me a large cheese-curing and preserving house there. I am sure that I can, with subearth ventilation arranged as mine is, cure cheese better than it is now done in England, or on the continent, and that I can preserve it so much better than it can be done in any other way, that I can make the cheese-curing and storage business very profitable. We have visitors from all parts of the country, and all are delighted with sub-earth ventilation. It recommends itself to all who see it. If I had only known what I now know of sub-earth ventila-\$2,000 a year more than I have. We have lost heavily on cheese shipped to England, for the want of proper curing, which we could not affect in the hottest season, nor in winter-we could not keep a proper uniform temperature, and a dry air in the curing-room, as we can

with sub-earth ventilation." I could give the address of others who are using sub-earth ventilation, and some who express great delight, as well as satisfaction with their experience with it, but I have given the address of two good butter-makers and one leading cheese maker, who may be addressed by all who may desire to investigate sub-earth ventilation.

It has been very interesting to observe the class of persons who have, in every district in which sub-earth ventilation has been introduced, been the pioneers. They have almost invariably been the most intelligent, sagacious, progressive and useful citizens in their respective communities.

There is, however, another class who are adopting it in the localities in which the class described have led, who, strange as it may seem, are as low in the scale of civilization as the pioneers are exalted. This class of followers is actually induced to adopt the new system from jealousy, that niggardly incentive. Seeing their more intelligent neighbors enjoying what they look upon as a luxury which they do not possess, yet have the means to purchase, but which they had not the intelligence to appreciate and adopt for its obvious merit, they covet and secure it that their leading, progressive neighbor shall not be able to say that he has a thing that they cannot afford.

The writer mentioned the fact above stated to an itinerant, parlor-organ vendor, who replied: "My experience in the sale of organs has been ries, and in the sand hills north and west of the same as yours in the sale of licenses to use me a few miles. your system. Having sold an organ to a lead instrument, but they could not bear to have the neighbors say that they could not afford to have what their progressive neighbors had."

I find in the leading article in the FARMER, and Cheese," signed J. H. S., the following. In speaking of the adaptability of Kansas climate for dairying, he says:

"We cannot make good butter in Kansas, in hot weather. Even the best cellars and milkhouses do not exclude the hot wind and dust. itself. My cottonwoods grow faster than any So say our best butter-makers, and hence it is that for six of the best months in dairying, but little solid butter is made."

That this statement is true in the main, of Kansas, as alledged, I have no doubt, i. e., in the use of ordinary milk-houses, having neither cold water nor ice. With these cooling agents, and skill in their use, good butter may be made in Kansas, and the "Cooley" system recommended by J. H. S., is the best apparatus for making butter in the use of ice, known to the writer. But cold water and ice are at best difficult to obtain and maintain. Many cold, flowing springs which had been considered perennial for a century or more, have failed entirely. The writer can now call to mind numerous instances of the kind, and many others, where strong, flowing springs and wells the seed, in nursery rows in the spring of 1876,

cooling milk. The same is true of streams from dams in which ice is gathered. They not unfrequently of the same age as the beech all died in the season, and before ice is fit for gathering a thaw

Ice-houses that will keep ice, in middle and the others from seed from the Medicine river. more than you recommended it to be. It is low latitudes, are not matters of chance, nor are The Missouri variety grows the faster. They very valuable in all parts of this country, but I they built, annually filled, and the ice protected are healthy, but as the timber is not very duraam sure that it will prove more valuable in in them, and daily manipulated for dairy pur-Eugland (mv native country) than here. Fogs poses, and secured to dairymen without very considerable original outlay, frequent repairs, shall not plant any mere. business in this country, and going home, after no trifling amount of disappointment and loss.

In short, it is everywhere conceded that natural supplies of cold water and ice are unreliable, and their failure has often occasioned dairymen who are depending on them, very severe loss. I have, in my memorandum book, a note of fourteen "spring-houses," once used for butter making, in different parts of the country, the water supply in which has partially or entirely failed, and they have been abandoned and nine out of the fourteen proprietors nearly abandoned butter-making, and with heavy loss and inconvenience in some instances, but they are now using sub-earth ventilation with full tion, ten years ago, I could have made at least satisfaction and unshaken confidence in its perpetuity and reliability.

Unlike veins of water in the earth, and streams from which we obtain ice, the tempering potency of the earth below solar influence is absolutely reliable and may be availed of to an indefinite extent and alike at all seasons and in all habitable latitudes. It is a demonstrated fact that denizens of both the tropics and of the highest habitable latitudes may, by means of sub-earth ventilation, properly applied, supply their dwellings with pure air at precisely the same temperature perpetually, and the sub-solar temperature is known to be 18 degrees to 20 degrees lower than is most desirable for human occupation, hence it only requires to be heated artificially say from 50 degrees up to 70 degrees, or 20 degrees in the coldest weather, provided the building and air supply air-duct are properly constructed, to have it as warm as is desirable.

The degree of luxury and economy attainable in the use of a system possessing such desirable and remarkable characteristics, appears really anomalous, until the action of the physical laws involved are clearly understood, when it becomes alike simple and axiomatic.

Mr. Editor, it was my purpose to embrace in this paper a proposition to the farmers of Kansas, but I am warned, by the pages of my manuscript, that it is already too long, hence I shall defer it till your next issue, which I regret.

J. WILKINSON. Brooklyn, New York.

Tree Experience.-No. 7.

BY B. P. HANAN.

COTTONWOOD. Cottonwood grows wild on the Medicine riv er and tributaries, on the Arkansas and tributa-

ing, intelligent citizen, I have often sold several claim, some by themselves and about ten acres to neighbors, whose incentive to purchase was in between ash, walnuts, soft maples and other jealousy, for not a member of the family had slow growing trees. My plan was to cut them the least taste for music, or ability to use the out for fuel and other purposes, as soon as they got large enough, which I thought would be sooner than the other trees, which I designed for a permanent forest. I also thought they would cause the other trees to grow straighter of the 7th of April, under the heading "Butter and more slender. But I find the cottonwoods grew so fast that they reb the other trees of moisture, in a dry time, by their roots; therefore I have abandoned the plan and believe it is best, as friend Bishir of Hutchinson says, to plant each variety of forest and fruit trees by other trees on my lands. A few of my trees were denuded by the grasshoppers in the fall of 1878, and died during the drouth in 1879, as did many others in this part of the state. A large worm (of the tobacce worm species, I judge,) ate the leaves from many of the trees last summer which helped to kill them. I would not advise to plant cottonwoods except for quick returns where other timber is not to be had. The timber is not valuable for any purpose, except for fuel, and quick returns. Catalpa, black and honey locust grow almost as fast, and ash, the maples and other trees, are so much more valuable when grown, that I prefer to plant mostly of them.

BEECH I planted about 100 beech, one year old from have so nearly failed that they are worthless for but they all died when the hot dry weather came on.

HACKBERRY.

I have a few trees two years old, 4 to 6 feet high. A part are from seed from Missouri, and and other trees which grow equally as well, I

HONEY LOCUST. In the spring of 1877, I planted a peck of

buried, and frozen during the previous winter. but few of them came up; but they came well the next spring after remaining in the ground n year longer. Hot water is better than freezing, I think. They were planted in a row on my timber claim. In the spring of 1879 I dug up and thinned them, leaving one every five or six feet. I transplanted those I dug out, and lost only about one per cent, notwithstanding it Fair. was the worst spring for transplanting trees. I have experienced here. The seed was gathered in Missouri from trees without thorns. But some of my young ones have a few thorns, and a few of them have many. My trees are very thrifty, grow up straight and as fast as any I have, except the cottonwoods. I have one tree, two around. It grew five feet eight inches the first

### Riley County.-Manhattan.-The Agricultural College.—Dry Weather.— The Fair.—Fine Stock., Etc.

This town, the county seat of Riley county, s 118 miles west of Kansas City, and on the line of the Kansas Pacific railroad. Manhattan is a flourishing town of 2,000 population, and is pleasantly situated on the level, rolling land between the bluffs and the Kansas river. The streets are well macadamized or paved with gravel, and the pavements and crossings laid with stone. The houses are principally built with stone, which gives the houses a solid appearance. It is a good town-her citizeus being moral, energetic and public spirited. Two newspapers, the Nationalist, by Alfred Griffin, and the Enterprise, by Mr. Runyon, are published here. Both are well conducted and ably edited papers.

We were indebted, this merning, to the kindness of Prof. Ward, for a visit to the Agricultural College, situated a mile from the town, where we spent an hour or so most pleasantly. We met a very kind reception from President Fairchild and all the Faculty. We visited the rooms of Prof. Ward, Prof. Shelton, Prof. Platt, Prof. Popence, and the office of the Industrialist, in charge of Mr. A. A. Stewart, and listened to the recitations of a number of classes, with a great deal of pleasure and pride in the institution. We also visited the carpenter shop, where some ten or twelve young men were learning to shove the plane or learning the use of the boring machine and turning lathe. We there saw tables, desks and panel doors made by students that were in their second year, that would do credit to an old, experienced workman. While looking through and noting the fine facilities for the young men of Kansas to acquire a good practical education at this institution, I could but wonder that there were in attendance only about 140 students. The Faculty of this college is an able one; the cost of acquiring an education here is very cheap, and there ought to be 500 Kansas boys in attendance. Of course a visit to the college would not be complete without a visit to the barn. There we saw the finest herd of thoroughbred Short-horns that we have ever seen in the west-a bull and some twenty odd cows, heifers and calves.

The weather is very dry. Before your readers peruse this hastily written letter, we devoutly hope that the soil of Kansas will be drenched with a warm, April rain. The wheat in this section looks well-much better than one hundred miles west, but must suffer badly if rain does not come within a week.

will be hard to beat.

There is much fine stock-horses, cattle and are also moving in the matter, and with a reasonlooked upon before.

your live, thrifty farmers and energetic and a hedge. hency locust seed. Although they had been public spirited citizens, afford to let the prejn-

dice and jealousy of a few prevent this county being represented at this Fair by a display of her farm products? They cannot. Other her farm products? They cannot. Other counties all around Shawnee will be there, to counties all around Shawnee will be there, to show to the thousands there assembled, from day to day, the fertility of their soil by proof that canhot be questioned. We hope that the good citizens of Shawnee county will think of this seriously and follow it up with action, and make a show from her rich farms at the State Fair.

JOHN H. RICE,

Gen'l Ag't. W. N. Fair Association.

### Trees for Windbreaks.

ED. FARMER: In your issue of March 3d, Bro. Bishir, of Hutchinson, comes forward with a 'yea' for the 'doomed tree.' Now I want to hear from the men who paid Bro. years old, that is nine feet high and six inches Bishir fifteen cents for lombardys in their 'teens' at one year old. How many survived the season of 1879? Of course it pays better to raise lombardies and sell them for fifteen cents each than to raise cotton-woods and sell them at five cents. No one will dispute that. But that is not the question with Kansas farmers. With them the great concern is which makes the best and quickest and cheapest wind-break? Every experienced Kansas farmer must know that it would never pay him to purchase these untried foreigners at fifteen cents each, when he can stick native cotton-wood 'sticks' into the ground and make an effective wind-break and fence in three or four years. Now if there is a man in the Arkansas valley west of Hutchinson, who planted lombardies in the spring of 1879, we want him to cast his vote in the FARMER. We do not desire to spoil the trade of any one who may have a 'corner' on lompardies, for they are very beautiful trees.

In the spring 1877 I put out a 3-mile hedge with cotton-wood cuttings. At one end I put in several rods of lombardy cuttings. That is the only gap of any consequence in my hedge. to-day. I can give no good reason why they did not grow. I will not explain that. I would say that they had good cultivation; in fact they received more attention than the cotton-wood.

It is safe to confine ourselves to facts and It is safe to confine ourselves to facts and experience in these matters. In the spring of 1874 I planted two rows, twelve feet apart, of cotton-wood seedlings, four to five feet apart in the row. The grasshoppers killed a small percentage of these. In the following spring (1875) I filled in these vacaneies by trees similar in size. These two rows now form a perfect windbreak; indeed I would not desire a more complete wind-break. I have a peach and apple break; indeed I would not desire a more com-plete wind-break. I have a peach and apple orchard on the north of it and the good effects are plainly to be seen. The trees are about six inches in diameter and from twenty to twenty-five feet in height. Not a single one has died since I filled the vacancies in 1875. They have had no cultivation for the ways and but have had no cultivation for two years and but very little pruning.

Now I should like some one to step forward

and give the same showing for the lombardy. If Bro. Bishir, or any of those who have bought lombardies in their 'teens' at fifteen cents each, can make such a showing let them speak out.

Farmers in this section of Kansas are waking

up to the importance of wind-breaks. They almost invariably plant the cotton-wood, mostly almost invariably plant the cotton-wood, mostly cuttings. This we claim is wise. The cotton-wood is a native and the cuttings are easily procured, with little if any cost, except the work of cutting and preparing them. On account of its quick growth the farmer is very soon rewarded for his labor. It is claimed that they are not valuable for timber; in fact no one claims that they are valuable for timber. That is not what we plant them for, but for shelter and wind-breaks. They are valuable for their rapid growth: they also answer for for their rapid growth; they also answer for fuel, and dimension lumber when we cannot get anything better. We must plant other kinds for fuel and lumber. Among the best I would mention the walnut. It is a native and The Western National Fair, to be held at the seed can be easily procured. They will Lawrence, Kansas, in September next, is en- grow rapidly after two years old, and will do gaging the attention of every one in this section. well close by the side of a cotton-wood wind-It was our pleasure to meet some twenty-five or break, such as I have just alluded to. I have a thirty of the solid men and thrifty farmers of border of walnuts growing inside of my cotton-Riley county, at the Adams House, last night, wood wind-break. They have seemingly done and confer with them on the subject of the the best where they are nearest the cotton-Fair, and the propriety of Riley county making wood. They are ambitious growers, and have a county display of farm products, etc., at the a tendency to overreach everything else that Fair, in competition for the grand \$1,000 pre- may be growing by their side. I would advise mium. Their determination was unanimous all those who have put out cotton-wood hedges and energetic in favor of the proposition. Riley or wind-breaks, this spring, to plant a border of county will be there with a county display, and walnuts this fall or next spring, next to the cotton-wood-say eight feet from the cottonwood-dropping the nuts from one to two feet hogs, in this county. Mr. A. W. Rollins, of apart in the row. I would plant not less than this county, with his herd of Berkshires, took three rows either four or eight feet apart. If the first premium at the Kansas City Exposi- the rows are four feet apart, on an average tion, last fall. Saline, Dickinson, and Davis Kansas soil, by thorough cultivation for three seasons, they will need no further attention but ably favorable season, there will be such a col- thinning out where they crowd each other. If lection of agricultural products from twenty or the rows are eight feet apart, a row of corn can thirty of the best counties of Kansas, at the be cultivated between for three or four years. Bismarck Grove Fair, as the world has never Next to the walnut I would plant catalpa, vox elder, ash and mulberry in their order-What, Mr. Editor, will Shawnee do? Can mulberry last-for it is claimed that will make J. B. SCHLICHTER. Sterling, April 18, 1890.

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### Loultry,

### Essay on Poultry-Raising.

"To become a successful poultry-breeder requires time, care, thought and study, as well as practice." The question invariably arises: What breed shall I keep? Which do you think is best? That one breed is superior to another in some respects there is no mistake. None are worthless, yet the profit is less from some than others. Select some good fowls of any breed you may fancy, of pure blood. For eggs, I would suggest Leghorns—either variety, Hamburgs, White Crested Black Polish, Houdans; but for eggs and table use, the Plymouth Rock, Dark and Light Brahmas, Cochins, or other of the Asiatics. At the head of the list I would place the Plymouth Rock. I have tried many and find nothing that exceeds them as egg producers or as a table fowl.

We will suppose you have your birds. Now, how many hens to a cock? If of the small breeds, twelve hens if yarded, fifteen or eighteen if at large; if Asiatics, ten if yarded, and fifteen if remaining out and the cock is vigorous. If you are just starting with a trio of hens, keep the cock separated from the hens, putting him out with them every few days. There is a great deal said as to how long the the nest boxes and roosts; add an ounce of carpose. Strict time is kept, and the one which the hive is dissipated. eggs are fertilized after copulation. Some bolic acid to a gallon of whitewash. This will accomplishes the feat soonest is declared the claim that after the fifth egg the vitality ceases. rid the house of lice if there be any in it, and winner. Another more difficult task is then This may have referred to the large breeds, but my word for it your hens will be healthier, imposed, and one which tries their sagacity to any assistance. The bee-keeper who has suffic-I know from sad experience, that a dozen eggs happier, and lay better than in a dirty, filthy the fullest. A number of sheep from different lent judgment to properly manage bees can of a favorite pullet were rendered useless by her running with a game bantam cock. So if you want to keep your breeds pure, separate your cockerels from the pullets whether they have commenced laying or not, just as soon as you see they are paying attention to them.

#### FEEDING POULTRY.

In winter I would feed, in the morning, warm feed, either corn meal mush or wheat screenings, scalded or allowed to swell, or oats treated in the same way, with whole corn occasionally: corn and wheat screenings at night; scraps from the breakfast and dinner table at noon. Give plenty of green food—cabbage, onions, or turnips; preference given as they are named. In warm weather feed small grain most-oats, wheat, or screenings, with a little corn at intervals of a few days. If the fowls are yarded, give green food, if running out they will pick up sufficient for their needs. Pure, Irish water should be given them twice a day, at lead, in winter, and oftener in warm weather. Iron drinking vessels are preferable to either earthen or wood. Keep them free of slime by frequent washing:

To keep fowls bright and healthy, give Douglas mixture-one tablespoonful to a quart of drinking water. It is made thus: "One pound of copperas and one ounce of sulphuric acid dissolved in a little warm water, then add one gallon of hard water. It can then be put in a jug or stand in an open vessel, and is always ready for use. This will be found an excellent tonic and is very cheap.

Spade up a corner of the poultry yard when the ground is wet, and sow to outs, corn, or wheat, and let them busy themselves scratching it out as it is sprouting and the ground drying. Always see that your fowls have a good dust bath. Throw coal ashes where they bathe, also a little sulphur to rid them of vermin. See that they have plenty of gravel. Give them all the egg shells from the eggs used in the house, with lime either thrown to them or in their drinking water, and you will not be troubled aid in its digestion. with soft shelled eggs.

### BROODY HENS.

Never use cruel means to break a hen of sitting. After you are convinced that she has the "incubation fever," take her from the nest and confine her in a nice, dry coop; keep feed and water before her. After four or five days' 'treatment" she will not return to the nest. She should be removed to the roost with the other fowls every night, otherwise she may get to sitting in the coop. This I find a good way to treat them. In a few days she will be feedaway on the nest or contracting disease in a When the female turkey is allowed to hatch

### SETTING HENS

Get your nest ready before getting your hen. Set her away from the rest of the flock in a so that when hatched the chieks can be immesheltered place if possible. I prefer a barrel to anything I have ever tried. Put four or five ful mother-wandering off too far at a time, beinches of damp earth in the barrel. Lay the barrel on the side, after hollowing out slightly weaker chickens are almost sure to be lost. the earth where the barrel is to be placed. Put Chopped onions, green barley or green oats in fine short hay or straw; sprinkle a little sul- chopped fine, may be advantageously mixed phur in the nest and put in a few eggs; put with their food when very young. All through your hen in the nest, close the end of the bar- the fall they should be fed night and morning. rel and leave her. Set her late in the after- This insures their return from their rambles to noon. If by next day noon she seems con- the vicinity of the homestead. The male bird tented take the eggs from her and give her the does not attain his full plumage before six eggs you want her to sit upon. Let her come years of age, and as few are allowed to arrive at off every day for feed and water, which should that period, it is seldom we have an opportualways be prepared before opening the barrel. nity of seeing this splendid bird in the full It is best to have a lath coop two feet high by majesty of perfection. two wide, length of lath, one end closed, to set Kansas ought to be a good turkey region, in front of the barrel, then the hen is always sure to go back without trouble. It is well to food on the prairies. A flock of line turkeys sprinkle the earth with tepid water in very represents more money than the same number warm, dry weather, or see that the earth is suf- of pounds of any other meat product. ficiently moist.

CARE OF YOUNG CHICKS,

They should not be handled more than need be. If it is necessary to help them from the them from the nest until twenty-four hours old. and it is a matter of pleasure to all lovers of are digesting the yolk from which they were are becoming introduced into our country. No

be fed in connection with the egg. Young duties. chicks should be fed five times a day until ten weeks old. Remember that green food (onion under the care of but one shepherd, with the pounds of winter stores for each colony. Betops chopped fine or lettuce) is excellent for aid of these dogs the sheep are allowed to roam chicks. Never allow chicks to perch until over vast territory, oftentimes in such rough them away in leaves, straw or chaff, with a tunthree or four months old. Let them sit on places as to render man's attempts to follow nel to the opening of the hive to allow the bees

#### young fowls with the old birds. CLEANLINESS.

every month, at least. My poultry houses are and driving them into fold in the evening. the sanitary attention given them. Now is a those dogs at such trials are extraordinary, healthy, hence "spring dwindling" and the good time to renovate the poultry, house thor- They are managed in this way; first a few loss of so many in spring. Opening hives in them; then whitewash the house inside, also drive them into an enclosure built for the purare exposed to cold drafts, and the warmth of

#### Ottawa, Kansas.

### Raising Turkeys.

Turkeys may be raised with the greatest success by putting the eggs under a common hen; for the hen turkey is not so good a provider as most fows, and the young turkeys, unlike our other domestic fowls generally, give little signs of seeking their own food immediately after birth. When quite young they are very tender and need more than ordinary attention, the first and most essential thing being to keep them warm and dry. If they are allowed to run in the grass when it is wet with dew, many will be likely to die. For the first three or four weeks after hatching, therefore, care should be taken to shield them from the scorching sun, rains and dews. It usually requires from thiriy to thirty-two days for the eggs to

At two periods in the lives of young turkeys they require more than ordinary care. The first is about the third day after hatching. The second is about six weeks after hatching, when they throw out what is termed the red head. This is a very critical period for young turkeys, much more so than at the period of moulting. At this time their food must be increased and rendered more nutritious; boiled eggs, wheaten flour and bruised hemp-seed make an excellent food. Great care should be exercised in feeding the young turkey at all times. No slop food of any kind should be Some breeders feed sour loppered milk, but this is not a good article of diet. Sour milk boiled to a thick curd is good. It may be mixed with boiled Indian meal and a little black pepper may be occasionally mixed with while walking past a flock of sheep, designate it. Indian meal uncooked should never be the one he wished, and at night the dog would given to them. They should be fed often and go into the fold and drive out that particular the food thrown upon the ground, so that in one.

corn, boiled potatoes, refuse from the table, buckwheat, and occasionally a little fresh boiled meat in small quantities. By professional breeders, after this age, they are no longer called chicks but poults, and may now have their full liberty. When fattening, a little finely pulverized charcoal may be advantageously mixed with their food.

Our domestic turkey, not unfrequently in the ing with the other hens, (instead of wasting and produces a very valuable poultry bird. filthy coop), and will soon be ready for the next her own eggs she ought to be carefully watched, and, if possible, she should be induced to sit in valuables to the starting point, apparently some outbuilding; but if she steals her nest, as knowing that what they have done will put they generally do, then it ought to be watched, others on the lookout to kill them for the indiately cooped. The hen turkey is not a careyond the strength of the young ones, and the

possessing a dry climate and abundant insect

### Shepherd Dogs.

The intelligence and natural instinct of these shell, do so very carefully. Do not remove valuable animals cannot be too highly praised, They need no food during this time, as they fine stock to see the rapidity with which they hatched. Have their coop in a place well pro- farmer should be without one. They are tected from the wind, and where they will get watchful, docile, and indispensable, especially spring than are benefitted. They are often

will eat. Feed the chicks hard boiled eggs instincts for the care of stock, it is a matter of which promotes these in all animals—warmth chopped fine for at least a week. (I feed mine little trouble to train them, and once they have and comfort. Bees should have a bountiful this three weeks). After they are a week old, learned what is required of them they are faith- supply of food to last them till the tenth of May a little cracked corn and wheat screenings may ful and untiring in the performance of their furnished them in the fall. If they cannot pro-

straw on the floor, or a board ten inches wide them impossible. The dogs' sagacity is such egress and ingress in warm days, and let them reabout a foot from the floor, thus avoiding that they at once become familiar with the main undisturbed in their winter quarters till crooked breast bones. Do not house them with flock, and not only do they keep them closely the weather is mild, about the last of April or old fowls, as they peck and worry them, and herded, but prevent their intermingling with May first. If set out early the sudden changes never, under any circumstances, feed very the flocks of others which may be grzing in the incident to spring will effect the bees as they efsame localities. In the mountains of Scotland feet people or farm stock. The variable temand Switzerland it is a common thing to see perature of March and April is the most un-I cannot too strongly urge the necessity of flocks of sheep and goats under the sole care of wholesome of all the year. If the hives are perfect cleanliness. Clean your poultry house these dogs, they following them all the day, set out early the bright sun warms up the whole

throw under the roosts to keep the droppings trials have been instituted, in order to improve runs down below the freezing point, the hive is from adhering to the floor. I have not had the the breed and training of these valuable ani- chilled through and its inmates suffer. They cholera in my flocks for years, and I owe it to mals. The performances recorded of some of consume more honey, are more restless and less oughly. Take out the roosts and nest boxes sheep are allowed to roam a long way off from the spring and "examining" bees is productive and scald them by pouring boiling water on home; then the dog, or dogs, are laid on to of evil. Every time the hive is opened they flocks are placed together, and the dog is re- know the condition of each colony, by sitting quired to go among them, pick out and drive down beside it in the heat of the day and obinto fold his master's particular ones.

No one can look into the calm, intelligent face of the thoroughbred "Colley" without admiring him. He notices every action, and listens to every word of his master, as though he knew exactly what he wished, and was only sorry that he could not reply to him in words The many authentic anecdotes related of these dogs are so wonderful as still almost to east a doubt upon their truthaulness. For instance, it is related of a Scotch shepherd, who had in his charge seven hundred sheep, that one night as he was quietly driving his flock home, a thunderstorm burst upon and so terrified them as to create a stampede, and away the whole lot went scampering back into the hills. It was too late for the poor man to follow them, and then, could be have done so, to bring this great nummanner he spoke to his favorite dog: "Sirrah, they are awa." In an instant the dog was off. dog had gone. Disconsolately he wandered as dawn appeared, the dog not having returned, down a valley close by, to his joy he recognized "Sirrah," not with a portion only, but with the whole flock.

A story is told of another one of these dogs having driven the cattle from a burning stable, though perishing himself in the effort.

A sheep stealer in Scotland had one of these dogs so well trained that it is said he could,

of a "Colley," whose owner was a cattle dealer. most remarkable instance of their sagacity is know how to circumvent the custom-house ofoutlying districts, mates with the wild turkey, and hearing, but when two or more are on the in harm rather than gain." same errand at the same time, if they find an officer by himself, they not only attack and punish bim severely, but instantly return with their jury they have committed.

With such evidences of sagacity as the above, it should stimulate the breeding of these dogs, and once the country is stocked with them, the farmer can go to bed with the assurance that his flocks and herds will be carefully guarded, and the fearful loss by sheep-killing dogs put to an end. They can do the work so much better than men that the cost should not be a consideration, as they would pay for themselves in a very short time, no matter what was the price paid. In the famous Central Park, of New York, two of these dogs can be seen, every day, guarding a large flock of sheep. They keep them where ordered, or change them from one meadow to another, as directed; sometimes the shepherd divides the flock, leaving one portion in the care of each dog when he goes off to other duties. What a comfort that would be to many of our sheep-breeders who have large ranges for their animals, and who do not know half the time where they are !- Dizie Farmer.

### Apiary.

### The Early Feeding of Bees.

More bees are destroyed by management in the the benefit of the sun. When taken from the in wild and mountainous localities, to the suc- killed by ill-advised kindness. The grand es- the mammoth clusters are gone."

nest give the hen water and all the corn she cessful raising of sheep. So strong are their sential to life and vigor in bees is the same cure it for themselves feed honey or syrup before the severe cold of autumn comes or pack interior during the day and causes the bees to cleaned every week, and fresh seil or coal ashes . In England, within the last few years, field be unusually active. At night the mercury

> If the colony is strong as it ought to be, the bees will do their own house cleaning without serving the actions of the bees. The weakness or strength of the hive will soon be made manifest. If they show strength and vigor let them alone, if weak assist them by feeding. Hives that are set out early should be exposed to the sun in clear days and covered with bags, old carpets, etc., and boards at night and during cold spells. Apply the same rule: to that you do your own house keeping. Cover up close and warm at night and take advantage of the warm sunlight during the day.

On this subject of spring management, L. C. Root, a practical bee-keeper, of Herkimer, N. Y., in the Country Gentleman says:

"I sometimes wonder that the experience of different bee-keepers can vary so widely. This matter of removing bees from their winter quarters very early in spring, and stimulating ber in order again was an impossibility. Sadly them by feeding to very early breeding, is very did the poor shepherd feel; and in his saddest fine in theory, but in actual practice it is quite the reverse. In buying bees in spring, I almost invariably find that such as have been left It was so dark he could not tell which way the in winter quarters the longest are most advanced in brood-rearing. Leave bees quietly about during the long hours of the night, and in their winter abode until pollen is furnished by the early flowers, and then if honey is needhe had determined to go at once and report the ed, supply it. The advice given by so many to disaster to his master, when happening to look stimulate breeding during winter and early spring, if followed in our northern latitudes, will bring ruinous failure upon many an mexperienced bee-keeper.

I am frequently asked at what date I would place bees upon their summer stands. My answer to such is that a precise date cannot be given from the variableness of the seasons. In latitudes like Central New York, I would advise setting them out about the time the soft maple tree blossoms. Their prosperity will then depend more upon other conditions than that they be feel liquid sweet. In fact, I hesipicking it up the gravel which adheres to it will Another equally astonishing account is given all, if the hives are well supplied with honey. onths old the young turkeys may This dog would drive a drove of cattle to a bees be not allowed, from rapid breeding to great point to be of be considered as out of danger from over-feed- neighboring market town unaided. Should he consume all their honey, and thus check the ing, etc., and should then be fed with cracked chance to meet another drove in the road he increase. Honey is consumed very rapidly would so manage as to pass it without allowing when brood is being largely reared, and if a his charge to mix up with the others. But the scarcity of honey should occur, as is often the this point he says: case between fruit blossoms and clover, it is when they are used for sunggling. On the very essential that food should be supplied. frontier between France and Belgium a deal of While I practice feeding in some instances this business is done in passing laces from one from the time they are removed from the cellar country to the other. Not only do these dogs until natural stores are secured in abundance, yet experience gives assurance that great care ficials, and learn to avoid them, both by scent is requisite in so doing, and it will often result

### Korticulture.

### The Gregg (Blackcap) Raspberry.

### Peach and Apple Tree Borers.

M. B. Bateham, of Ohio, gives through the Fruit Recorder, the following valuable recipe to prevent borers getting into peach and apple trees: "Ten years or more ago I tried the use of paper bands and gas tar, in various forms, on my peach trees, and when carefully applied it was effective in excluding borers, but for the past seven or eight years I have practiced a more excellent way, and I know other fruit growers who have done the same, and would not think of going back to the old methods. It is simply using carbolic acid, which is the essence or spirit of gas tar, and is easily made to combine with water by adding soap, while the tar itself will not combine, and is far less safe and cleanly in its application. My rule for preventing borers is to get a pint of crude carbolic acid, costing 25 cents-and is sufficient for twenty gallons of the wash. Take a tight barrel and put in four or five gallons of soft soap, with as much hot water to thin it, then stir in the pint of carbolic acid, and let stand over night, or longer, to combine. Now add twelve gallons of rain water and stir well; then apply to the base of the tree with a short broom or old paint brush, taking pains to wet inside of all crevices. This will prevent both peach and apple borers. It should be applied the latter part of June in this climate, when the moth and beetles usually appear. The odor is so pungent and lasting that no eggs will be deposited where it has been applied, and the effect will continue till after the insects have done flying. If the crude acid cannot be obtained, one-third of the pure will answer, but it is more expensive."

We believe the above remedy for borers, would also exterminate grubs from strawberry, raspberry and blackberry roots-only that for strawberries dilute it with double the amount of

Whitewashing the bodies and limbs of pear rees is almost a sure preventive to fire blight. If, however, the blight makes its appearance in your trees, cut off the part affected at once, and slit the bark of limbs and body on one side with a sharp knife, and apply pure linseed oil .-Purdy's Fruit-Farm and Nursery.

### Stir the Soil

"If I had to preach a sermon on horticulture," says Downing, "I should take this for my text: 'Stir the soil.'" In dry weather it is very essential that the soil be stirred often The air waters the fresh dug soil much more effectually than we can do. A man will raise more moisture with a spade and a hoe in a day than he can pour on the earth, out of a watering pot, in a week. If the ground be suffered to become close and compact, the cool surface exposed to the air for the reception of moisture is smaller, and what is deposited does not enter into the earth far enough to be appropriated; but if the soil be loose and porous, the air enters more deeply and deposits its moisture beneath the surface. Almost any soil in which a seed will germinate may be made, by continued hoeing, to produce a crop. Above all, cut away every weed that appears. "One year's seeding makes seven years' weeding." The only use of weeds is to make a necessity of tilling the ground more frequently.

### Cabbage Experiments.

A cabbage grower of Erie county, Pa., gives some of his experiments in the Country Gentleman in raising this crop, which is a very valuable one if it is raised successsfully and preserved in good condition until m has been thought that cabbage, to keep in the best condition, should be buried, but this man's experiments seem to contradict this belief, those not buried keeping much the best. On

"I pulled some cabbage while frozen, and paid dear for the experience, losing about half of them, while those left standing until the frost was all out were not damaged, except the outside leaves of the heads. In December, during a warm spell, I pulled them, using a po-tato hook to pull on the stump and not the head, and inverted them between the rows in the furrows made at the last shovel plowing in October. As they were put into this furrow, care was taken to have the coarser leaves cover each other as much as possible, for protection from frost, The furrow formed a partial protection, as the sides of the heads were protected by it. The coarser leaves were the only covering thought necessary. Those of them not yet marketed remain as they were put last fall. Purdy's catalogue says of this berry: "We and they are all right, while a few hundreds I have grown every black raspberry that we have buried with earth after the 20th of January, ever heard of, or that we could get hold of, and are badly decayed, and I lose about four out of we are safe in saying that the Gregg is the lar- five. I need not have lost them, but I wished gest by one-half, and the most productive in to see which way was the best. I have been bulk by one-half; the finest, the meatiest, and troubled somewhat by the frost in them when the very best black raspberry grown. They are preparing for market, but after their being in very late, however, coming even after the the cellar a day or two, they were all right. bulk of the mammoth cluster are gone, My customers have found no fault with the cab-We picked at the rate of fifty bushels to the bages, but speak of their keeping so nicely. I acre from the plants set a year ago last spring, have prepared every one for market myself, while from no other kind of the same age (one and do not remember of finding one head, that year old) have we ever picked more than thir- was originally a good one, that was injured in bushels to the acre. From no other kind of any way. The field looks somewhat dilapidablackcaps have we over picked such an amount. ted, the frequent frosts using the coarse outer We have no doubt but what a plantation grown leaves up, but not hurting the heads any. It in good soil, with good care, that is the new takes a great deal of freezing to hurt a cabbage, growth nipped back so as to grow stocky and if inverted, and all the coarse leaves are left branch out, would yield over one hundred and on. I covered a few, but the frequent rains fifty bushels to the acre. Why, just think of caused them to be damaged, while the ones with bushes literally lined with clusters of berries no covering but leaves were all right. They averaging three-fourths to seven-eightlis of an would not stand so hard freezing after nearly all inch in diameter! Our pickers who have at- the outer leaves had been frozen and rotted off, tended to the gathering of our crops of that as they would in the fore part of winter. This sort, have averaged two quarts to other pickers is probably the hardest sort of a winter to keep of other kinds one, (the latter being equally as cabbages. Had it been a cold winter, with fast pickers too). We have measured many plenty of snow, I think they would have kept specimens that were one inch in diameter, while better in the same way. The November frosts its average size is three-fourths to seven-eighths hurt the outer leaves of the head before they inches. It is very late, producing heavily after were turned down, thus causing a little more breaking off, but otherwise no damage was done.

### Butrons of Tiusbandry.

#### Extracts from an Address of Rev. Thos K. Beecher.

The farmer should be and may begome master of nearly all trades. It is indeed a grievous thing to see, as I saw, an old man in harvest, when every hour was worth a day of ordinary 'time, come four miles to get me to whittle out a rake-head. Now by this one illustration, learn the whole story: A complete rake can be got at a store for twenty-five cents. I insist that if you will buy five or six dollars' worth of tools and sit down with your boy, jack-knife in hand, in some prepared shop, and go to making a rake-teeth, head, hoops and tail; and so that rake costs you three and a half or four dollars. Commerce says you are a fool to pay three or four dollars for twenty-five cents' worth. Wisdom says you are wise. Your boy has learned something; he is a bigger boy. He knows now how to use tools. You've got two shillings in your rake, twenty shillings in your boy!

There are many empty hours in the winter time which make nothing toward the money income of a farm, which are the very hours which make toward that costliest crop that a man can raise on a farm-his sons and daugh-

These little achievements of home ingenuity furnish, as it would seem to me in my dream, the stuff to take to the grange with you as topics of conversation. I have no particular respect for that girl who goes to the store and for a dollar and a half buys a half-worked pattern to finish up the other half; all the hardest and artistic work being done by dainty fingers in Europe. She sits down and fills in the ground, and makes a present to her mother of an ottoman cover, or her father a pair of slippers. I don't see that the girl has gained any faculty whatever.

But suppose that same girl should buy at a store an assortment of worsteds, and should pluck from the garden a pansy and lay it out on her canvas and make a piece of embroidery. You can buy something handsomer than that for two dollars. But I say, the girl who can make her own embroidery patterns has gained a faculty. She is more levable than the girl that has been merely ornamented with all that money can buy. And the boy brings his rake and jack-knife to the grange, and the girl brings her devices of embroidery to the grange, and these things are a leaven.

But, brothers, that is a cheerless farm home in which the care of the milk enslaves the women, and the clank of the churn is the morning call to labor, and a hundred firkins of butter is the yield of the farm; and the farmer brings back a story of net profits, one thousand dollars, to a wife and family who do not and cannot use wisely in the culture of manhood and womanhood more than-two hundred dollars.

I would further suggest: There is, there must needs be, in every gathered grange, a diversity of attainment. At that grange center, when you come together, is one who knows more about literature than all the rest put together. Let that one, then, make a selection of periodical literature; and let it be brought to the grange center, and carried home from the grange meeting, and circulated throughout the grange district. There is a better way of selecting newspapers, believe me, than subscribing to the sectarian paper of your church, or the party paper of your politics. Read all

The same may be said as to books. Obtain books for consultation. An encyclopedia of botany ought to be in every grange library, to be consulted by any bright eyed boy or girl that wants to know what the plants are that grow upon the farm.

There ought to be a microscope, the property of the grange, to be used by him or her of approved skill in using it, to tell others what may be discovered, and to teach others how to make the discovery. A circulating library is part of the apparatus of the grange. Three dollars from each family will give one hundred dollars' worth of books to the thirty families every year (for buying by the quantity you will buy cheaper).

### Farmers' Education.

It is not merely by the use of books that the farmer may become intelligent. He should be a constant experimenter, making himself familiar with the processes of nature, and ever seeking to discover her secrets. The ordinary farmer takes things for granted; his operations are largely conducted by guesswork, but he who would be intelligent must exercise patience, and experiment with painstaking and labor, and the man who thus comes in contact with nature must be elevated and ennobled thereby. The man who has learned how to read and think, if he will follow out the suggestions here made, will find himself growing in intelligence and enthusiasm for his profession, with each passing year. It wen't do to say you have no opportunities to become educated and intelligent. All knowledge is connected. If you take up one branch and pursue it a little way, you find other branches running into it at every step, and to understand the one you must become familiar, to a greater or less extent, with a hundred others. This is especially true of agriculture. As a science, it embraces all sciences, and its study quickens and expands the whole intellectual nature.

### The Case Properly Stated.

should occupy, in the following brief sentence: heavy animals of good style and in every way

"The man whose devotion to the grange cause is measured by his desire for political office, is unworthy of grange votes, and the grange that is run in the interest of politics or office-seekers is a failure. The political benefits that grow out of a well regulated grange are purely nonpartisan and belong as much to one party as another, and are designed to enlighten, purify and elevate public sentiment. This will guide the voter in his action at the ballet box and secure the election of men to office who are best fitted for the place, break up the habit of blindly follawing the yelp of every cheap fourth-rate politician who wishes to make notoriety and foist himself into office by 'gulling' the unwary

### A Live Grange.

The grange at Red Oak, Logan county, Ky., is perhaps as near the model farmer's club as any in Kentucky. Our attendance is large. We meet simply for the purpose of communicating information, and discussing questions of practical interest to farmers. We are making no effort to control the world. We are not going to elect a farmer for the next president. We are not bothering "middle-men," and they are not bothering us. We are not even controlling the railroad system of the country. We spend no time railing about the tremendous salaries paid professional men, doctors, lawyers, etc. We realize that our business is to till the soil, and all questions bearing on this great object, and on advancing the social welfare of our families, interest us. Farmers of experience say that they have found our grange of immense value. To the writer of this, its meetings are delightful, and we believe that, apart from the social influence exerted by such gatherings, the information exchanged is of incalculable value. This is the kind of co-operation we need just now-a co-operation of brains in regard to the best ways of farming .- Fruit

This is probably the best first step for a grange. The members will soon learn that it is part of their business to very largely contribute to electing "a farmer for the next president," and that they have an important work to perform in controlling the railroad system and bothering with middle-men. All these exercise a very great influence in regulating the farmer and the farmer's business, and he should exert a corresponding influence in regulating

### Miscellancous.

### The Competition of the Plains.

The American Stockman, which has a keen sight and is usually alive to any indications of a change in the fat stock business, sounds the following note of alarm to slow farmers, in a late issue:

"One who judged only by the appearance of

the supply of cattle seen day by day in the markets of the west, might be excused for thinking that our farmers are ignorant of the fact that far greater profit lies in the feeding of high bred stock than in raising scrubs, but they are not ignorant of that acknowledged truth. They know they can make more money by handling well bred stock, but their recollections of the fact is not always vivid enough at the moment to prevent their buying a scrub steer to feed, or a scrub cow to breed from, or a scrub or a grade bull to serve their herds. The well bred steer or cow, and the thoroughbred bull are so high-priced, and the scrubs are so cheap that the latter coax the money from the farmers' reluctant purse, when his better judgment assures him that he is penny wise and pound foolish. But, if many of the best itockmen in the states east of the Missouri are right in their conclusions, the question of the relative merits of the good and the inferior classes will not long be one of comparative profits, but the farmer will be called upon to choose between good stock, with a well-developed tendency to rapid growth and early maturity, and the oldfashioned description of cheap stock-and absolute loss. We might say he is called upon to choose now between these extremes, for already the keen and clear-headed competition of the cattle men of the plains, aided to an almost incalculable extent by the advantages of free range, has already reduced the profit, to the farmer, of scrub stock to nothing. Last winter Iowa, Nebraska, Kansas and Missouri took great numbers of grade cattle from the plains, filled them with cheap corn and hay that cost a mere trifle, and are now ready to crowd our markets with sleek, well fattened cattle, of a weight admirably adapted to the wants of the spring market. Last week saw the advance guard of this army, and, if we mistake not common and medium native steers, grazed on land worth thirty-five or forty dollars per acre and fattened on corn worth twenty to twentyfive cents per bushel, will suffer sadly in the contest for recognition from buyers. And yet the western plains have not sent any of their half-breed Short-horns and half-breed Herefords to compete with eastern cattle, but they have herds from which quite a respectable number of steers will be sent this year to show what manner of cattle can be produced on the plains by judicious use of thoroughbred bulls. The full significance of this fact will be apparent, in two or three years, to all the breeders

and feeders east of Nebraska and Kansas. "Not a few of the thinking farmers of Illinois, and the states adjoining this, express the conviction that he who would raise cattle in the The Texas Farmer states the position very future, without positive loss, must raise those properly which the grange as a political power which will at an early age develop into ripe, pounds will seed an acre.

suited to the needs of the best and most exacting markets here and abroad."

### The Paper Combination.

The combination among paper makers to evy tribute on the whole publishing fraternity, is causing earnest and just remonstrance from publishers, and such a protest as it will be well publishers, and such a protest as it will be well for members of congress to heed. Among the hundreds which have gone forth we copy the following from the Vermont Record, which places the subject to the well-such which will be well-subject to the well-subject to the well-subject to the well-subject to the well-subject to which will be well-subject to the well-subj places the subject in its true light to the public:

"There are five manufacturers of wood pulp in the United States, and forty-six paper maunfacturers who pay a royalty for using the pulp. These fifty-one corporations constitute the combination on printing paper, which demands extortionate prices. Other manufacturers of paper are numbered by thousands. The present duty on ungized printing paper is 20 per cent., and the revenue derived from it in the fiscal year 1878 (the latest analytical compilation) was \$311; on sized printing paper the duty is 25 per cent., revenue collected in 1878, \$214; on writing paper the duty is 35 per cent., revenue collected, \$3,937; on wood pulp the duty is 20 per cent., and the revenue collected was \$128 (during the last fiscal year it was but 48 cents), and on other crude paper stock there is Mound City, Kas no duty.

"The insignificant amount of revenue derived faom most of the articles named is the best evidence that the duties are prohibitory, and not protective in the true sense, and that the manufacturers of them are able to manipulate the markets about as they please, whenever they combine to do so. The ways and means committee favor a bill to place paper, wood pulp, and other crude articles, on the free list, and reducing the duty on woolen goods from fifty to forty per cent., ad valorem, and it is only natural to expect that all the manufacturers of these articles will combine to defeat such a bill. It is due to the intelligence of a majority of that committee to give them the credit of knowing this; and, in the interest of the entire reading public, we should know who those are who dare, in open congress, attempt to strangle with riders the bill to place wood pulp on the free

"At the present cost of paper, it is quite impossible for journals which depend upon their elreulation to pay expenses at the old rates. Either the pulp and chemicals used must be admitted free, or the people who publish and buy newspapers must be unjustly taxed for the ben efit of foreign manufacturers and a small special interest in this country."

### The Colorado Plains.

That portion of the Centennial state that lies west of Kansas and east of the Rocky mountains is a treeless plain covered with a dense growth of buffalo grass, which seldom reaches a hight of more than three inches, interspersed with occasioal clumps of sage bush and cactus. This plain has an average width of about two hundred miles, some fifty miles of which is included in Kansas. The United States senate has taken a step looking to utilizing this territory of over 50,000 square miles, at least for pasturage, if not for cultivation. A bill has passed that body authorizing the secretary of the interior to make two experimental borings, at such points as he may select, to demonstrate the practicability of obtaining overflowing water. The great plain lies on the cretaceous, or chalk formation, with portions of it overlaid by more recent deposits. This is a condition favoring the success of the experiment. The result of the French artesian wells in the African desert is encouraging.

### Bitter Cream.

Henry Stewart, discussing dairying in Rural New Yorker says that bitter cream is caused by something in the food or in the condition of the cow, every one knows how prevalent that vile plant, bitter weed or rag weed, (Ambrosia artemisizefolia) is; and how much of it is cut with the second cutting of the meadows,-the muchpraised-for-butter rowen hay. This weed will give to milk, cream or butter, a very bitter flavor, which no process or disguise can conceal. If turnips are fed, I defy any person to escape bitter cream and ill-flavored butter. The presence of a heap of turnips on my barn floor the past winter so impregnated the air, although none were fed, that the milk was perceptibly flavored by them until they were removed. Feeding immediately after or before milking is unavailing. There are cows which from some peculiarity of condition give milk which turns bitter, Such cows should be discarded from a winter dairy as soon as the fault is discovered, for they are not healthy and their secretions are not pure. The mixture of a pinch of saltpetre in a six quart pan of milk will remove or disguise this butterness, I cannot say which.

### Egyptian or Rice Corn.

Egyptian or Rice corn was successfully raised in this vicinity last year, when corn was nearly all destroyed by the worms, there being no old land, and all crops being on newly broken sod. Put in as late as the first week in July, it matured before frost came and produced twentyfive bushels to the acre. Cooked like rice or hominy, it makes an acceptable dish for the table, and farm animals of all kinds eat it as readily and thrive as well on it as on corn. It has proved a valuable crop in the western counties of the state, being a sure crop on the sod, no matter how dry the season. To such of your readers as cannot readily obtain seed, I will send sufficient to plant one acre or less on receipt of stamps to pay postage on same. Two

MRS. A. B. PRESCOTT.

### Advertisements.



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From pure Light and Dark Frahmas. Write to F. E. MARSH, Manhattan, Kas.

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Eggs for hatching from Pure-bred Plymouth Rocks, ark Brahmas, Houdans, and White crested Black olish. Eggs \$2 per 13. Circulars free.

J. E. ROSS.

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Breeder and shipper of pure bred Light Brahmas, Plymouth Rocks and Brown Legacorns. Am now booking orders for eggs as follows: Light Brahmas, \$3.90, Plymouth Rocks, \$2.90 and Brown Leghorns, \$1.50 for 13 eggs. Chicks for sale after July 4th. Address,

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### Eggs for Hatching.

L. & D. Brahmas, Buff Cochins, Plymouth Rocks Brown & W. Leghorns, Pekin and Aylsbury ducks eggs warranted fresh and true to name. A law trio each of the above fowls for sale. All of the best and most fashionable strains. I also raise and offer fo

#### 8 Varieties of New Seedling Potatoes.

All'o: the best; hardy, prolific and good keepers: Alpha, Rulz, Burbank's. Snowfiake, Early Ohio, Gen-nisee County, King and Improved Peerless. J. DONOVAN, Fairmount, Kansas. Write for prices, etc.

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Can rely upon immunity from contagious disease in their flocks after use of LADD'S TGBACOC SHEEP WASH. GUARANTEED an immediate cure for scaland prevention of infection by that terror to flock-masters. GUARANTEED to more than repay the cost of application by increased growth of wool. GUARANTEED to improve the texture of the fleece instead of injury to it as is the result of the use of other compounds. GUARANTEED to destroy vermin on the animal and prevent a return, GUARANTEED to be the most effective, cheap and safe remedy ever offered to American Wool-growers. No flock-master should be without it. I have the most undoubted testimonials corroborative of above. Send for circular and address orders to W. M. LADD, 21 N. Main St., St. Louis, Mo.

### The Sheep's Life and Shepherd's Friend,

New and very Important Discovery.

### Deodorizer, Disenfectant, Antiseptic, Insecticide,

and valuable Therapeutic agent. Little's soluble Phuyle; also Little's Chemical Fluid. The new sheep Dip is a sure cure for Scab, Mange and foot rot, kills lice, ticks, and improves the growth and quality of wool; cheaper and better than anything of the kind in use at present, as one trial will prove, costing less than three cents to dip a sheep, mixes readily with, and is used as a dip in cold water at all seasons of the year; has all the advantages of carbolic and arsenic without their poisonous effects. Send a 3 cent stamp for prospectus and testimonials in

ir poisonous electrics. Sent as cells as us and testimonials to

JAMES HOLLINGSWORTH,
210 La Salle St., Chicago, I



### Bee Hives, Italian Bees

Eclipse, New American, Lang-stroth and Simplicity hives com-plete or ready to nail. Full colonia Italian Bees in good movable comb hives Honey Extractors, Bellows Smokers, Bee Books, &c., Descriptive circulars sent free. Address A SNELL

F. A. SNELL, Milledgeville, Carroll Co., Ill.

### To Bee-Keepers.

Many of our subscribers are lovers of Honey and would keep bees enough to supply their own tables at least if they know how. We have made arrangements to furnish all such persons the 32 page monthly Bee-Keeper's Magazine at only \$1 a year (formerly \$1.50) or the Kansas Farmer and Magazine for \$2.00. Also all bee books and articles used in Bee-Keeping at very low prices. The Magazine gives beginners just such information as the must have to make the business successful and profitable. Send the money direct to us and we will see that your orders are promptly filled. For Prices of Extractors, Hives. Smokers, Uncapping knives, etc., Address, Publisher of the Kansas Farmer, Topeka, Kansas.

### RIVERSIBE FARM HERD OF POLANDS Established in 1868.

I have in my herd the sow that took first money and sweep-stakes, and the sow and boar that took first money in their class at Kansas City Exposition in 1878, and the sow, boar and litter that took first premium and sweepstakes over all at the meeting of the Lyon County Agricultural Society in 1878. Thase pigs are all of my own breeding, and are com-petent for record, I send out nothing but first-class pigs. All stock warranted, and shipped as ordered on receipt of money.

J. V. RANDOLPH, Emporia, Kas.

THOROUGH-BRED

# FOR SALE CHEAP.

One bull 5 years old, kind and gentle to handle. No better in the state. Has been shown twice a year and never failed of winning a prize 1 yearling, 2 bull cuives, cows, helfers, and cow calves. Address VINTON ALLEN RECENT & Grove, Puwnec Co., Kas

### Breeders' Directory.

BLUE VALLEY HERD.—Walter M. Morgan, Here-ford Cattle and Cotswold Sheep, Irving, Marshall out y, Kansas. Choice Young Bulls For Sale.

G. B. BOTHWELL, Breckenridge, Mo., breeder of Spanish or Improve dAmerican Merino sheep or Hammond stock, noted for hardiness and heavy fleece. 200 rams for sale.

HALL BROS, Ann Arbor, Mich., make a specialty of breeding the choicest strains of Poland-Ch Surfolk, Essex and Berkshire Pigs. Present prices a less than last card rates. Satisfaction guaranteed. A few splendid pigs, jilts and boars now ready.

OSHUA FRY, Dover, Shawnee county, Kansas, Breeder of the best strains of Imported English Berkshire Hogs. A choice lot of pigs from 2 to 8 months old for sale. Prices to suit the times. Correspondence solicited.

FOR SALE. Scotch and black & tan ratter pups, \$10 cach; shepherd pups, \$15 to \$25; also pointers and sotters. These are lowest prices, All imported stock, A.C. WADDELL, Topeka.

MILLER BROS, Junction City, Kansas, Breeders of Recorded Poland China Swine (of Butler county Ohlo, strains): also Plymouth Rock and Brown Leg-horn Fowls: Eggs, \$150 per 13. Descriptive Circu-lar and Price List free.

#### Nurserymen's Directory.

EE'S SUMMIT AND BELITON NURSERIES, Fruit Trees of the best, and cheapest. Apple Trees and Hedge Plants a specialty. Address ROBT, WATSON, Lee's Summit, Jackson Co., Mo.

WHITCOMB, Florist, Lawrense, Kansas, Catalogue of Greenhouse and Budding Plants sent

MIAMI COUNTY NURSERIES. 11th year, large stock, good assortments; stock first class. Osage hedge plants and Apple trees at lowest rates by car load. Wholesale and retail price lists sent free on applicatioe. E. F. CADWALLADER, Louisburg, Ks.

#### Dentist.

A. H THOMPSON, D. D. S., Operative and Surgeon Dentist, No. 189 Kansas Avenue, Topeka, Kansas,

TEETH extracted without pain, by Nitrous Oxide gas, or laughing gas, at DR. STULTS Dental Rooms, over Funk's Clothing Store, Topeka, Kansas.

#### JAMES A. BAYLES. Lees' Summit, Jackson County, Mo., Has the largest and best Nursery Establishment in the West. Correspondence promptly answered.

### Berkshires for Sale.

I have a few choice pigs to spare. All elligible coord and as good as there is in the state.

W. P. POPENOE, Topeka.

### Shannon Hill Stock Farm



G. W. GLICK,

### BERKSHIRES

We offer for sale a few litters of very choice pigs? the get of such noted sires as imported Mahomet 1979, Gil Blas 2627,—a son of Lord Liverpool—and others, "Sallies", "Et Bridges" and "Miss Smiths" in the herd. Pigs ready to ship now. Also

### SHORT-HORNS,

E. M. SHELTON,

Supt. Farm, Manhattan, Kansas.



### SouthernKansas Swine Farm.

THOROUGHBRED POLAND-CHINAS and BERK-SHIRE Pigs and Hogs for sale, The very best of each breed. Early maturity large growth, and fine style are marked features of our hogs. Terms reasonable. Correspondencesolicited.

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### M. W. DUNHAM

Just Imported 36. Head PERCHEROn-NORMAN HORSES.

**Another Importation** WILL ARRIVE ABOUT MARCH FIRST.



Largest and most complete establishment of the kind in the world.

### More than 200 Stallions & Mares

Imported from best stud stables of France.

Imported from best stud stables of France.

Winners of First Prizes in Europe and America. Awarded First Prizes and Gold Medals at the Universal Exposition at Paris. 1878. First Prizes and Grand Medals at entennial Exhibition, 1876.

The public appreciation of its merits is indicated by the great demand for stock from every part of the country. During the past twelve months, the provinces of New Brunswick, adada, and the states of New-York, Pennsylyania, Ohio, Indiana, Illinois, Michigan Wisconsin. Minnesota, Iowa, Nebraska, Kansas, Texas, Louisiana, Colorado, California, Nevada and Oregon and Utah; Washington and Idaho Territories have drawn supplies from its stables.

10 page Catalogue—finest thing of the kind ever issued, 25 pletures of stallions and maros, sent free en application. M. W. DUNHAM, Wayne, DuPage o., Iff

M. B. All imported and pure native bred an-mials recorded in Percheron-Morman Stud Book

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### THE KANSAS FARMER.

E. E. EWING, Editor & Proprietor,

TERMS: CASH IN ADVANCE.

The greatest care is used to prevent swindling humbugs securing space in these advertising column. Advertisements of lotteries, whisky bitters, and quack dectors are not received. We accept advertisements only for cash, cannot give space and take pay in trade of any kind. This is business, and it is a just and equitable rule adhered to in the publication of The TO SUBSCRIBERS.

Subscribers should very carefully notice the label stamped upon the margin of their papers. All those marked 47 expire with the next issue. The paper is al 47 ways discontinued at the expiration of the time paid for, and to avoid missing a number renewals should be made at once.

#### The Advantages of Reading the Kansas Farmer.

We are in frequent receipt of letters informing us of the advantage derived from some article probably a brother farmer's letter,--the writers have seen in the KANSAS FARMER; how the information imparted by it has saved them from considerable loss in some proposed experiment in farming not adapted to soil and climate, or the profit and satisfaction they have reaped from having the experience of one who has preceded them in cultivating a certain crop or in doing some necessary work on the farm. A single letter or article is often the means of proportion each man is to own of the animals, saving the parties more money,-many times than the subscription price of the FARMER; the season, or any length of time agreed upon, and yet thousands elect to grope along in the what the compensation for such care and feed dark-hit or miss, generally miss-without a shall be. One bull and one boar will serve half ray of light from the lamps of others who have a dozen farmers for three years, and at the end gone before them. And they say it is all ow- of that time will sell for as much as the animals ing to inability to spare the money, the amount of a year's subscription. The same species of the expiration of that period will be worth per reasoning could with as much plausibility be head a hundred per cent more than the same applied to plowing the ground before seeding. number of animals will be, bred from scrub A farmer could save a great deal of expense by males. When the original males are disposed planting the seed without preparing the soil. of others can be purchased with the money the He would undoubtedly save the cost of plowing. old stock has been sold for, and new blood of That would be a clear gain in dollars, but he improved breeds being infused into your herds He has tried both ways and succeeded best with would lose by not reaping much grain. The will give them size, health, stamina and beauty, cases are exactly parallel. Both save a few dol- which will be a surprise, gratification and profit lars in the first place but lose in the end for the which you scarcely dared to anticipate at the want of information and a properly prepared beginning. This is simple, practical, and the

The KANSAS FARMER costs no former a single cent for subscription, because it raches him daily occurrence, and which will put money how to get out of his business many times more into the pockets of every farmer who has the than its price every year, and which he would good sense and enterprise -- as little as it renot get without the information its pages im- quires-to attempt it. The thing is so selfpart. No farmer is too poor to subscribe for evidently a profitable move, and the risk so the Kansas Farmer, unless he is too poor to small as to be unworthy to be classed among own a plow.

### The Farmer as a Politician.

Some farmers that we have known were great politicians-at least they thought so. They were willing to sit on the fence or a rock at the blacksmith shop while the team was presumably resting or being shod, and discuss "politics" in the most earnest, excited and positive \$100 or \$150 and the improvement in your manner, till, like the schoolmaster in Gold- stock will pay principle and interest the first smith's Deserted Village, the bystanders wondered "How one small head held all he knew." But when the much talking of these politician farmers was analyzed, it was in defence of their party and in advocacy of some lawyer or other noted professional office holder whom they had probably never seen. Not a single view or argument from a farmer's natural standpoint was taken. It was all from somebody else's standpoint. This is all wrong. Farmers should all understand politics and be well informed on questions of politcal econmy, but they should study every political question from the farmer's standpoint. What influence which no farmer is justified in subjecting himor bearing will this or that measure have upon self and family to. This is emphatically a stock agriculture? is the very best starting point for every farmer. It does not matter what party he may be allied with, if the course of investigation proceeds from this starting point there will be little diversity of opinion among farmers belonging to different political organiza-

The object of government is the greatest good to the greatest number, the protection of life and property, the encouragement of houest industry and morality, and the repression of dishoneity and idleness: an economical administration of public affairs, and a minimum rate of duct. Raise annually the largest and best crops taxation. There are a great many vicious laws of that by using none but the best thorough bred placed on the statute books by corrupt legisla- males. In this learn to take the first step in tion and mercenary legislators, which are used, and intended to be so used, in squandering the public money, but by far the most prolific source of waste and corruption is the class of professional politicians which administer and construe the laws. They are always construed in the interest of large fees and expensive litigation, letter from Gen. J. H. Rice, of the Miami Rein the interest of high taxes and circumlocution, of endless delays and the multiplication of expenses, which means high taxes for the general or public treasury, and still higher taxes in the matter of legal fees for every man to pay who has any public business to transact. There has a class of men grown up under our system of government who are barnacles on the body politic, clogging the transaction of business while they devour the substance of industry. This class like the filth of the Augean stables should be washed out, and the many useless lic affairs pruned off to the great saving of taxfarmer being the main beast of burthen for inefficient and dishonest, it is the part of good

is absolutely necessary for farmers to study political questions from a farmer's standpoint-And the first step in this new school of politics should be taken by sending their best representatives, practical farmers of sterling integrity and intelligence to the legislature. The time is at hand when they should be about this work preparing material for next winter's legislature. The professional politicians and shoals of lawyers who swarm in every town are busy as beavers arranging their plans, and selecting men for farmers to vote for, who, when elected are expected to attend to the interest of every other class but that of farmers.

### Secure Thorough Bred Males.

Now is the time to secure bulls, bucks, and pigs for grading up your domestic stock. The use of scrub males in your stock to breed from is a serious injury. The most of the young animals on the farm are brought forth in the spring. Males purchased now will be put to immediate use and your next season's crop of live stock, if the offspring of thorough bred males, will be worth, at six months old, fifty to one hundred per cent more than if you use scrub sires. There are several public sales of thorough bred stock advertised in the FARMER this week. Look over them and determine what you want, and if you do not feel able to invest in a whole animal confer with one or more neighbors and buy in partnership. Enter into a written agreement before purchasing, what which one is to take care of and feed them thro' originally cost. The stock of each farmer at first step in co-operation which can be taken with as little risk as any business operation of risks, that the marvel is that every farmer is not

"Can't afford it!" The men who give this reason will be found ready to mortgage their farms for the loan of a \$1,000, for eight to twelve per cent and give a heavy bonus on the first year.

eager to form such an arrangement.

If you have not the ready cash to invest in thorough bred stock mortgage the farm for year. A hundred dollars each contributed by half dozen farmers will supply them with blooded males, except horses, to answer their purposes for three years. Such a departure from the venerable, old rotine of risking everything on a crop of wheat or corn and buying costly farm machinery on credit, then in a state of chronic suspense, watch the sky and hope for rain, and keep repeating the stereotyded phrase "If rain comes within-time we are all right," would be a step worthy our boasted advance in intelligence. This hoping for propitious weather is a ghastly comfort, and a state of suspense country, and because it will grow la grain is no argument that grain should take precedence of all else. The shipper, the railroads and millers make handsome profits on the grain crop, the farmer gets a mean, hard living, and suffers all the anxiety resulting from the fickle humor of the seasons. With stock he can condense into a portable form the grain and grass of his farm and the adjacent over the west and bringing the market virtually to Topeka or Larned councils, M. P. A. to every farmer's door for live stock and its proco-oporation and at no distant date the whole country will be "yours to command."

### Letter from General Rice.

publican, giving an account of a visit to the Agricultural College and other matters. Gen. English consumer. And let us not forget that Rice is canvassing the state as the general it is not so much the English farmers of the coarse feed through the winter. agent of the Western National Fair Association, continent. Holland, Denmark, Switzerland, and is leaving no stone unturned to rouse a spirit of emulation among the counties in forming county displays for the fair, which will be wheat from us. America, for nearly forty years, held at Bismarck grove, near Lawrence, com- has sent vast quantities of pork to England, mencing on the - day of September next. No better man could have been selected for the other meats fall into insignificance. The Enposition of general agent; full of enthusiasm, full of earnest work and possessed of great natuclogs which cumber the administration of publar ral force of character, the magnetism of the man stirs up public interest for the great agri- years we have been building up this business es, of time and vexation to business n en. The cultural display, where ever he appears. His report from Riley county is very flattering, and and have found it a permanent success. The borne by the hand always before milking, using bearing the heavy loads of taxation, which is he makes a strong and earnest appeal to Shawconsumed very largely in supporting the idle, nee county not to be found lagging behind other and less favored counties in this noble emulasense and business principles for the chief pay- tion. The exhibit by counties of farm products ers of the taxes to be the chief disposers of at Bismarck next full will be more than a bird's

bilities of Kansas; it will be an epitome of the corn crop, which will give success to the Ameriwealth which will be creditable to the county the exportation of cereals will do. The deof the capital, and attractive to strangers who mand for these products the coming year will of Kansas productiveness. The millions of will be much larger, as business is improving. knowledge of the latent riches of Kansas soil done it well, as the enterprising, intelligent and this potent agency is the rich fruit of the prodigal sowing. And now the world desires to necessities have been almost entirely dispensed promise; and the exhaustless expedients and demand and a larger home consumption. resources of her people are preparing to confirm thousands who will visit the Great Western may expect a larger consumption of articles National Fair next fall. The prospective emi- which are the products of the artisans of Eugrant will there sample the state by the various county displays collected, and choose his loca- how successful we are in competing with Ention as the merchant decides his purchase of gland in foreign markets, we are prone to forget the cargo of grain by the sample placed for his how successful England is in competing with inspection on the tables of the exchange. These us in our own market. For the past few years county displays are the last and will be the the balance of trade has been in our favor, and most perfect advertisement, of the agricultural gold has been flowing into the country and has capabilities of the state, spread out as a sectional set the wheels of our own industries in motion; map composed of the products of the soil. No the wars and necessities of Europe have been geographer has ever been able to publish such the salvation of America. But the tide has a map of the counties, of this or any other state, turned-gold is now flowing back, the balance as the people of Kansas have in their power to of trade is against us, and now is the time for construct by the co-operative device of county those who desire the permanent prosperity of exhibits. Let Shawnee show a collection the country to devise means to stay the outlet. worthy of the capital.

### Row.

A correspondent writes, "Say to that correspondent who wants to plant hedge seed where the fence is to stand, don't try it, as it is not the best plan. Raise the plants and transplant. the latter.

#### Kidd's Great Combination Sale.

We have received Mr. P. C. Kidd's catalogue of his great Combination Sale which commences at Kansas city, May 5th. Mr. Kidd will auction off some of the finest stock in Ken- ten acres of such fodder feed? tucky and Missouri at this great sale, comprising Short-horns, Poland China logs and Cotswold sheep. As an auctioneer of blooded live stock, Mr. Ktdd is without a rival in the west.

### Public Sale of Short-Horns.

1. C. Stone, Jr., of Leavenworth, Kas., advertises public sale of short-horns in the FARMER. Mr. Stone has one of the finest herds in the west, and will offer some of his best animals at the sale next month. This will be a rare chance for farmers to supply themselves with breeding animals.

Messrs. Childs, Alexander and Smith, Independence, Mo., advertise public sale of shorthorns, to take place also next month, which offer a rare opportunity for procuring animals from which to grade up herds.

P. C. Kid holds his annual combination sale of blooded stock, commencing May 5th, at Kansas City stock yards. These sales are celebrated for the fine stock which changes hands

THE FIRM OF MOSELEY, BELL & Co., whose extensive advertisement is displayed on the last page of the FARMER, have recently estab. green, or soiting feed when the grass is dry and lished their headquarters at Kansas City. These gentlemen mean business, and as will be When the stalks begin to ripen which will be seen by their advertisement are handling some indicated by the blades commencing to die next of the best makes of agricultural implements and machines. Give them a call or send for circulars.

the best and cheapest societies giving to its or straw. Such shocks will shed rain and members of both sexes equal privileges for im- the fodder will keep better than in a mow or provement, and securing to each of its members in case of death \$2,000, write to E. J. Sirange. Packing houses are springing up all mons, D. N. S., M. P. A., Topeka, Kansas, or

### A Meat Product.

The wisdom of converting the corn and grass of the west into meat for the European markets is well put in the following article which we ex- and allow a pound a day for every hundred the uncertain dependence of the wheat crop per day for an animal whose live weight is one the writer continues:

we may expect a good market, provided they are made in a manner to suit the taste of the than you think the animals will consume, and and Italy send large quantities of butter and quarter of her udder which is diseased. cheese to England, and some of them buy The case should have had immediate attention. compared with the exportation of which all glish navy is victualled with American pork and mess beef, and her merchant vessels receive their stores from the same source. For forty of supplying the English market with pork, and bathe the udder with water as warm as can similar shipment of beef, but in this article we the ointment which remain on the surface. Jersey by Mr. W. D. Lowary, a short time ago. shall have a formidable rival in Australia.

them. In order to be fitted for this purpose it eye view of the agricultural wealth and possi- products already mentioned. We refer to the sary during the continuance of the disease.

youn; giant's agricultural resources, and we can farmer, as against all competitors in the heartily join the general in his earnest exhorta- English market. Converted into butter, cheese, tion to the active spirits of Shawnee to put pork, beef or mutton, it can be transported at forth their efforts to present a display of farm small cost, and does not impoverish the land as gruel and give. visit the fair to confirm by ocular demonstration be little, if any less, than those of the years the wonderful stories they have heard and read which are past, and the probabilities are that it books, reports, paraphlets, charts, maps and In England the laboring classes last year eat papers which have been scattered broadcast little butter, cheese, beef, or even pork, but over the world to enlighten the public with a now, being employed at remunerative wages, they will become heavy consumers of these and Kansas climate, have done their work and products. There is still another consideration which we must not forget. During the past cultivated population, attracted to the state by few years business has been dull with us. Articles which were considered a short time ago as see a practical, visible proof of this written with, and for these we may expect a returning

While we look for a larger home consumpthose promises by ocular demonstration to the tion in many of the products of the soil, we rope; and while we sometimes are led to boast Cotton alone cannot do it. Cotton and wheat, tobacco and corn, hitherto have failed in accom-Don't Plant Hedge Seed in the Hedge plishing this object, but these products in a more concentrated form may do much to stop this leakage, and to this end farmers ought to bend their energies.

### Fodder Corn-Garget.

How would corn do in this section, sown broadcast or in drills, for stock feed? Would plant, and save it? How many cattle would as mest people make corn bread. It will be

I have a cow four months calved. She has a flag or cake in udder, and one text gives only a few drops of a thin, yellow milk. What would you recommend for bringing about a reaction? I bought the cow a few days ago, and drove her and calf four miles rather briskly. Calf still suckles the cow. The cow gives about three quarts of milk morning and evening, besides feeding her calf. Would you advise weaning the calf; he is strong and healthy, and can eat hay or grass?

By answering the above you will much oblige

A SUBSCRIBER. Wabaunsee Co., Kan.

Sowed or drilled fodder corn is a very popular feed in some sections of country, both as a soiling crop and to preserve for winter forage. The corn may be broadcasted any time in the month of May and harrowed in. About three bushels to the acre of seed will be thick enough. Drilling in rows three feet apart and about six inches or closer between the stalks in the row is probably the better way. The crop can then be cultivated as circumstances or time from other work will admit. This makes excellent old in the latter part of summer and early fall. When the stalks begin to ripen which will be indicated by the blades commencing to die next the ground, if cut with a machine, bound in small sheaves, and set up in open shocks, it will cure, when large shocks should be formed of cure, when large shocks should be formed of cure, when large shocks should be formed of cure. The business revival and new era of prosperity which is now fairly inaugurated, is in keeping with the increased health and happiness seen all over the land, and is one of the results obtained from the introduction of Warner's Safe Kidney and Liver Cure, "The If you wish information in regard to one of top with a rope either of twine or twisted hay large stack.

The number of animals ten acres of such fedder will keep depends on so many contingencies that it would be difficult to approximate it. A hundred per cent. in the quantity of fodder after the crop is secured. Ascertain as nearly as possible the number of tons of cured fodder, There are, however, two products for which per cent for waste and other contingencies. It is safe to always provide more winter forage then feed a liitle meal or corn along with the

The probability is that your cow will lose the Wean the calf, as its rough treatment of the udder will coutinue to aggravate the inflamed parts; bathe with warm water before each milking and when dry annoint with mercurial ointwell rubbed in with the hand. Give the cow light, cooling feed, of which bran mashes should constitute a part. Keep the animal low in flesh while the inflammation lasts. Wash Keep the injured parts clear by gently drawing

The following is a good recipe for a mild purgative drink :

Epsom salts 1 pound, powdered caraway seed one-half ounce. Dissolve in a quart of warm

### Rice Corn.--Its Value as a Kansas Grain

We are still having it dry and wheat fields look badly. A good deal is past help, yet not one-half of the crop is ruined-about one-third is dead. The early plowed ground (and not too deep) looks the best, although a great many farmers are going east to raise a crop, fearing that we will not have rain enough; others are hard at work and putting in a large screage. A good deal of spring wheat has been sown, and so far promises well. A large area will be plan ed to Amber cane this season, as the prospects are good that a large sorge-sugar factory will be erected at our place the present season. In fact, they will commence to make sugar within ten days, mainly an experiment to get their hands in, as they have a lot of fine, wellgrained syrup on hand to start with. They are investigating as to which process will give the best result, as every man has a new process and patent pans for sale. Not less than twenty have come to light, and they are all the best, and if they can make one-half of the sugar represented, Kansas can be the richest state in

I see W., of Smith county, Kansas, gives a vivid description of the qualities of Rice corn. I take issue with him and say he is off wrong, as he does not raise any substitute for it, as it is as much better for horses than corn, as oats is better than corn. It is not so hot a feed, but has more muscle-forming constituents for a horse to work on. I raised about five hundred bushels last year, (in the drouth), and it averaged from twenty to sixty bushels per acre. I commenced to feed it to my team when, it was soft, just out of the milk, and my horses gained from the time I commenced until they were hog fat, and they had but five days' idle time up to January 1st, working hard all of this time. It keeps a horse lively. As to hogs, I fattened seven head, and tried them repeatedly with both corn and meal, and they would not eat corn or meal when Rice corn or Rice corn meal it be advisable for me to sow broadcast? Such was placed side by side. Again, my horses feed is wanted for fattening stock in the fall would not eat corn until all the Rice corn was and winter season. If you approve of such a eaten up, when fed together. As to the cuisine way of planting corn, what is the best time to of the grain, it has too much starch to be used heavy but make good biscuit or batter cakes, The Rice corn will take the lead of all kinds of grain for the west, as there is no use for stallscutters. A harrow, when the stalks are dry and frozen, breaks them easily. As sown fodder it beats them all, casting pearl millet and corn in the shade, parties here having raised twenty tons from six pecks of seed drilled in the past season. Last, but not least, the stalks will make a fine syrup of lighter color than the Amber cane. If every new settler in the west would plant ten to fifteen acres of Rice corn, he would have lots of horse feed, and would not go back east among his wife's people, to escape starvation, as he can grow Rice corn whether the season be wet or dry.

S. G. DICKINSON. Larned, Pawnee Co., Kansas.

### Important to Book Agents.

Dr. Manning's long looked for object teaching Stock Doctor and Live-Stock Encyclopedia, with 1,000 pages, 400 illustrations and two charts, is announced by N. D. Thompson & Co., publishers, at St. Louis, Mo. It covers the subjects of Horses, Cattle, Sheep, Swine and Poul-try, in health and disease, and is a work of such practical character and value as to be in great lemand. A rare chance for agents

### Better Times.

ner's Safe Kidney and Liver Cure, "The changes wrought by this remedy," says Rev. Dr. Harvey, "seem but little less than miracu-

### Letter From Illinois.

It has been so long since I wrote a letter for the old substantial FARMER, that I feel almost wet or dry summer may make a difference of a ashamed to make my appearance. But the FARMER comes so regularly each Saturday, produced. You can better make this estimate that I feel constrained to renew my acquaintance with its columns.

The farmers are grumbling now over their cerpt from the Cultivator. After pointing out pounds of live stock; viz., ten pounds of fodder them for so doing, and grumble as much as any fall wheat, which is very poor. I cannot blame when I think how I worked last fall, plowing thousand pounds. To this estimate add fifteen and harrowing and drilling. Considerable spring wheat has been sown, and looks well at prèsent. Oats are all sown; much drilled in this year. Drilling distributes the grain more evenly and covers it more uniformly than broadcast.

Everything needs rain very badly now. We had a dry summer last year, a dry winter and a dry spring this year. On account of scarcity of feed many cattle are in poor condition. For the same reason many have died during the winter. Prospects for fruits of all kinds are very flattering. Nearly all the peach trees were killed during the winter of 1878-79, but

those remaining are full of bloom. Some few horses are suffering from distemper; chickens dying with cholera. Hogs and sheep healthy. Poland Chinas and Berkshires are the principal breeds of hogs raised. past year has been eminently successful in a a little castile soap to remove any portions of Some Jersey Reds were imported from New

Wheat is \$1 to \$1.10; corn and oats, 26c to America grows, to a perfection unknown in the milk three or four times a day. Keep the 28c; rye, 40c to 45c; barley, 60c to 85c; potaany country, a crop which is the basis of the bowels open by light purgative drinks if necestoes, 75c; butter, choice, 18c; eggs, 6c; chickens, per doz., \$1.75; fat hogs, gross, \$4; sheep,

make homes in Kansas. A good many of them settled near Great Bend, Barton county. I wonder if any of them are subscribers for the JOHN M. STARL.

Camp Point, Adams Co., Illinois.

#### More Improved Stock for Kansas.

We find the following in the Indiana Former, which, figuratively speaking, may be termed another block added to the great live-stock structure that is being reared in Kansus:

"Mr. J. T. Smith, Lincoln, Kansus, formerly of Anderson, Ind., in February, while on r visit to this state, bought from Mr. C. L. Henry, of Anderson, seven head, and of Dr. Stephenson, of Pendleton, Ind., two head of Shorthorns; from Messrs. Rogers & Phillips, of Lebanon, Ky., a Jersey cow and calf, and a Jersey bull of A. Garretson, of Pendleton, in all nine Short-horns and three Jerseys. These are all registered stock, of the best and most ashionable families. Mr. Smith is making an excellent start in stock, at his new home, the Cottonwood Glen Farm, Lincoln, Kansas. He is an honest and careful breeder and will make stock farming a success." "Mr. J. T. Smith, Lincoln, Kansas, formerly

A breed sow is usually at her best, as a producer, in the number and quality of pigs as well as in the secretion of milk, when she is from two to three years old. The number of pigs dropped at a litter will usually increase with each successive litter up to the third or fourth, provided the sow is put to breeding so as to drop her first litter when she is about a year old, as is the custom with most breeders of swine. After the sow reaches four years of age, her powers of gestation usually grow weaker, and she is much less liable to save the pigs that may be dropped. Like all other general rules, there are exceptions to this, but under ordinary circumstances we would not recommend the keeping of broad sows by farmers who are raising hogs for the general market after they reach four years of age. The professional breeder of pure-bred stock may often find it to his interest to keep a stock may often find it to his interest to keep a favorite sow, and give her special attention so long as she will breed at all, because the exceptional value or reputation of her produce will justify him in keeping her for returns in number, which with ordinary stock would not repay the cost of food, but such cases rarely occur with the general farmer who breeds and feeds pigs to make pork.—Nat. Live-Stock Journal.

RUSSELL, April 10 .- Weather here is very dry. The winter wheat is killed out badly, so that there will not be a fourth of a crop; hogs sold close, also wheat is nearly all sold. Immigration is light. This is a true statement as I have been over the county in the past few days.

P. J. WARNER.

AURORA, Cloud Co. April 7 .- The weather in this section of Kansas during the first two weeks of March was very pleasant, and so warm until the middle of the month that the fruit buds started, and fears ar entertained that peaches especially, are all killed. There are quite a number of orchards here which would have yielded fruit this year. We had a few pleasant days again, and farmers were busy sowing oats, plowing for corn, and talking of planting soon, when there was another change in the weather on the 26th and 27th. This time it was clouds of dust which fell instead of snow. On the 26th, in the af-ternoon, the wind came from the southwest and brought clouds of dust from that direction, and just at night it changed to the north, and we had any amount of dust again. During the night, and all day the 27th the gale was terrible hard. Some of the old-est settlers here say they never saw the dust blow so before; it was a sore trial to neat housekeepers-as it was impossible to keep the dust from sifting through the roof and settling on everything.

A few weeks ago a man in this township had the misfortune to lose his team of horses by the burning of his stable, and to-day there are eight or ten teams at work doing volunteer work, plowing his land for corn. At least half the plows running are sulky plows. It looks as if there was some charitable feeling among farmers here, to thus help an unfortunate member of community. The ground is in good condition for plowing and setting timber. Some have set out large extents of hedge and shade trees this

of any kind among stock. Some have lost their chickens with cholera which seems to be quite bad here at times.

Pork is worth \$3.00 to \$3.25. Potatoes are scarce and command a good price. Butter, 20c; eggs, 8c; and live chickens 41/4c per lb; good cows from \$29 to \$25; good work teams are scarce and in good demand.

PARSNIPS.-Bo il until tender, scrape, cut lengthwise, and put into a saucepan with three tablespoonsful of butter, a little pepper and salt, and a tablespoonful of chopped parsley. Shake until the mixture boils, take up the pieces carefully, and pour the butter over.

PRESSED VEAL .- To three pounds of veal allow one-half pound of bacon. Chop both until very fine; season with pepper and minced onion and press into a deep baking dish and bake slowly two hours. . Serve cold.

PUFF OMELET.-Beat the yelks of eight eggs and the whites of four until very light, stir in a teacup of cream, in which a tablespoonful of flour has been mixed, and season with salt and pepper. Melt a tablespoonful of butter in a baking-pan, pour in the mixture and set the pan in a hot oven. When it thickens spread over the remaining whites beaten to a froth. Return to the oven and bake a delicate brown. Slip on to a large platter and serve at once.

### Women As Lawyers.

Though old Mr. Fogy has long questioned women's fitness to practice law, and her opinions concerning legal matters, no one has ever questioned her opinion concerning Dr. Pierce's Favorite Prescription. For women freely affirm that the Prescription is a positive cure for those "dragging-down" sensations, and the many diseases and weaknesses peculiar to their sex. The Favorite Prescription is sold by all draggists under a positive guarantee.

choice, \$3; choice shipping steers, \$4.50. physicians without avail for disease of the liver choice, \$3; choice shipping steers, \$4.00. physicians without avail for disease of the liver Horses are scarce and high, ranging from \$100 and uterus. Some time ago I commenced the to \$125. Milch cowe are plenty and cheng; ery, heing at the time confined part of the time from \$25 to \$30. Many have gone from this neighborhood to make homes in Kansas. A good many of them bottles of each of the medicines. With many, attled near Great Bend, Barton county. I many thanks, I am, very respectfully, MARY E. GRACE.

The sale of lands during the month of March, by the Kansas Division of the Union Pacific Kailway company, formerly Kansas Pacific Railway, were 16,474 acres.

### "Calf Boots cheap at Skinner's."

#### Is It Possible

That a remedy made of such common, simple plants as Hops, Buchu, Mandrake, Dandelion, etc., made so many and such marvelous and wonderful cures as Hop Bitters do? It must be, for when old and young, rich and poor, paster and doctor, lawyer and editor, all testify to having been cured by them, we must believe and doctor to longer. See other column.

Wilbor's Cod-Liver Oil and Lime .-The friends of persons who have been restored from continued consumption by the use of this from continued consumption by the use of this original preparation, and the grateful parties themselves, have, by recommending it and acknowledging its wanderful efficacy, given the article a vast popularity in New England. The Cod-Liver Oil is in this combination robbed of its unpleasant taste, and rendered doubly effective in being coupled with the Lime, which is itself a restorative principle, supplying nature with just the assistance required to heal and restore the diseased lungs. A. B. Wilbor, Boston, proprietor. Sold by all druggists. druggists.

We have examined the American Popular Dictionary advertised in our columns, and find it a good work. The definitions are brief, but very skillfully put, and there is a great deat of valuable and helpful material in the appendices. It is certainly a valuable book, and it is very cheap for the price asked for it. We feared there might be some humbug about the advertisement, hence the examination of the book We understand the parties are responsible. From Chicago Interior, Jan. 29th.

#### Malaria Destroyed.

G. A. J. Gadbois, of Brookville, Canada, certifies that he was prostrated by a malarial disease contracted in Texas, and was quickly and completely cured by the use of Warner's Safe Pills and Safe Bitters. He adds: "I shall never travel in that climate without your Safe Pills and Bitters as a part of my outht."

#### See Skinner's Shoe called "Economy."

"Brown's Bronchial Troches," when allowed to dissolve in the mouth, have a direct influence on the inflamed parts, allaying pulmonary irri-tation, and giving relief in coughs, colds, and the various throat troubles to which singers and public speakers are liable.

#### How to Get Sick.

Expose yourself day and night; eat 100 much without exercise; work too hard without rest; doctor all the time; take all the vile nostrums advertised, and then you will want to know

HOW TO GET WELL. Which is answered in three words—Take Hop Bitters! See other column.

Mr. T. K. McGlathery of Topeka, has made arrangements to have his horses, Royal George, an English draft horse, and Kicapoo Ranger, at Silver Lake, Kas., the present season on the first three days of each week.

### Plow Shoes at Skinner's, "212."

The Marsh ague cure never fails. Price only O cents - liquid or pills.

### Wonderful Success.

"For curing severe colds and hard coughs

"For curing severe cous and nard coughs your Golden Balsam is a success.—[S. Lockerby, Belle Plaine, Kansas.
"Your Golden Balsam has cured my cough; also my wife's. We think it is the best throat and lung medicine in the world."—[N. G. Row-

dition for plowing and setting timber. Some have set out large extents of hedge and shade trees this spring.

Marsh's Golden Balsam is for sale by Swift Winter wheat looks very well, early sown looking the best at present; oats are up nicely. Stock of all kinds doing well, as far as we have heard; no disease

### A Good Piano.

Frank Leslie's Illustrates Newspaper silys: A good piano at a fair price is one of the wants of the times. An instrument that is durable, that is substantially made, and has all those qualities of tone which make a first-class piano, can be had from the Mendelssohn Piano Co., New York, from \$150 to \$400. For over thirty-eight years their factory has been producing pianos, and adopting every new invention which has proved itself to be valuable. They can be compared by an expert with the instruments of the highest name and fancy instruments of the highest name and fancy perice, and the result is surprisingly satisfactory. The piano is warranted for five years, and no purchaser has ever made a complaint. From personal knowledge and critical examination we can recommend any one to send for a catalogue to the above mentioned manufacturers.

### Eight and nine per cent. interest on farm loans

in Shawnee county.

Ten per cent. on city property.
All good bonds bought at sight.

For ready money and low interest, call on A. Prescott & Co.

### PRESCRIPTION FREE

For the speedy care of Seminal Weakness, Loss of Manhood, and all disordens brought on by indiscre-tion or excess. Any Druggist has the ingredents' Addioss DAVIDSON & CO., 78 Nassau St., N. Y.i

### Market s.

Markets by Telegraph, April 20.

### New York Money Market.

GOVERNMENTS-Quiet. RAILROAD BONDS-Unchanged and without es

many diseases and weaknesses peculiar to their sex. The Favorite Prescription is sold by all druggists under a positive guarantee.

Pittsburgh, Pa., March 14th, 1879.

Dr. R. V. Pierce, Buffalo, N. Y.:

Dear Sir: I was treated by four different

MAILROAD BONDS—Unchanged and without especial feature.

STATE SECURITIES—Neglected.

BAR SILVER—81 13%.

MONEY—Down from 6 to 3 per cent. per annum. closing at 4 per cent.

FIRME MERCANTILE PAPER—5 to 6 per cent. STERLING EXCHANGE—B, B., weak; 69 days, \$4 st

### Coupons of 1861... New 5's... New 4's (registered)... Compone New 4's (registered)... PACIFIC SIXES-95; new 128... MISSOURI SIXES-9108. T. JOE-9104.

#### St. Louis Produce Market.

#### St. Louis Live Stock Market.

St. Louis Live Stock market.

Hoos-pull; Yorkers and Baltimores. \$4 10 to 4 20; bacons, \$1 2 to 4 25; butchers to select, \$4 20 to 4 50; receipts 5,900; shipments, none.

CA PTLE—Butchers' grades settive and steady; steers \$3 75 to 4 10; cows and helfers, \$2 50 to 3 25; shipping grades slow and weak; fair to choice heavy, \$4 25 to 4 50; exporters, \$3 90 to 5 00; feeders, \$3 75 to 4 10; stock ers, \$3 00 to 3 25; Colorado steers, \$3 50 to 4 00; receipts, 2.100, shipments, 300.

SH EEP Supply large and demand good for best grades; fair to good matters, \$4 50 to 6 00; choice to fancy heavy, \$5 25 to 6 00; to 6 00; receipts, 4,500; shipments, none.

### Liverpool Market.

BREADSTUFFS-Market heavy. FLOUR--11s to 13s. WHEAT--Winter, 10s 3d to 11s: spring, 9s 10d to 10g

d, CORN—New, is 9d to is 614d. CHEESE—72s. OATS—6s, 6d PORK—6 's 6d. BEEF—73s. BACON—Long clear middles, 84s; short clear, 25s 6d. LARD—Cwt, 67s 2d.

### Kansas City Produce Market.

Wileat—Reccipts. 3,778 bushels; shipments. 1,217 bushels; in store, 25 3.5 bushels; market weaker and lower; No. 2, 31 0.3 bid; No. 3, 91c; No. 4, 92c. CORN—Reccipts. 6,945 bushels; shapments. 4,742 bushels; in store, 123,415 bushels; shapments. 4,742 bushels; in store, 123,415 bushels; market firm; No. 2 mixed, 2834c; No. 2 white mixed 30 ½c. OATS—No. 2, 25c bid. RYE—No. 2, 25c bid. RYE—No. 2, 62c asked, BARLEY—Nominal. EGGS—Steady and unchanged at 7½ per dozen. BUTTER—t hoice, steady at 18 to 29c.

Kansus City Live Stock Market. CATTLE—Receipts. 76t: shipments, 396; market quiet: native shipping steer, averaging 1,540 pounds, sold at \$4.60; butchers' steers, \$3.50 to 4.60; stockers and feeders, \$6.00 to 3.75; common, \$2.50 to 3.50.
HOUS—Receipts, 677; shipments none; market weak and 10c lower; sales ranged \$3.0 to 3.95.
SHEEP—Receipts, 45; shipments, none; market steady and unchanged.

### Chicago Produce Market.

FLOUR—Nominally unchanged.
WHEAT—In fuir demand and lower; much depresed; No. 2 red winter, \$1.08; No. 2 spring. \$1.08\(\frac{1}{2}\) (ash; \$1.08\(\frac{1}{2}\) (ash; \$1.08\(\frac{1}{2}\) (ash; \$1.00\(\frac{1}{2}\) (and \$1.00\(\frac{1}2\) (an 1 08½ cash; \$1 0½ May; \$1 05½ June; \$1 00½ July; other grades nominal.

\*\*FORN—Active but lower and very heavy; \$4½ to \$4½ cash; \$5½c May; \$5½c June; 35½c July; CATS—Dull, weak, lower and heavy; 28 to \$28½c cash; \$29½c May; 283 to \$28½c June; 27c July.

RYE—Steady and in fair demand; 71c.

BARLEY—Firmer; 79c.

PORK—Dull, weak and lower; \$9 40 cash; \$9 45 to \$47½ May; \$9 57½ to 9 60 June; \$7 70 July.

LARD—Dull, weak and lower; \$6 57½ cash; \$6 62½ June; \$6 57½ July.

June: \$6 67% July.
BULK MEATS—Easier: shoulders, \$3 90; short ribs, \$6 00; short clear, \$6 35.

### Chicago Live Stock Market.

HOGS—Receipts, 18,000; shipments, 4,500; market opened firm and ruled fairly active; closed dull and weak; some common unsold; mixed packing, \$400 to 425; choice heavy \$4 30 to 455; light \$4 10 to 445; choicy 440.

4 25; choice neary 55 of the homests, 2,200; market slow but not quotably lower desirable lots steady; common to medium low; shipping, \$4 00 to 5 20; butchers, scarce and steady; common to good, \$2 00 to 50; butchers, \$2 80 to 3 90.

3.75 RP—Receipts, 400; shipments none; market steady, western, \$4 40; good to choice, \$5 75 to 6 00.

### St. Louis Wool Market.

Old: Tub-washed—choice 60 to 62c, medium 57 to 5ec, low and dingy 58 to 55c: Unwashed—medium 38 to 39c, coarse 20 to 33c, fine 28 to 30c. Burry, black and cotted, 3 to 10c per B less. Market quiet.

### Chicago Wool Market.

Tub washed bright 58 to 60c per lb; do dingy and coarse 50 to 55c; fleece washed medium 55 to 58c; do fine 48 to 53c; do coarse 48 to 53c; unwashed medium 40 to 42c; do coarse 33 to 35c; do fine bright 30 to 34c; do heavy 25 to 30c; bucks' fleece 20 to 22c.

Topeka Produce Market.

Grocers retail price list, corrected weekly by J. A. Lee Country produce quoted at buying prices.

t		
N	APPLESPer bushel 3.0	n
,	BEANS-Per bu-White Navy 1.	
۱	" Medium L.	
,	" Common 1.	
	BUTTER-Per lb-Choice	
	" Medium	
	CHEESE—Per lb	
	EGGS—Per doz—Fresh	
	E. R. POTATOES—Per bu	
	P. B. POTATOES—Per bu	
•		ï
3	ONIONS-Per bu. 2.6	8
	ONIONS—Per bu. 1.50@1	•
1		
1	Topeka Retail Grain Marvet.	
•	Wholesale cash prices by dealers, corrected weekl	3
20	her Udana & Bank	

by Edson & Beck.

WHEAT—Per bu. No. 2...

" Fall No. 3...

" Fall No. 4...

CORN—White...

" Yellow

OATS—Per bu...

BARLEY—Per bu...

BARLEY—Per bu...

FLOUR—Per 100 lbs

" No. 2...

" No. 3...

" No. 3...

" No. 4...

CORN MEAL...

CORN MEAL...

CORN CORD...

CORN & OATS...

BRAN...

SHORT...

#### Denver Market. FLOUR, GRAIN AND HAY.

HAY—Upland, 23 to 25; second bottom, 21 to 22; bottom hay, 18 to 20.

FLOUR—Colorado, 3 30 to 3 50; Graham, 3 00 to 3 25.

MEAL—Belted corn menl, 1 60.

WHEAT—2 00 to 2 15 % cwt.

CORN—1 15 to 1 2° f cwt.

OATS—Colorado, 2 00 to 2 25; state, 1 85 to 2 60 % cwt

BARLEY—1 75 to 1 85 % cwt.

PRODUCE, POULTRY VEGETABLES. EGGS-Per dozen, ranch 20 to 22c; state, 17 to 18c. BUTTER-Ranch, & lb, 25 to 40c; creamery, 35 to 40;

BUTTER—Ranch, № 10, 20 to 400; creamery, 50 to 50, poor, 8 to 15c.

ONIONS—4½ to 5c ₽ lb

POTATOES—Divide, 220 to 240 ₽ cwt; Greeley Mortons 240; Greeley Ently Rose, 250 to 275

TURKEYS—Dressed, 16 to 18c ₽ lb.

CHICKENS—Dressed, 15 to 16c ₽ lb

Topeka Butchers' Retail Market ... 

Roasts Fore Quarter Dressed, per lb. Hind Hind "
By the carcass "
MUTTON—Chops per lb...

Roast POR
POULTRY—Chickens, Live, per doz.
Thickens, Dressed, per lb.
Gurkeys, and Ducks.
Gese,

### Acw Advertisements.

Our readers, in replying to advertisements in the Farmer, will do us a favor if they will state in their letters to advertisers that they saw the advertisement in the Kansas Farmer.

20 Gold and Silver Chromo Cards, with name, 10c. post paid G. I. REED a Co., Nassau, N. Y.

50 Gold, Chromo, Tortolse Scroll, Marble and Bow SEAVY BROS. Northford, Ct.

### Minnesota Early Amber Cane Seed

The best and earliest of all canes. Warranted pure. Sent to any part of the United States, postage and at 50 cents per pound, 214 lbs., \$1.00.

GEO. F. THAYER, Independence, Kas.

### EGGS! EGGS!

### Notice to Sheep Men.

Any persons having sheep to put out on shares, or any other conditions, are requested to correspond with the undersigned, who has had much experience in the care of sheep. Sheep must be healthy. Range dry and rolling, supply of spring water ample, and rock fences sufficient to protect against wolves and weather. Satisfaction guaranteed. Address.

JOHN HOLAHAN,

Waverly, Coffey Co., Kas.

WARRANTED THE "BEST."



### Send for descriptive circular. Address JACOBS BROTHERS, Columbus, Chio. **PUBLIC SALE**

**Short Horn Cattle** 

Southdown Sheep AT KANSAS CITY STOCK YARDS May 12 & 13, 1880.

The bree-kers of Jackson county, Mo., will offer at public sale, without by bid or reserve, at the Kansas City Stock Yards, May 12 and 13, 1889, 169 head of SHORT HORN CATTLE-80 bulls and 80 cows and helfers—and about 60 head of Southdown sheep. The cattle are all of the leading and 'tandard families, nearly all bred and raised in JACKSON COUNTY, MO, and are thoroughly acclimated to the western climate. TERMS OF SALE—Cash or approved note at four months bearing interest from date at ten per cent.

The following railroads will give reduced raises on cattle purchased at the scale, to all points on the line of their roads: The Kansas City, Fort Scott & Goff, Kansas City, Lawrence & Southern and the Mi sourt Pacific The above roads oxcept the abssourt Pacific will give reduced rates to passengers attending this sale, on their return tickets.

Catalogues will be furnished upon application to J. T. Smith, J. P. Alexander or to C. C. Chiles, Independence, Mo., after April 10th.

Special attention is called to Capt. P. C. Kidd's combination sales on the 5th, 6th and 7th of May.

Col., L. P. MUIR, Anctioneer.

### The American Popular Dictionary \$1.00 Only





How to GET A Hus-

REGULATOR

# AGAIN,

### Bartholomew&Co

Desire to call your attention to their large stock of

Cheviots. Shirtings, Jeans. Tweeds, Cottonades.

For Farmers' and artisans' wear.

BOY'S WEAR.

These goods are especially cheap, and a good assortment to select from.

Muslins. Shirtings, Calicos,

Ginghams. Tickings,

Dress Goods, Black Alpaca, Black Cashmeres, Spring Dress Goods, Lawns, Percales, White Goods, New Spring Hosiery, New Spring Gloves, New Kid Gloves, Paraso s, Embroideries, Corsets, Laces and But-

Overalls, and almost everything i -Ladles'  $u_i$   $\partial_i G_{iAUS}$  farnishing goods.

tons, Mens' Shirts, Mens'

BARTHOLOMEW & Co's Cheap lash Store.

177 Kan: as Avenue, TOPEKA - - KAS



PUBLIC SALE

### SHORT-HORN

CATTLE,

Tuesday. May 25, 1880.

At ray Farm. 3 Miles from Leavenworth, Ks.

I will sell at auction, at my farm, 3 miles from Leav-enworth, Kansas, 51 head of high-bred cattle, con-sisting of 17 bulls and 34 cows and heifers of the fol-lowing families:

Mary, Belina, Phyllis, Ianthe, Lady Elizabeth,

And other equally good and well known families. Of the 17 bulls one is by the 14th Duke of Thorndale and six by the 4th Duke of Hilburst.

The cows and heifers are splendid, many being show animals. All red but six, roan. All the females will be bred or have calves at their sides, or ooth, on day of sale.
All recorded and all guaranteed in all respects.

TERMS. Six months on approved paper, with a rebate of 5 er cent. for cash.

Sale will commence promptly at one o'clock.

Catalogues sent on application after April 1st.

J. C. STONE, JR. Leavenworth, Kas.

# SONGS, One Cent Each

as The Hilliam Device, in M. 1779, and The Beach of the B

we'll send too of these Songs, your own selection, for 10 cents, fifty for 20 cents, and 100 for 120 cents, and 120 ce

### Literary and Domestic.

Child's Trust.

BY JOHN C, WHITTIER. A picture memory brirgs to me; I look across the years and see Myself beside my mother's knee

I feel her gentle hand restrain My selfish moods, and knew again A child's blind sense of wrong and pain. But wiser now, a man gray grown. My childhood's needs are better known My mother's chastening love I own. Grav grown, but in our Father's sight A child still groping for the light To read his works and ways aright.

I bow myself beneath his hand: That pain itself for good was planned I trust, but cannot understand.

I fondly dream it needs must be That, as my mother dealt with me, So with his children dealeth he.

I wait, and trust the end will prove That here and there, below above The chastening heals, the pain is love?

### Hints to Be Remembered.

Remember to shake off and remove all dust from a black garment every time it is worn. Nothing sooner defaces a black silk, poplin or woolen, than to wear it shopping, riding, or even for a day in the house, and then hang it up without removing the dust. The gritty motes, with which the air is filled, grind and wear out any fabric. First shake both the dress and overskirt faithfully, then take a soft old handkerchief and brush the dress with that instead of a clothes-brush. See that all the dust that settles in folds and pleats is removed. Stand by an open window and shake the dust out of the window every little while.

Remember that lemons can be kept sweet and fresh for months by putting them in a clean, tight cask or jar and covering with cold water. The water must be changed as often as every other day, and the cask kept in a cool place.

Remember that mirrors should never be hung where the sun shines directly upon them. They soon look misty, and grow rough and guests entered their carriages. Sometimes a white man can keep chickens in Alabama, and granulated, and do not give back a correct picture. The amalgam or union of tin-foil with enjoy a contra dance, or to take a parting drink colored men to work for him without pay. mercury, which is spread on glass to form a of punch, but by midnight the last guest de- Whether his plan would be permanently suclooking-glass, is ruined easily by the direct, parted, and the servants began to blow out the cessful if tried in other parts of the south is, of continued exposure to the solar rays.

Remember that one can have the hands in soft-soap without injury to the skin if the hands are dipped in vinegar or lemon-juice immediately after. The acid destroys the corrosive effects of the alkali, and makes the hands soft and white. Indian meal and vinegar or lemon juice used on the hands, when roughened faults—that he will not work, and his presence by cold or labor, will heal and soften them. Rub the hands in this, then wash off thoroughly and rub in glycerine. Those who suffer from chapped hands in winter will find this com-

Remember never to leave the clothes-line out week after weak, and take them down and wind them on the reel as soon as the clothes are dry. With this care a clothes-line will last for years, but if left out, wind and rain will mildew and rot the line, and it will soon become worthless. Added to this, the clothes will be colored from the line, and dirty streaks, almost impossible to remove, will be seen where they rested upon it.

Remember that the wings of turkeys, geese and chickens should never be thrown away. Many people, especially in the country, keep them simply to brush off the stove or range, but there is nothing better to wash and clear the windows. Chamois or buckskin is very good, but wings are better and do not cost anything, and their use is an economy-utilizing that which would otherwise be thrown away. They are excellent to clean the stove or hearth, to dust the furniture, but best of all to wash windows, because the corners can be easily and perfectly cleaned with them, leaving no lint behind as when cloths are used. Use these wings also to put on paste when papering walls. There is nothing that does that kind of work better.

Remember that a tablespoonful of black pepper will prevent gray or buff linens from spotting if stirred into the first water in which they are washed. It will also prevent the colors running in washing black or colored cambrics or muslins, and the water is not injured by it, but just as soft as before the pepper was put in.

Remember that if brooms are dipped for a minute or two in a kettle of boiling suds once a week they will last much longer. It makes them tough but pliable, and a carpet is not worn half so much by sweeping with a broom cared or in his manner. A good housekeeper will fee that her brooms are all thus scalded.

Remember that a fine paste for scrap-books can be made from alum-water and water-a teaspoonful and a half of powdered alum dissolved in enough cold water to make a pint of paste. Pour the water, when the alum is all dissolved, on to flour enough to thicken it as stiff as common paste, bring it to a boil, stirring all the time, and when it is done add a few drops of oil of cloves. The alum prevents fermentation, and the oil of cloves will prevent or destroy all vegetable mold.

Remember that old newspapers will put the finishing touch to newly-cleaned silver, knives and forks, and tinware, better than anything. Rub them well and make perfectly dry. They are also excellent to polish stoves that have not been blackened for a length of time.—Christian

### Washington Society in Jackson's Time.

In former years the wildest gentlemen used

for whist, and indulged in frequent libations of the corner of the chicken-house to invent some according to the season-with a baked raccoon, presence when the inevitable moment of discovgarnished with fried sweet potatoes, or canvas- ery should come. back ducks, or shad broiled before a hickory members of the diplomatic corps, indulging in was beginning to feel very lonesome. From

officials who kept house, to give at least one At half-past three there was standing room only invitations for which were issued. The guests after that hour were compelled to return home at these parties used to assemble at about eight disappointed. o'clock, and after taking off their wraps in an After a comfortable breakfast, Mr. Dodge upper room they descended to the parlor where took his shot-gun and the key of the chickenfrequently taking another glass of punch.

a source of pride, and there was never any lack spot. of punch with decanters of maderia. The minated .- Atlantic Monthly.

### Mr. Dodge's Success.

Our southern fellow citizens are accustomed to assert that the colored man has two glaring casts such a blight upon chickens that no white the southern states. Mr. James C. Dodge, who gowns. recently emigrated from Natick, Mass., to Laurelville, Ala., has signally refuted the popular dozen, southern estimate of the colored man, and has gowns. succeeded not only in keeping chickens, but in inducing thirty-four colored men to work for

him without wages. Mr. Dodge arrived at Laurelville last spring with the intention of cultivating a farm. The local white population received him courteously and wished him every success, but they warned him that he could not induce a single colored man to work on his farm except at preposter- straw braids. ous wages. When he casually introduced the subject of chickens they assured him that there times as large this year as they have been in was an African church within a mile of his the best of former seasons. was an African church within a mile of his the best of former seasons.

Lace bonnet strings dotted with palm leaves Chimney Flues. raise chickens in such a neighborhood.

Mr. Dodge was a stubborn man, and withal an ingenious one. He determined to prove to but brunettes have to blend it with yellow or the Laurelvilleans that he could do precisely what they said he could not do. Accordingly, he offered to bet with Judge Slemons that he would cultivate his new farm with colored la- black satin dress. bor, and that he would raise chickens without losing a single one by colored larceny. The el's hair are new stuffs that are pronounced pretbet was taken and Mr. Dodge went to his farm and began operations.

With the aid of the Laurelville carpenter Mr. Dodge built a magnificent chicken-house, with accommodations for five hundred feathered guests. The windows were so small that not even a consumptive colored boy could pass through them, and the door was of unprecedented thickness and strength. In one side of the chicken-house Mr. Dodge required the carpenters to leave a round hole of about two feet explain. Much pity was felt for him by his neighbors, on the ground that he was wasting his money in a vain attempt to struggle ored people; but Mr. Dodge "guessed" he was all right, and "cal'lated" that his chickens wouldn't be stolen to any great extent. When the carpenters had finished their work and had gone home, Mr. Dodge unpacked a large bun dle which he had received from the north, and after dark he filled his chicken-house with three hundred chickens, and locking it securely, went to bed.

About 11 o'clock that night a leading colored citizen of chicken proclivities made his way into the chicken-house through the hole which had been left open. He chuckled quietly at the folly of Mr. Dodge in locking the door, and at for trimming babies' hats. India muslin comthe same time fergetting to close the hole in the side of the chicken-house. When he had selected a dozen of the largest chickens he undertook to creep stealthily out of the hole, but dresses. Peacocks, blue jays, partridges and found his egress impeded by a series of sharp and projecting spikes. He then realized that he had been in a trap of the same general nature as that pleasing variety of mouse-trap into the newest and most startling thing yet inwhich the mouse readily enters through a wireto spend their evenings in decorously playing lined passage, the pointed ends of which pre- They are worn on the bonnet.

whist, with frugal suppers of broiled oysters, vent him from escaping. The leading colored bread and cheese, and a glass or two of maderia. citizen's estimate of white intellect underwent The rollicking Jackson men substituted poker a sudden change, and he sat down gloomily in whisky, while their supper tables were graced- plausible tale which would account for his

Half an hour later the minister of the colfire on an oak board. Plantation tobacco was ored church entered the chicken-house, and freely smoked in pipes, but few, except the was warmly greeted by his predecessor, who midnight until dawn the arrivals were almost Assemblies were held once a week between incessant. The fact that three hundred chick-Christmas day and Ash Wednesday, to which ens were in Mr. Dodge's chicken-house was all of the respectable ladies in the city who known in every colored cabin within a radius danced were invited. It was also customary of two miles, and the oppressed race had risen for those of the cabinet officers and other high as one man and resolved to have those chickens. evening party during each session of congress, in the chtcken-house, and gentlemen arraving

the host and hostess received them. The other house, and proceeded to ascertain what luck his men then went to the punch-bowl, to criticise trap had brought him during the night. To the "brew" which it contained, while the his great pleasure, he found thirty-four ableyoung people found their way to the dining- bodied colored men in the chicken-house, and, room, almost invariably devoted to dancing. after the most careful investigation, he ascer-The music was a piano and two violins, and one tained that not a chicken was missing. He put of the musicians called the figures for the co- no unpleasant questions to the colored men tillions and contra dances. Those who did not whom he had caught as to why they had dance elbowed their way through the crowd, crowded into his chicken-house, but he merely conversing with acquaintances, and the men informed them that he supposed they had come to assist him in planting, and that he was greatly At ten o'clock the guests were invited to the obliged to them for their kind assistance. At supper table, which was often on the wide back noon Judge Slemons and a dozen white Laurel-

porch which every Washington house had in villeans arrived at the farm, and gazed with those days. The table was always loaded with amazement at the spectacle of thirty-four colevidences of the culinary skill of the lady of ored men working energetically in the field. the house. There was a roast ham at one end, When the judge was convinced that no chicka saddle of venison or mutton at the other end, ens had been stolen during the night, he frankly and some roasted poultry or wild ducks mid- admitted that he had lost his bet, and, borrowway; a great variety of home-baked cake was ing the money from Mr. Dodge, paid it on the

Since that day Mr. Dodge has never lost a diplomats gave champagne, but it was seldom chicken. He has, however, only caught a few seen except at the legations. At eleven o'clock sporadic colored men, and has thus been obliged there was a general exodus, and after the usual to hire most of his labor. Nevertheless, he scramble for hats, cloaks and overshoes, the has successfully refuted the assertion that no few intimate friends of the hostess lingered to has on at least one occasion induced thirty-four candles with which the house had been illu- course, uncertain; but there is certainly good reason to suppose that it would greatly increase the security of chicken property .- N. Y.

### Glimpses of Fashion.

New petticoats have lace flounces alternating

The oddest of sunflowers are the helianths, man can profitably engage in raising poultry in which are white. They are worn with black Five or six dozen buttons at six dollars a

dozen, are among the adornments of some new Sprigs when closely strewn over the surface

of silk or cotton stuff are called "powderings," now-a-days. Worth makes a Jersey from crosswise spun

silk, placing no seams in the garment except under the arm. Silk threads are woven into fine Florence

straws in imitation of the colored strands in The sales of Easter eggs this year were three

of bead-work are newer than those simply

sprinkled with beads. Fair women relieve violet with water-green, W. A Spear, P.O. Box 170

look darker than mulattoes. Cashmere lace when wrought with gold thread, makes an exceedingly pretty trimming for a

Polka dotted bunting and polka dotted camtier than Cashmere,

Imitation Mechlin lace is used in immense quantities on the new silk suits, Breton being left for the foulard costumes.

Velvet brocaded grenadines in heliotrope color combine the attractions of a fashionable tint and an elegant material.

Cambrics with black and blue grounds with little pin dots in blue, red and yellow scattered over them, are new but not pretty.

Pretty colored cambries with white polka in diameter, for a purpose which he declined to dots are made up for young girls. The proper trimming is Russian braid or Smyrna lace.

Bonnets of lace, laid in overlapping rows like straw, are among the summer designs. against the chicken-stealing genius of the col- Roses and a gold pin or two are the only trimming.

Nothing but imitation lace is used to trim the richest mantles. Plaiting and the heavy ironing necessary to set the plaits spoils good lace. Handkerchiefs will be worn over the shoulders this summer, but they will not be of gingham like those of fishermen's wives, but of foulard.

Net work of gift and chenille is laid over the crown of many of the new bonnets. The color of the chenille matches that of the satin or silk beneath it.

White is more in favor than any other color bined with Languedoc lace is used by the best milliners

Feather borders will be used for rich summe barn-yard fowls are all plucked to make this trimming.

Bands of ostrich plumage in three colors are vented to keep one's neighbors awake in church.

Garnet surah silk is made up with handkerchief capes of foulard, and draperies and cuffs of the same material, for ladies who want elegant costumes for the seaside.

Daisies, with sewing silk centers are among the costly novelties that one finds only at the best milliners'. They are durable, although expensive, and very natural looking.

### Advertisements.

In answering an advertisement found in these columns, our readers will conter on us a favor by stating that they saw the navertisement in the Kansas Farmer

NOW READY Object Teaching AGENTS Stock Doctor and Live-Stock Encyclopedia. embrseing Buses, Cuille, Shrep, Sume and Finding-their breeds breedings training, care and manage ment, their diseases, prevention, symptoms and real cuille. Giving art is and most cullightened methods By J. D. Rassell Barming, M. J. S. With 160 pages, 400 illustrations, and 2 superb charts. Th

PIAMOS \$150 TO \$190,...All strictly first class....all strictly first class....all at wholesale factory prices. Higher Hoxors at centendial Exhibition, Math.shek's scale for Square Grands. Finest Uprights in America. 12,000 in use. Cathogrie of 48 pages free.

JUBILLE ORGANS, the best in the world. An 8 stop organ only \$65; 18 stops \$875; chreular free. All sent on 15 days' trial, freight free if unsatisfactory. Factory 57th 8t and 10th Ave. Sheet Music at 1-3d price; cata-logue of 3000 choice pieces sent for 30 Stamp. Address for 30 Stamp. Address Mendelssohn Piano Co., Box 2058, N. Y.

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Cheap, Portable, Practical Catalogue free.
AMERICAN DRIER Co.: Ghambersburg, Pa



### HAWORTH'S WIRE CHECK ROWER.



Acknowledged by all farmers who have used it to be THE BEST AND ONLY PERFECTLY SUCESS. FUL Wire check Rower. Will plant fine acres more a day than any other, as the WIRE IS NOT REMOVED FROM THE MACHINE. In planting the entire field. Eleven years' use has kemonstrated the fact that the ONLY SUCCESSFUL WAY to use a rope or wire line is for the machine to transfer it into position to plant the next row. Do not buy a Wire Check Rower unless the lise crosses the machine, as it will last twice as long as a wire run on one side, which must be dragged into position regardless of obstructions met as the planter crosses the field, and which cause friction, insecurate checking and breaking of the wire. In our check rower the elasticity of the wire and its large curve in passing over the machine, prevents a particle of bending or displacement in the wire, such as occurs in Check Rowers where the line is dragged into the pulley at an angle and high tension, and both bent and displaced as it enters the pulley. Dragging the line into position also causes canding, or lopping of the planter, by which one row is planted too deep and the other too shallow. Our love Check Rowers are too well and favorably known to call for any extended notice.

For full description of our Wire Check Rower and the three styles of Rope Check Rowers which we manufacture, write for a circular.

HAWORTH & SONS, Decatur. Ill

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Carbonated Stone and Pipe Works

Wholesale and Re

**CEMENTS** LIME, PLASTER and HAIR,

Factory and Office

### A. PRESCOTT & CO.,

TOPEKA, KANSAS,

Have on band

### \$100,000 TO LOAN

In Shawnee and adjoining Counties on good Farm security

At 8 and 9 per cent.,

Per Annum.

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Kansas Division Union Pacific Ry Only Line running its Entire Train to Douver and Arriving

Many Hours in Advance of all Other Lines from Kansas-City or Leavenworth. Denver is 114 miles nearer Kansas City by this Line than by any other. The Denver Fast Express with Pullman Day Coaches and Sleepers runs through

To Denver in 32 Hours.

To Denver in 32 Hours.

The Kansas Express Train Leaves Kansas City at 11 every Evening and runs to Ellis, 302 miles West. The First-Class Coaches of this train are seated with the Celebrated Horton Reclining Chairs. All Persons en-route to Mining Points in Colorado should go via the Kansas Division of the Union Pacific Reliables. All the Persons en-route to Mining Points in Colorado should go via the Ransas Division of the Union Pacific Reliables. All the Persons en-rough the West Colorado and excellent view of that magnificent section of the Union, the First Wheat Producing State, and fourth in rank in the production of corn. This state possesses superior advantages to agriculturists. Thousands of acres yet to be opened to actual settlement under the Homestead Act, and the Union Pacific has 62,500 fine farms for sale in Kansas.

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\$66 a week in your own town. Terms and \$5 outfit free. Address H. HALLETT & Co., Portland, M.

\$77a Month and expenses guaranteed to Agt Outfit free, Shaw & Co., Augusta, Maine

\$777 a Year and expenses to agents. Outfit free. 50 Perfumed cards, best assortment ever offered, 10c Agis Outilt, 19c, CONN CARD Co., Northford, 6t

52 Gold, crystal, lace, perfumed & chromo cards, name in gold&jet 10c Cliaton Bros, Clintonville &

50 Chromo, Glass, Scrolt, Wreath and Lace eards 10e Try us. HROMO CARD CO. Northford Ct. 18 Elite, Gold Bow, Bevel Edge cards 25c. or 20 Chinese Chromos, 10c. J B HUSTED, Nassau, N Y

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WANTED-LAPIES THE LIFE OF ZACHARIAH CHANDLER, NOR.J. G. BLAINE.

5000 Bushels seed potatoes. Orders booked now Leading varieties and valuable new kinds, both sweet and Irish. Directions for making FIRE HOT BEDS in free catalogue. E. TAYLOR, Armstrong, Kas,

CHEAPEST BIBLES Law Torms and Large Consider & McMarin, CASH PREMIUMS

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60 cents On trial 6 most.
a year. for only 30 cts.
Choice, cheering, comforting. Illustrated. S. S.
Lesson Notes. Address WITNESS, Chicago, Ill.

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Apparatus and Supplies.

Complete outilis a specialty. Best boiler in market. Send for circulars and net prices. Every duityman seeing this will confer a flowor by sending for a circular.

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Funds to loan en Long time, at REASONABLE rates, on IMPROVED Farms in Shawnee county. No Com-Address. C. W. JEWELL, Treasurer, Tepeka, Kas.

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CHEAPEST HOUSE IN AMERICA, 1st-class instru-ments, all new, for cesh or installments; warranted 6 years. Illustrated catalogues free. Agants wanted, T. LEEDS WATERS, Agt., 28 West 14th sc., New York

AGENTS WANTED Everywhere, to sell the best Family Knitting Machine ever invented. Will knit a pair of stockings, with HEEL and TOE complete, in 20 minutes. It will also knit a great variety of fancy work for which there is always a ready market. Send for circular and terms to The Twombly Knitting Machine Co., 469 Washington bt. Boston, Mass.

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A. S. JOHNSON.

Act'g Land Com., Topeka, Kansa

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AT DATE OF PURCHASE. For Further Information Addre JOHN A. CLARK,

LAND COMMISSIONER

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MC

HOW TO POST A STRAY

BY AN ACT of the Legislature, approved feb 27, 1808, section 1, when the appraised value of a stray or strays exceeds ten doftars, the County Clerk is required, within ten days after receiving a certined description and appraisement, to orward by mad, notice containing a complete description fault strays, the day on which they were taken up, their praised value, and the name and residence of the taker up, the KANSAN FAIRMER, together with the sum of fifty cents (1) and of contained in said notice.

Broken adminds can be taken up at any time in she year.
Unbroken animals can only be taken up between the isday of November and the list day of Airth, except when found in the lawnil enclosure of the taker-up, to person, except citizens and householders, can take up a stray.

If an animal light to be followed had in the lawning light to be followed as a stray.

If an animal light to be followed had in the lawning light to be followed as a stray.

If an animal light to be followed had in the lawning light to be followed as a stray.

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If an animal light to be followed had in the lawning light to be followed as a stray.

If an animal light to be followed as a stray animal light to be followed as a stray.

If an animal liable to be taken, shall come upon the premises of any person, and he falls for ten days, after being notified in writing of the fact, any other citizen and householder may take up the same.

Any person taking up an estray, must immediately, sulver-tise the same by posting three written nonces in as many places in the township, giving a correct description of such stray.

places in the lowership, giving a correct nescription of ten-stray.

If such stre. 'is not proven up at the expiration of ten-days, the taker-up-shall go before any Justice of the Peace of the township, and file an attidavit stating that such stray was taken up on his premises, that he did not drive nor cause it to be driven there, that he has assvertised it for ten-days, that the marks and brands have not been altered, also he shall give a full description of the same out its cash val-ue. He shall also give a bond to the state of 4 outlie the val-ue of such stray.

benefits the takerup may have had, and report too same on their appraisement. It all cases where the fittle vests in the taker-up, he shall pay into the County Treasury, deducting all costs of taking up, posting and taking care of, one-half of the remainder of the value of such stray.

Any person who shall sell or dispose of a stray, or take the same out of the state before the title shall have vested in him shall be guity—a misdenienanor and shall forfelt double the value of such ay and be subject to a fine of twenty dollars.

Strays for the week ending April 21. Edwards county-R. L. Ford, clerk.

COW—Taken up April 1st, 1880, by W G Henderson, Fran din tp, one light roan cow, 4 feet high, branded C.

COW—Also, by the same, one dark roan cow, four feet high branded C. branded C.

COW-Also, by the same, one red cow, four feet high, and tranded C. The above three animals all valued together at \$50.

Strays for the week ending April, 14. Cloud County—E. E. Swearngin, Clerk,
HORSE—Taken up Feb. 23d, 1880, by Mathew Maker of
Buffalo tp, Cloun Co., Kas., one brown colored horse, medium size, 10 years old, mark and brands on left hip but undistinguishable. Valued at \$25.
MARE—Also one dark brown mare five years old, no
marks or brands. Valued at \$25.

Jackson county—J. G. Portorfield, clerk.
STEER—Taken up March 10, 1880, by John L. Wright of
Cedar tp, one red steer one year old past, white star in fore-head, no brands or marks perceivable. Valued at \$20.

### Strayed or Stolen.

From the premises of the subscriber about March 18th one sorrel horse, five years old this spring, blaze in face, about 14; hands high, white hind legs up to hocks, saddle marks on back, girth marks on each side, collar marks on shoulder and neck; also mare colt one year old with flaxen mane and tall. A liberal reward will be paid for the recovery of the above animals. FRENCH RUTLER, Othus, Ks

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20 Verbenas in variety for \$1, 12 Geranfums in varioty for \$1, 12 Fuchslas in variety for \$1, 15 Carnations and hardy pinks for \$1, Other plants at corresponding rates. Address

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RED CEDARS AND FOREST TREES BY MAIL. the following packages by mail, post paid for \$1 00 per package.

per package.

50 Red Cedars (Nursery grown)

100 Tulip Trees, 4 to 8 inches, 100 White Ash, 6 to 10 inches,
100 Degwood (White Flowering)

100 Box Elder, 6 to 10 inches,
100 Elm 4 to 8 inches,
100 Ham 5 inches,
100

Strawberry, Current, Raspberry, Gooseberry, Blackberry The largest stock in the country of the Cuthbert Raspberry, now said to be the best. The most liberal offer is made ever, yet given to the public. Catalogue sent free. Address

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Warranted pure and fresh; raised from large selected onions, just received from New Mexico. Sent by mail post-paid, per oz. 50e; 1/4 lb, \$1 75; 1/4 lb, \$3 60; per lb, \$5 00. Will send packages of Egyptian or Rice-corn to purchasors sending postage or one lb by mail postpaid for 25c.

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always on hind. Boquets, Cut Flowers and Or-namental Work made up at short notice. Ed. Sole Arents for Vick's Flower and Garden Seeds, Send for Vick's Flower and Garden Seeds. Send f CINCINNATI FLORAL CO., 187 & 189 W. Fourth Street, Cincinnati, O.

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MOM CAID

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Shepherd Pups for sale, the get of imported Robbie Burns, and out of our imported Bitches, Bertha Rloy and Gypsey. Color black and tan, with little white. Prices low, Address, McGILL BRO'S,
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All Kinds of Garden Plants in Season, grown esspecially for the early market. Also Flower and Vegetable seeds. Send for Frice List fro. ROOT & CO.. Rockford, Ills.

HOUSE PLANTS \$1

Send for our catalogue of NEW and RARE ANTS. Also 5 cent list of over 290 varieties, dress (on Postal card) L. TEMCLIN & SONS Loveland Station, Mahoning county, 6,

### PLANTS and FLOWER SEEDS.

Grown in your own state, acclimated to Western climate. Larce stock and in fine condition. In growing the same we use more glass than any other establishment west of St. Louis, and defy honest competition. Special care in selecting, packing and shipping plants. 2-page descriptly centalogue free. Send for one. Vegetables all the year round.



Because my master planted some of T. R. & A'. ARTICHORES.

\$3 00 per Bbl., \$1 25 per Bu., 50c per Pk. Packages in cluded, Cash with order. Buy only the genuine Je-rusalem Artichokes of TRUMBULL, REYNOLDS & ALLEN,

Seedsmen, Kansas City, Mo. We have a large stock of German, Common and Pearl Millet. Hungarian, Egyptian Rice corn, Early Amber canc soed, Sweet Polatoes, Northern Irish Po-tatoes and seeds of all kinds.





My annual catalogue of Vegetable and Flower Seed for 1880, rich in engravings from photographs of the originals will be sent FREE to all who apply. My old customers need not write for it. I offer one of the largest collections of vegetable seed ever sent out by any Seed House in America, a large nortion of which were grown on my six seed farms. Full directions for cultivation on each package. All seed warranted to be both fresh and truo to name; so far, that should it prove otherwise. I will refill the order gratis. The original into Janeer of the Hubbard Squash, Phinney's Medon, Marbiehead Cabbages, Mexican Corn, and scores of other vegetables. I invite the patronage of all who are guxious to have their seed directly from the grower, fresh, true, and of the very hest strain. New Vegetables a Specialty.

JAMES J. H. GREGORY, Marbiehead, Mass.

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For Seed. AND

Plants in their Season.

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New Seedlings. Sold at low rates and in quantities to surt. Will ship to any point. Address N. H. PIX-LEY, Warnego, Kas. Will be ready by the middle of May.



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THE PITTS AM

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Rose Growers, West Grove, Chester county, Pa.

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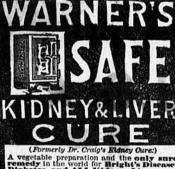
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Kidd & Harris, 93 bulls about ready for service; also several others whose entries are not at hand. Sale to commence each day at 12 o'c lock. For catalogues address Joseph Kidd, Pleass et Hill, Mo. Any one wishing to enter stock in sale supplement can address me 10 days previous to sale at Jansas City, Mo.

Attention is called to the Short-horn sales of the Lagraco. County Association, As he had P. C. KIDD.

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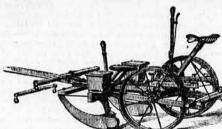
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WORLD'S DISPENDALA MEDICAL ASSOCIATION, Prop'rs, Buffale, N. Y.

### farm Zetters.

ARGYLE, Sumner Co., April 5.—183 miles southwest of Topeka. We are having fine weather at this time. Peach trees are in full bloom, and the prospect for a good crop of peaches is good, if nothing happens to them before May. We have had plenty of rain late Wheat looks well and is growing finely with the exception of the late varieties which have suffered by the dry winds of February. Do not think it will make more than half a crop. Oats are all sown and coming up. Some farmers are planting corn, altho'h the greater part will be planted about the 15th of this

Wheat is selling for 80c to 90c; corn, 27c to 31c; po tatoes, 50c to 75c. No disease among stock in this locality. Stock is looking well, although feed is scarce. Hay is selling at \$6 to \$7 per ton.

Some of our stock men removed their stock out of the state into the Indian Territory before the first of March, so that they will not be taxable. They will bring them up again in the fall to winter them. I think there should be a law to compel them to pay taxes on their stock in the state, notwithstanding they may have them in some other place at the time of assessing the tax. THOS. NIXON.

CHEROKEE, Cherokee Co., April 8th.-When I last wrote to your paper I was a Kansas farmer in pros-pect, Now I am one in reality; have been here seven menths, like the country tip-top. The weather is now favorable for work. Oats and flax are about all sown; plowing for corn and castor beans is pro gressing rapidly; some are planting corn now, but think it won't grow much until the weather is warmer. The prospects for wheat is still very flattering at present, It covers the ground and is very near joint-

Fruit in this section is not hurt. The peach blossoms are falling off. All fruits are going to bloom

full, and the outlook is encouraging.

I consider the Kansas Farmer a wide-awake pa per for me, and think no farmer can afford to be without it.

S. M. Cogshall.

MARION CENTRE, April 2 .- 85 miles SW. from Topeka. Last spring I planted some artichokes on ground that had been in potatoes four years, the potatoes heavily mulched each time and the mulching plowed under. After plowing we did not have rain enough to wet the depth of plowing till midsummer. The artichokes grew seven or eight feet high, but when I came to dig them they were almost a complete fail-ure, not giving one-fourth as much as early rose po-

tatoes on the same kind of ground.

Our county has been badly scourged by chicken cholera the past six months. I have never lost any by cholera, and as usual came off clear this time, while many have lost all they had, and my tenant on the same farm, with their chickens not ten rods from mine, have lost nearly all they had. I attribute my success generally to changing male birds every year. Last fall when my neighbors' chickens began to die, I began to feed mine a mush made by putting boiling water on chopped corn and barley, equal parts, with sometimes an addition of a portion of wheat bran or shorts, and each day or two a large spoonfull of red pepper to fifty hens. That was my feed each morn-ing, fed hot. They gathered corn about the yards during the day, and at night had a feed of whole barley. Such has been my treatment, and my hens have been fat, in fact almost too fat, and laid

Last year I received a sample copy of a poultry journal, and from one short article got information worth more to me than the price of the journal for a year, so I have subscribed for it myself this year. I don't see how any farmer can get along without an agricultural paper. I have often found single articles worth the price for the year. The old Kansas FARMER I consider among the best:

Wheat needs rain badly—have not had a shower since January, although I have seen them pass on each side of us. This is a good time to look at the wheat fields and compare the difference between ear-ly and late plowing. Farmers busy planting corn. J. B. Dobbs

TONGANOXIE, Leavenworth Co., April 10 .- 50 miles ENE. of Topeka. Peach trees in blossom; think peaches are not killed by frost. Winter wheat looks well, though in some fields it is killed in spots by the hessian fly and frost. Oats sown in the fore part of March look fine. Some farmers sowed their oats in April, rather late

the spring of 1870, Peb. 14, I sowed 12 acres to oats (40 bushels), harrowed three times. We had win-ter weather three times after I sowed my oats; wed froze the ground thewed Some of the oats were killed by freezing, but enough was left, and branching out like winter wheat made the best crop I have raised in Kansas on upland, though have raised more to the acre on bottom land. I mulched some potatoes in May last year; planted each blows immediately after mulching. From se not mulched I did not get the seed back : those that were mulched turned out fine.

Kansas farmers especially should by all means take the Kansas Farmer. The money invested in the E. B. KECK. FARMER brings good returns.

NAOMI, Mitchell Co., April 9.—The principal topic of conversation between farmers at the present time is the condition of the fall wheat and the dry weather. Both cause a great deal of anxiety. We have not had raine nough this spring to wet down over two inches, although a few miles from here there has been a very heavy rain. Two days ago I went to Beloit, 13 miles from here, and I did not see an acre of good fall wheat. The best that I saw was a small good fail wheat. The best that you was drilled in last piece, of perhaps one acre, that was drilled in last fall on stubble ground without plowing. A neighbor remarked to me that he thought it would be a very good plan to drill in wheat on the stubble, by plowing once in two years. If any of the readers of the FARMER have had any experience in that way of raising wheat I would be glad to see it given through 'our" paper. For the last two days I have been roll ing my wheat. I have eight acres that was plowed in August, and sowed with drill on October first; that is good for this year, looks green and nice. Twelve acres right by the side of it, plowed and drilled the first part of October is very badly killed. I have learned this, that where the ground was most mellow and loose there the wheat is killed the most. I harrowed all my ground before I used the drill. Had I not, I would have lost all my wheat, as have many of my neighbors, who sowed right on to the fresh, loose plowing, without using either harrow or roller. By the way, some of the best wheat in this part was sown with drill, after a good roller. In August I plowed under some five acres of wheat that was not out, (all my wheat is grass wheat) and harrowed afterwards. It came well, even too thick, in many places, but nearly all killed out during the freeze of February 27 and 28. I wish some one would tell me why that was killed worse than that plowed and harrowed at the same time, but sowed with drill two weeks later.

To-day was real warm. The surface of the ground was warm, and I found quite a number of chinch They seemed to be in good health, and to be as full of life as though we had not had any winter at all. The mild, dry weather has been very favorable for them, and I fear the result unless we get a good

Potatoes are very high with us, have been as high as \$1.20, but several car loads came in from Iowa, and good peach blows are now worth only one dollar. Quite a large acreage has been planted, nearly all early rose. I wish to ask when is the best time to

mulch potatoes to secure a good crop. Some of our farmers are nearly ready to plant corn,

others have stopped the plow waiting for rain. Wild plums are nearly out in blossom; our peaches are nearly all killed. Some gardens begin to look upward. Cattle and hogs are looking quite well. Wild grass begins to show itself.

While going to Beloit I saw three flocks of sheep numbering 260 to 300, now feeding on the prairie and looking real well; lambs were quite numerous.
One of these flocks was brought from Wisconsin last fall, and one from Colorado. They wintered real well and bid fair to be a source of profit to the owners

There is a disease among horses, called Texas itch, that is causing some uneasiness among the farmers. It seems to be confined principally to the horses owned in town, but is beginning to spread through the country; though the cases are not numerous. I wish some one who has treated the disease with success would give mode of treatment, also tell us if there is any way of preventing the spread of the disease. Is there danger of the disease being taken by the human family?

Some farms are changing hands occasionally. One place of 160 acres with some improvements, sold a few days ago for \$1,055. Others ask from \$600 to \$1,600, according to location and their improvements. Those who sell usually go farther west. The frontier eems to suit some people better than a community where there is good society.

NORTH CEDAR, Jackson Co .- 22 miles north of Topeka. At this time we are having nice spring show-ers. We have not had much rain since the first part of winter, and the earth is in a condition for receiving a large supply. Weather warm; cranes flocking northward, and cattle grazing on the green hills are unmistakable evidences that spring is here, even at our doors. Farmers are well up with their work if not in advance of the season, some having sown oats a month ago. Wheat on sod looks well; on old land badly frozen out, except where hardy varieties were sown and favorably located, which look very well; bottom and south hillsides the best. Usually wheat does well here on all locations, but last winter was hard on the crop. Being but little snow, with very heavy rains in early winter, followed by freezing and thawing made the wheat heave, the like which we seldom see in northern Kansas. Last season old land wheat was the best, as snow covered the ground six eeks the previous winter. There is but little spring wheat raised here, but what we see looks well. Drilled wheat with few exceptions looks the best. Drilling is far preferable to broadcasting, and almost universally practiced. The yield is from eight to for-ty bushels per acre. Last year I sowed a forty acre field to wheat, consisting of three varieties, the Little and Big May on the sides, and White Clawson be-tween. The three pieces were sown at the same time and all looked as one solid piece in the fall, but now can be easily distinguished apart. The White Claw can be easily distinguished apart. The White Classon stood the winter far the best, Little May next.

In this part the soil is good and country very attractive to the immigrant, laid out in beautiful hedged farms, with bearing orchards and good buildings of all kinds, with plenty of good range for stock where they can run out on the prairie and fatten un-molested, which offers inducements to the farmer and stock raiser not surpassed by any other section of the state. This part is settling up rapidly with an industrious class of farmers, among whom is a colony of Germans from Lancaster county, Pennsylva-nia, who settled here after their committee men had visited various counties of the state. They are industrious, well-to-do farmers, have made a good choice in locating, and have been paying as high as twenty dollars per sere for some farms.

Now, or previous to this, is the time to put out trees and cuttings north and west of barn and feed lots, which will make nice timber belts for windbrakes. There is plenty of timber here to answer all purposes. I can readily see the quantity exceeds that of sixteen years ago. Strange that farmers are so slow in fencing their timber for hog pasture, and to set in blue-grass. Osage hedge does well here. The prospect for fruit of all kinds is good, and the

farmer commences the spring of 1880 with golden evidences of a rich harvest in the future.

The Kansas Fyrmer, the farmers' triend, should be in the household of every tiller of the soil. It is safe to assert that if farmers had received the advice and heeded it, that was effered them on lightning rod swindling agents alone, over a year ago, by the FARM-ER, they would have saved enough in the aggregate to have paid for the paper one year for every farmer in Kansas.

W. A. Dobson.

PLAINSVILLE, Rooks Co .- There was a fall of snow here the 12th of March two inches deep, with the exception of two light tracking snows, it is all we had vember. The most of the late sown fall wheat has come up and looks well considering the drouth. Some of the early sown was winter killed, but there is a good stand on the ground yet. We will have a fair crop of wheat if we get rain soon. There is more moisture in the ground than any one would suppose. The plows are running, and a great many trees are being planted, both of fruit and timber. Farly gar-dens are made. The acreage of sorghum, Egyptian and broom corn will be increased this spring, and a large amount of millet sown. I notice there is a great deal said through the Farmer, as well as other papers, about the Amber sugar, but I am compelled to defend the old sorghum. It equals the Amber on all points and makes the best molasses; as far as granulating is concerned one doesn't go to sugar more readily than the other. The great recommend is simply a speculation. I put myself to considerable trouble to get the seed last year. When I found it it proved to be a worthless variety that I had abandoned years ago. By careful investigation I found there was more than one kind sold for the Amber. I obtained a 4 pound package from the Department at Washington, and was rather surprised to find that I had two packages of the same seed on hand already but of different names. I first got it in Osborn county. It was known there as the Hovey cane. I recognized it as a new variety that was raised in our neigh-borhood, known as the Black Top. I planted all kinds side by side and offered the crop to my neighbors if they would separate it, but no one could tell the dif-There was a large amount of the seed sold here. One man bought \$15 worth for himself and neighbors, and he had over 100 gallons of the same cane worked the seasonbefore. So much for the use of printer's ink. I recognize it as the second best variety and nothing more. I find the man that is selling the most seed was selling a patent stalk burner which proved worthless. Those who bought them naturally fell back on wood.

One of your correspondents wants to know about raising chuffas in Kansas. They have done well with us the last two years. The seed should be sprouted before planting, or they may not come up evenly. They make good grazing for stock which is said to benefit the crop. They are very productive without being eaten off. The chickens don't eat many of ours. We like them too well ourselves. One seed is enough to a hill and twelve inches is close enough. I prefer planting in rows so they can be run through with the cultivator. I think a daily supply of water would be a better preventative of chicken cholera than chuffas, also artichokes would be more profitable to feed

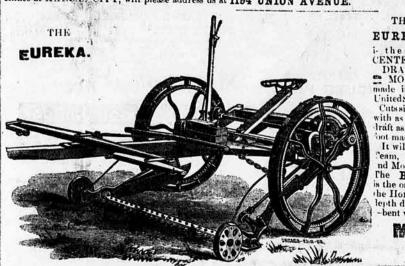
hogs. They both seem to produce well.

We would like to have some information in regard to alfalfa clover. We have known it to be sold which proved to be the old fashioned sweet clover that is raised back east for ornamental purposes. It is a great honey producing plant. Are they the same, or were we humbugged? V. S. Hawk.

The honey plant is the Alsike clover, and not the Alfalfa.- [Eb.

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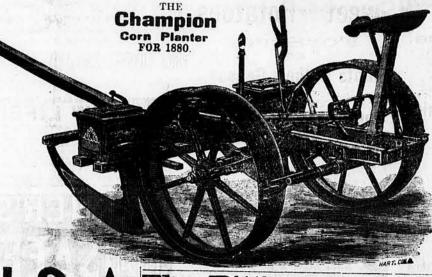
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