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# The Kansas Farmer.

ON & EWING, Editors & P Topoka, Rassas

THEMS: CASH IN ABVANCE BATES OF ADVERTISING

#### LITERARY C LEANINGS-NO. 6. MARG IAL KOTES.

is acquainted with the of our state, bere noticed Philip and Mary. These colleben carried on sinc. that time.

value to the student and general reader. PENDULU CLOCKS.

The old "wall-sweet cupied a corner of the the more Connecticut neighbors. ful inventions the inven

seems accidental. measure of time.

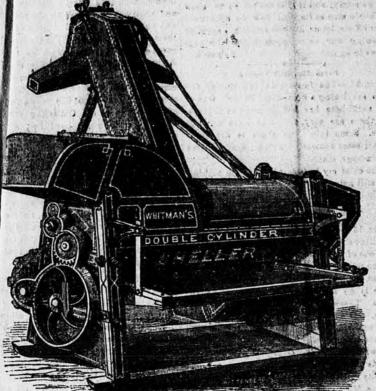
forefathers resorted to said-glasses. Prior Lane, Kansas. this we read that Altre the Great made of candles to measure the; ecah candle wate and public affairs.

COMMON UMP. except for the first thirty to feet."

gravity of the atmosphere.

BAROMETE It was Torricelli, the put of Galil first discovered the true ason wh could not be raised over this-two 'fe single valve by a commonump. murcury and found it rose by twen inches, instead of thirty-twicet, lill He then took a long glass te, fill

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HITMAN'S DOUBLE CYLINDER POWER CORN SHELLER.

"which in our early re not advised.

days was to be seen in most every house he thermometer in common use is called enough to bud.

must not be forgotted. They frequently or renheit's thermometer. The inventor paid cupied a corner of their room, and were their to Iceland and there he constructed the most costly piece of furniture. Our minose or degrees of heat. Why the 0 should most costly piece of furniture. Our minose or degrees of heat. Why the 0 should most costly piece of furniture. Farmer: I have been in this neighborhood success, perhaps many of them have the degrees below the freezing point, has borhood but a short time, but the longer I portion of suclety, permaps many of them have a degrees of the plan of the plan of nover seen an old "wait -sweep," for when theed many a conjecture. The reason is stay the better I like it. I think we have as having an extra side-board on the off side of emigrant concludes to start westward he during the inventor's visit to the island of leaves behind him the old time-piece of he and, it was never colder than 0, or zero the state. The county is settling very fast wasteful way of driving team and wagon over leaves beaning the row and shelling a large quantity.

forefathers. It has almost been displaced by young readers will look at the map with enterprising folks. I live near the juncture of the row and shelling a large quantity.

What will the lovers of pork do if the hog Like many other use ude, although we have frequently in Minnescab river. ion of the pendulumess experienced that our own winter Our county seat is building up very fast

claim the known truth that the earth revolve ich surrounds the island of Iceland equal shops. We have a population of 3.500, and round the sup), first tool notice of the oscillas the atmosphere. Etinburgh, in Sectional immigrants are pouring in as fast as ever. round the san), first tool notice of the oscillas the atmosphere. Ethinburgh, in Scetton of the pendulum, a len in a church ad, although three hundred miles north of lese in the last number of the FARMER, Pica, from the oscillation of a lamp suspender city of London, is warmer in the winter that Mr. D. M. Edgerton, of Dayton, Ohio, Pica, from the oscillation of a lamp suspense of the London is. Edinburgh is on the wishes to find a good opening for a first-class i-board while London, on the Thames, is Time pieces being of nodern invention oventy miles inland. JAS. HANWAY.

### BUDDING.

portioned off in three divisions, by paint December 17, 1878.—As I may be able to rings; thus he knew is the burning off we a few ideas to some farmers, I send you candle the length of time devoted to his short letter on the best and cheapest way of ptaining an orchard. I plant in drill about ght inches apart, my peach seeds I plant any The common pump as invented mime that I obtain the seed. I never let the years before the time of ralileo, but when its get dry. I secure bude from any choice was in Florence he as a pump more with within reach, and bud any time from the thirty-two feet in length which of court of July to the 15th of October, after a good would not raise water above that he sain which starts the sap so that the work can This he could not underend; so he conche done. I put the bud in about three incheed that "nature certainly oborred a vacuabove the ground, using a weolen cord tied rcept for the first thirty-to feet." so as to hold the bud in place for four or five
It is still more surprise; that faw of tage. I then remove the cord and let the tree pump-makers of the prent day understand bud stand until the next spring, when talk about the pear blight. Having been culthe principles of the comma pump. With bud starts. When the shoot is four or six tivating pears, more or less, for thirty years cap Raspberries. Peaches and Apples planted rises in a pump by the light of the blackes in length, out the old stem off just water thirty-two feet is al to the will not cost you five cents per dozen if obmaded in this way. Any of your neighbore the native sod, and try them without cultivatrees. If you have to buy from a tree peddler, may soon have more trees than you can find said, "There, you will see those trees blight." place to plant them; and if you get your buds If you wish my theory, I will explain at some from bearing trees you know what kind of future time. fruit you are budding. Plant your trees 30 mercury and hermetically aled he with little difficulty, only locsing one row of each row of pand; then put his fluger to tother do corn for each row of peach trees. Train your plunged it into a basin of many. h feet apart, and you can cultivate your orehard trees to grow straight. Nevez allow them to

a barometer. But it was left to another fork, but prune to a round top, so as to be able that they are asset ted by marginal notes a barometer. But it was left to another fork, but prune to a round top, so as to be able that they are asset ted by marginal notes a sharometer. But it was left to another fork, but prune to a round top, so as to be able that they are asset ted by william scover that he had done so—the great to plow up to the trees. Do your pruning the 15th of May, then the wounds will soon head from the Magna Charita to the fourth year of a man of sublime and universal genius.

These collections have cal first tried it to prove the weight of the ily as peach. When I bud I leave the leaf philip and Mary. These collections have cal first tried it to prove the weight of the collections have cal first tried it to prove the weight of the collections have cal first tried it to prove the weight of the collections have cal first tried it to prove the weight of the collections have cal first tried it to prove the weight of the collections have cal first tried it to prove the weight of the collections have call first tried it to prove the weight of the collections have call first tried it to prove the weight of the collections have call first tried it to prove the weight of the collections have call first tried it to prove the weight of the collections have call first tried it to prove the weight of the collections of the collections have call first tried it to prove the weight of the collections of the collections have call first tried it to prove the weight of the collections of the collections have call first tried it to prove the weight of the collections of the collections have called the collections and collections are collections as to be able to prove the provent to provent to prove the provent to prove the provent to provent to provent to provent to provent to been carried on sind. That time.

Old printed bod that time.

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I are frequently deficient completed, the first ster toward which index. This omission been made 3,000 years be ore, and which index. This omission been made 3,000 years be ore, and which it resemble in referring to respect the attention or at me of the great trouble in referring to respect the attention or at me of the great mains green. I have tried both methods, and find that to retain the leaf out I lose one-modern works, espectively those of a scientific modern works, espectively those of a scientific modern works, espectively those of a scientific what time or age of the world, or by the reliable and interval to the reliable and the reliable and interval to the reliable and interval to the reliable and the first ster toward which lose 5 per cent., not more than this amount.

The leaf will support the clid as long as it remains green. I have tried both methods, and find that to retain the leaf out I lose one-made and the reliable and n the valuable and inseresting instru-above plan it will save them several dollars called the thermometer was invented, that would be paid to tree peddlers. Trees the thickness of a common peacil are large JAS. HARMAN.

Labette County .

MILL SITE.

ather is semetimes sixteen to eighteen de- There are seven or eight stores and one print-Galileo (he who had he boldness to prees below zero. It is because the ocean ing office, two hotels and two blacksmith

> small flouring-mill. We have just what he wants here. There is a good site and seat here on the North Minnescah, four miles above the forks of the river. It is in a good locality. We are in need of a good mill, and JACOB CLEMMER.

Marshall, Sedgwick Co., Kansas.

EDITORS FARMER: In your issue of the 4th inst. D. M. Edgerton, Dayton, O., wants to find a site for a flouring mill, in Kaneas ; we are in need of just such an enterprise. Particulars will be given by addressing L. A. Bariteau, J. A Rodebauer, or G. Webb, Bertram Town Co.

Oberlin, Decatur Co., Kansas.

PEAR BUIGHT.

pear tree. I shall set out some pears right in will let you have a twig from their best fruit tion. I can blight, in Michigan, the state I came from here, any kind of fruit tree that buy only one of each kind wanted, and you grows. I have passed along the road, and Trego Co., Kansas.

Give us the theory, by all means. [EDS.] ABOUT BEADERS.

Your correspondent at Lawndale asks some

competent to answer, having had considerable experience with them in the last two years. I have out nearly one thousand acres of fall wheat with one

pay for the trouble it will make. I shall fall and winter. Again when the West and never consider it a cafe business to harvest the North and Southwest will come to appreless than the incidentals to the usual course. For fruit to supply this demand.

There is no need of sutting grain too green. One can wait until the harvest is half over with the binders, and then eaten them in a few days. When there can't be found any grain that will mash between the thumb and finger, and the heads have mostly surled, I think it is eafe, if the weather be dry, to commence heading. An experienced set of hands, mence beading. An experienced set of hands, is good weather and ordinary grain, can put over the country. Fruit growing with suc-up from thirty to forty acres per day with a come is now very promising all over Kansas. twelve-foot header. I averaged thirty agree But it is a business which should be well unthe harvest through this season.

county, and only one field of stabble fallen. Grain stands here, after being ripe, for weeks, without any great loss, other than threshing out by the wind. Bearded wheat suffers more from this cause than smooth varieties.

I find one hand and team can be saved by building stacks so that the empty wagen wifl commence to load at the stack, and complete its load by the time the machine gets around to the stack again, thereby saving any unnecsesary driving. Much time may be saved by cutting across the land and back again to the stack, leaving the empty wagon stand at the point where the header will begin to fill, after crossing this place on its return, thus saving any stopping. Much time is lost by stoppages to change wagons. The loader may spring from one box to the other without get-

ting down on the ground. Jo. DAVENPORT. Larned, Kansas,

### AROUND THE FARM .- No. IV.

The "improvement in corn gathering" that "C. W. J." saw in Illinois, is nothing new with me. I have practiced it for many years ; it seems strange that so large a number of the intelligent farmers, of Kansas should still be ignorant of it. The plan of

crib d by C. W. J., should become universal? The farmers have for the last few years been looking to the pork business as the one, which was to bring them their fortune, if their actions have been properly interpreted, and now comes this scourge and other causes to blast all their hopes. While I myself consider that pork is at the very best, but an inferior article of food, and that the law given to the Jews not to eat swine flesh, was based upon an unalterable physiological law, a law just as binding on physiological principles, to medern Christians, as it was to the ancient Jews we are willing to help toward building one. I believe the disease complained of is the result of the unhealthy, or in other words unphysiological condition in which they are bred, and fattened. The thought of the amount of disease and the seeds of disease that is eaten in pork and other flesh, by the human family at the present time, is really disgusting.

My advice, to farmers, under the circum stances is, pay more attention to your orchards. Make your plans to produce more good frait to supersade your pork Plant a large amount of such fruit as will be be- suited for I take you at your liberal word and will drying. And again such kinds and varieties past, and made failures more than successes. I in proper varieties will give the fruit grower sphere on the surface of thester, being above the bud, let stand until the next spring know a thing or two, perhaps. Well, to make an opportunity to dry fruit for many months teen pounds to the square ch. A cold and set cut in your orchard. Your fruit trees the story short, never cultivate nor manure a in the year. These too, among the fruits flourehing in Kaneas, are among the best adopted for this purpose.

The Black-cap Raspberries are an excellent fruit for drying, they dry rapidly, and are of a most excellent flavor when dried, either alone or when mixed with dried apples.

Peaches, when pains are taken to have them come in succession during their sesson, would give the dryer occupation for two or three months after the raspberry and wheat harvest, and surely they stand at the head of dried, as well as canned fruits.

By the time the peaches are all disposed of Mis

questions about beeders which I think I am the apple created will have an abundance of good trult for drying, if the varieties were preserly selected. Where there will be a large amount of peach are have cut nearly one thousand acres of fall large amount of peaches to work up, the early wheat with one.

My only difficulty is in protecting the stacks fall and winter varieties are selected that are from heavy rains, before they get settled. If saised for drying, they can be stored away and a stack once gets wet through, it will never used up as opportunity will afford, during the with a header until I have can vas covers for plate, and can get apple and other fruit bet-my stacks, which I think would cost much far, there will be another very great demand

derstood by those who undertake it. Let the I have seen but little lodged grain in this intelligent portion of Kansas farmers, who are readers of the FARMER, take vigorous hold of the subject. Let them, by their example as well as by their precepts, become educators of their neighbors who do not yet appreciate, nor understand the subject. Let these readers who have had experience in this business write more frequently and freely about their success and failures. By all means let the readers of the FARMER have all the information, on this subject which it is posgible to give them. What do you think of the subject ! Are my conclusions according to your views? Is there not a good prospect for proper [persons to freely and heartly engage in this business, to supply their own needs, fer elipment West to the mines in the moun-8. B. KOKANOUR.

Clay Center, Kansas.

Coughs and Colds Are Often Overlooked. A continuance for any length of time causes fritation of the lungs or some chronic throat disease. "Brown's Bronchial Troches" are an effectual cough remedy.

Excavations at Pompeii prove the city to have been one of the most rashionable and beautiful of Roman summer resorts, and but for the eruption it might have remained so to this day. As with Pompell, so with thousands of people who have beauty of form and feature. They migh: always be admired but feature. They might, siways be admired but for the eruption, that makes the face unsight-ly, and betrays the presence of scrofula, viru-lent blood poisons, or general debility. There is but one remedy that positively cures these is but one remedy shall positively cures these affections, and that remedy is Dr. Pierce's Golden Medical Discovery. It is the best known tonic, alterative and resolvent. It speedily cures pimples, blotches, liver spots, and all diseases arising from impoverished or impure blood. It also cures dyspepsia and regulates the liver and bowels. Sold by drangists.

WHITMAN'S DOUBLE CYLINDER CORN-

SHELLER On this page will be found a cut of Whit-man's Double Cylinder Power Corn Shelier, which its manufacturers positively agree "will do more and better work with the same power than any other sheller in use." It possesses the following merits: In the first place it has a second small qrilader which revolves in the same direction of the large one, and between these cylinders the corn is shelled without breaking the cobe or corn. The small cylinder prevents all choking, as is often the case with the stationary bar, assists in shelling, prevents breaking the cobe, permits the sheller to be stopped and started when filled with corn. The large cylinder is supplied with spiral rows of small chilled metal teeth, which in connection with the small cylinder, shell the corn entirely clean from the inder, shell the corn entirely clean from the the case with all machines shelling against s concave of bars. In this sheller the shelling is all done on the top side of the cylinder. Should a stone or any hard substance get into any damage being done to teeth or multi-It will shell all the corn from the matter how wet or tough it may be very lightly, shelling all the coches or corn. Cleans and separate Will run with small expense in or it is a perfect cleaner, leaving the feetly free from cheff or dirt. chaff and silk are blown off at sheller, while the cobe are dipend, leaving them free from dwellevator is attached at the end of or out of the way of the wagon or ced, and is made of two sizes, and one for loading into wagon SHEEP.

This sheller is manufactured ORSETS HIRE furnished to the trade of Kansal, Missouri by Trumbull, Reyno' wholesale agricultural houseard Pigs for sale. Cerlillesouri.

No. 100

As it is some time since I have seen anything in our paper from old Brown county, I evaporators that do the work with less lacor, send a few items. The weather has been very but I have never seen the quality as good. fine for some time, and consequently the corn The same may be said of steam evaporators. is about all gathered. Quality first-rate, but They leave the syrup with a greenish taste sequence of a terrible wind and rain storm in plain pan almost any one can make in a short July last. Fall wheat is excellent both in time. quantity and quality. Barley about an avermuch interested in the discussion on the chess, at earing time did the rest. question, but there is one fact (as we are after facte) I would like to have explained by those who believe that wheat does turn to cheat. Many years ago, when the writer was a boy in Central Ohio, fall barley was quite extensively grown, and the barley apparently turned to chess as readily as wheat, and it universally proved to be the same kind of chess the wheat produced in the change. Now, the question is, how can two kinds of grain, so different from each other, produce the same kind of weed? Fall wheat at this time looks very fine, and there has been probably something over an average amount sown. There months of November and December; I am good condition, and this snow (which is eight somewhat anxious to know the result. Markets at Hiawatha are as follows: wheat, 60 to 65c per bushel; corn 15 to 18c; rye 25; hoge, \$2 00 to 2 15 per cwt. ; cattle \$3 00 per BROWN.

From Ellis County.

The 17th was the coldest day on record in this county ; Farenheit 10° below zero. Snow about eight inches deep, commenced falling on the evening of the 11th continuing that night; (for the tax-payers) is passed. They com-This P M. snow falling again. It is estimated menced slaughtering at Atchison on the 12th, that there are thirty thousand acres of wheat sown this fall, in this county. We are very much in need of a good flouring mill at this point. We are under the necessity of paying treight on our wheat to go east to be floured, and then to bring the flour back, which makes a heavy tax on our bread. Wheat at this point is worth about 57c, and our flour costs us about \$2.75 per cwt. Corn is 50c per bushel; potatoes 50s; hogs dressed, \$5 per cwt. These are the retail prices, dealers pay less. Will some of the readers of the FARMER give information through that medium, how to grow peanuts. Those who are prevented from settling here by means of the Indian scare, are hereby informed that there has not been a hostile Indian within fifty miles of JOSEPH FULLER. this county.

From Wilson County.

Dec. 15.-Grim Boreas, from his home in the arctic, has sent so fierce a blast from his nostrils as to reach even our "Italian climate." in southern Kansas, and this Sabbath morn the snow lies four inches deep on the ground The streams are sealed in icy armor, and the thermometer stands away below zero. The poor stock, mostly without shelter here, stand shivering, chilled to the bone, a sight to make the heart of humanity ache with pity. Leaving economy out of the question, every Christian should provide shelter for his stock. The Greenbackers elected part of the county tick. et here, yet, strange to say, times are as hard as ever. No sale for hogs nor beef cattle, and wheat and corn at bottom prices. The farmw pressed to raise their taxes and as to paying store or doctor's bills, the thing is not to be thought of. A number of our farmers are still holding on to their hogs, but, alas! the prices are getting low. er instead of advancing. Some emigrants occasionally stop with us, and so involved are mest of our farmers, that they (the new-comers) can purchase at their own figures, and would they believe it, they can invest their money to better advantage than by going on to the far frontier and purchasing raw lands. Had I ten thousand dollars at hand, 1 should certainly not hesitate to invest it right here in farm or town property, and consider it a most safe and profitable investment, as farms can now be got for what the improvements have cost. And new a word as to our town, Altoons. We have a brisk little village of 300 inabitants, with two dry goods stores, two hotels, one hardware store, one saloon, at present under the ban of our temperance county commissioners, but still furnishes a variety of juices, all said to be equeezed from the innocent apple. One drug store which dispenses medicated liquors, drugs, etc. One shoemaker, a very good one but who is not equal to the demands of his large-footed patrone, and consequently we need another good, active, accommodating fellow, who will look to our hole-y places and save our soles. We have a lawyer who has met with deserved sucor he is a rarety not often found, a strict-

From Linn County.

attorney.

see that some inquiries are made orghum and the best kinds. I tell what I know about it. nd manufactured it on a small er of years. Last year I pro-

J. G. LONG, M. D.

Minnesota Amber cane, and al I think it the best I have uice is, I think, 25 per cont. ther, and the yield of juice is best I have ever seen, being Qavored. It shows a disposi-

better than the simple pan made with wooden sides and galvanized iron bottom, holding from 40 to 60 gallons of juice, and a common furnace, boiling down steadily and quickly without re-filling till done. There are patent

The corn crop in this vicinity is light. Ex-

From Doniphan County.

Dec. 15 - Winter has set in and it is quite wintery. Sleighing and hunting is the order of the day among farmers. Corn is nearly all cribbed. It was a poor yield here where the storm struck it-not more than half a crop. The average is not above thirty bushels. The crop was not as good where there was no storm as it was last year. Some people think the tassle was injured by the extremely hot weather. Stock of all kinds in our vicinity is doing well. Cattle and hoge are fattening better than usual, probably owing to the fall being dryer than usual. Fall wheat is in advantage to it. Every one is complaining of hard times, and many blame it on the resumption of specie payment -- as convenient a reason as any. Tax-paying time is at hand, and stalks; some contend it is smut; others blame where is the money to come from? is the chintz-bugs, etc. question. We had hoped that the opening of the Atchison pork house would have raised the price of pork, but it is not very likely that such will be the case until the day of grace

Prem White Cloud, Doniphan Co. Dec. 24 -We have had the finest fall for work that I have ever seen. I have been live ing in Kansas twenty-one years. Corn all housed : stock doing well ; no disease · no hog cholers this fall and winter. Fall wheat was good, averaging 40 bushels. Spring wheat almost a total failure-7 bushels per acre Corp 40 bushels; barley and oats a slim crop Fall wheat is worth 65 cents, spring do. 35 to to 40 cents, corn 15 cents, oats 121/2 cents, bar ley 30 cents, potatoes 25 cents. The apple crop was light, peaches fair. Hogs are selling at \$2 15, beef on foot at \$2 25. The universal cry is hard times, but it is a long lane that eas no turn. We wish we could come to the turn, for some of us are getting weak in the G. A. B.

From Leavenworth County.

Dec. 17th .- This morning was the coldest of the season-mercury 2 degrees above zero Snow full 16 inches deep and fearfully drifted. On the morning of the 11th ice was first seen in the river, and has been freezing ever since. The farmers seem much pleased by this fall of snow. The ground was very dry, The wheat made slow growth this fall and looked weakly generally. There is about twenty per cent. of the old wheat on hand. A number weevel, but there [was not much loss on this account, for they got better prices than those get who are selling now. They received 75@

All products except beef are very low. Corn, 24@26c; hay, \$5 to \$7 per ton, delivered; pork, nett, \$2 to \$2.75; potatoes, 30 to

People are expecting better times, but I see nothing to warrant higher prices. What we sell is low in price, and what we buy is low also. Money is scarce among the people.

Farmers pay \$10 to \$16 for laborers, giving according to the character, or strength, of the hand hired.

The M., P. railroad passing here has had about double the usual number of trains run ning for the last two months, much railroad iron and coal, farming utensils and railroad ties being shipped west, and grain, hogs and cattle shipped east. It is surprising to us to see so many extra rains running, for some time past, carrying produce, and certainly its value in cash will help the people in the region from whence it is sent. Much of this freight comes over the Central Branch.

Our county being bounded by the river on the north and east, has many advantages as to markets, coal and timber; yet as we are burdened with taxes and owe so great an amount of railroad bonds, real estate is not sought on this account. How we are to get along we know net. We almost dread the future. Although the bonds, in most instances, were gotten by the present owners at very low figures, they are striving to get the last cent the bonds call for.

There is no government land in this county. and the land is generally held in small tracts. and the farmers' main business is to raise wheat, corn, hoge and fruit. Our hogs are mainly Poland Chinas and Black Berkshires. Many that had from one to two hundred are feeling badly and complaining bitterly.

Such farmers as had trees of the following varieties, viz: Wine Sap, Limber Twig, Genet and Romanite, had plenty of apples other; making it cheaper to The fine varieties of peaches do but little good here is less boiling. The in this region; the common were badly sun-

burnt and not salable at any price. Schools are well attended; churches not; suicide is common. Crime is on the increase re than any I have ever The rich creep through the meshes of the know of no evaporator law; the poor are caught. SHABPB.

From Shawnee County.

"Place For a Tree," in a late number of the FARMER, and can't help writing a few lines himself that the latter gives the most it on that subject.

It may seem to many that planting trees just now is a little out of order. But why can't we have windbreaks, or at least put ourselves in readiness to grow them? Now is the scarcely an average crop in quantity, in cont that I do not like, and they cost more than the time to procure cottonwood cuttings. From this year's growth cut them about twelve inches long, and lay them in the cellar, or any other cool place, entirely covered up with age crop; oats good; rye poor; stock of all cessive rains in the spring rotted the seed or moist sand, then plant them out in the spring kinds in excellent condition. I have been prevented planting, and the very dry weather about eight feet in the row, and cultivate just as you would corn. Lombardy popler may be treated in the same way. And while you are at it, procure a few grape-vine cuttings. I consider Concord the best.

We, in this corner of the world, know only too well the value of a windbreak, but let us have more of them .

With such an enterprising and reliable pa per as the FARMER to lead us, we surely cannot go astray; and if it is not for us to show the noble men at its head how we appreciate their efforts, let us, at least encourage them by renewing our subscription before the year FARMER. draws to an end.

From Marshall County.

Dec. 2d .- The farmers in this part of the state are losing a great many cattle. One of my neighbors has lost as many as thirteen, and there are very few who have not lost some. Some think the cause is dry corn-

The chief cry here is, "Hogs worth nothing and still going down."

Respectfully, THOS. SCANLAN.

From Brewn County.

Dec. 16th .- Mr. D. M. Edgerton can find an excellent site for a flouring-mill in this place. It is one of the best wheat-growing counties; has no mill nigher than Hiawatha and Severance, ten miles each way. South and north there is no mill nigher than ten or fitteen miles. There was formerly a mill at this place, and it burned down, and the parties were not able to rebuild it again. It is an important trading point, and a small flourings mill will pay.

This place is situated on the St. Joe & Dener City railroad, about thirty miles west of St. Joe, Mo.

I have worked at the business some, and believe that a small steam-mill would pay D. R. JANES.

From Harvey County.

Dec 20 .- Old winter has settled down upon us in earnest, and the ice harvest is in full blast, while the abundant carpet of snow that covers our wheat-fields, gives promise of more plentiful and profitable harvest in the future. We have less acreage in wheat than it may prove remunerative and decided last year, but it was better put in and is in itable, the season does come occasionally better condition now then it was a year ago, the reverse is the fact. The failure t so that we feel hopeful. We have had a season in the southern part of this state fine crop of small fruit and of peaches the cure No. 1 wheat, adds force to our form past year, (as we also had the year before gestions on the sulject, and demonstrate when the trees, bushes and vines were old it is not wisdom for farmers whose acr enough), and the late dry fall has ripened up limited in numbers and incumbered wit the fruit twigs and bude finely, so that it will turing obligations, to solely rely on s were induced to sell their crops on account of require heavy freezing to kill them. This crop of wheat to bridge over the chast part of the state has improved remarkably the tween debt and independence. Many fa past season, both in population and in evi- in this state have realized, to their sorro dences of prosperity. Go where you will in fallacy of one-idea farming. A failure 78c, and the best now is worth but 70c per the country, you will find numerous comfort. cure a good crop of wheat has proved as in moulds to cool. engrounded by a net-work of thrifty young fruit and forest trees, while the surrounding out-buildings remind us that the comfort and interest of the domestic animals are not overlooked. Or if you call at our little, live city, Newton, you will be surprised at the throng of busy people, the multitudes of teams upon the streets, the constant hum of business, and the evidences of prosperity that meet you everywhere, and that surprise will grow upon you perceptibly when you recollect that this young city of over 2000 inhabitants has sprung into existence within seven years, and it is thus that the Arkansas valley is rapidly being redeemed from its primitive wildness and chaotic waste. H. A. E.

ALL SORTS.

Mr. Littledale, who has a farm on the Merey,opposite Liverpool, England, keeps eighty five cows and fifteen working horses on the produce of eighty acres of land. One acre o and to support a cow is considered a small pattern in America. This fact shows what horough cultivation will do.

At West Bridegwater, the Farmers' Club has declared against horse-racing at fairs, by a lecided majority.

Six hundred breeders were present at the reent auction in the north of Scotland, of Mr. Comber's celebrated Tillyfour herd of Polled cattle. The leading feature of the sale was the dispersion of the females of the famous Pride family, consisting of five cows, one two-year old heifer, four yearling heifers, and two theer calves, and for these twelve the average obtained was no less than £63 14s each. Taking all the families together, 16 cows brought an average of £54 17s; three two-year-old heifers. £37 2s; ten yearling heifers, £40 10s; elx heifer calves, £33 15 .; three bulls, £50 Ss. ; and six bull calves, £27 2s. The total receipts for forty-four animals was £917. or an average of £43 11s each. The group which carried the two \$500 prizes at the Paris Exhibition was retained.

Farmer Mechi declares that anybody who will sow an acre of wheat after the general

and another alongside of it shis fashion Dec 24th,-I was interested in the article- of thin seeding and thoroughture, will need only one season's experien convince profitable returns.

> Pear-growing seems a suc Georgia. large quantities being profit hipped to northern markets. Seckel, Bar and Duchess are the kinds named, and t ount Vernon is referred to as promising

> > coast of

Guano is found only on the

South America; the absence n and a tion. Peru, until recently, he the mo-nopoly of the guano trade. Theent dis-covery of guano trade. covery of guano at M. jillones, of frontier of Chili and Bolivia, has brou orward a compitition in this trade—an ident fact, inasmuch as the yield of Peruvisiano has certainly fallen off since 1865, high the Peruvian government derives annual profit of \$20 000 000 from its guamopoly. There were 100,000 tons of guakported from Peru in 1873 By a recent triBolivia and Chili have arranged for the mement and equal division of the gnane sit on their frontier, between the 24th ach degrees of south latitude, and, on 5th of January, 1876, there will be soldoublic auction to the highest bidder thermous amount of 400,000 tons, to be expet the rate of not less than 60 000 tons a The official notice of the Chilian go ent of this sale has been published in th rapapers of London, Paris, Hamburg, I Nantiago and Valparaiso. The sale take place in Santiago, the Capital of C

The American Farmer says : A party who claims to have exp argely with it, claims that a mixtur equal parts of red pepper, alum, resi phur, will cure chicken cholera. blespoonful of this mixture in thre scalded meal daily, and the chicks wet well speedily.

Vick says that in the majority of chards nearly half of the fruit is not ble, and this is the legitimate result of rance or carelessness. Trees are alloo grow as they please, producing, in many such dense heads as to prevent proper aty of fruit; they are allowed to out producing a few good specimens and a many poor ones. We must learn to git trees judicious pruning, remove all fruit as soon as it is set, leaving on only the tree can mature, give good culture dress with proper food-and then we wi spoil three barrels by selecting one fit to any market. When Americans learn to grow, and pick, and pack apples pro we shall have an almost unlimited an

ceedingly profitable market in Europe. To place sole dependance on a single wheat for instance,) although in some a many, will not be able to recover.

olis Tribune Some of the very best minds and close ervers seriously doubt the advantages collegiate education under our present eral system. The boy goes from the and enters college; he remains four years returns in thousands of cases practically pacitated for the duties of life. He has ruined, not by education, but by the ma of imparting it. The college or univer through which he has passed, and whose nothing of practical life, and has been rounded by young men who have been res in a different sphere, and one in which m ual labor is possibly despised. Such you men are usually from the cities. Five you city bloods with their "airs" and fashions glitter, are enough to ruin all the stude that you can get into a cellege from our far and workshops, and this is perfectly natur If virtue attempts to associate regularly w vice, vice will triumph in the end, for wor will always be weakened by regular conts with its opposite. This rule works mo disastrously when our solid country boys a thrown in contact with city young men. Western Rural

FACTS OF INTEREST.

D. N Kern, of Lehigh, Pa., gives a word of good advice through the Ohio Farmer, on selecting seed corn. He says:

"I have made a great many experiments with corn within the last fifteen years. I had fourteen different kinds, and this year I got some of the largest ears I ever raised. I always select my seed corn in the fall, at husk. ing time, and in the spring I sort them over again. Last spring I took no ears that were less than twelve inches long; then I took off three inches at the tip end and two inches at the butt end, and from these central grains I got ears fifteen inches long and from fourteen plan of "thick seeding to smother the weeds," to sixteen rows. Several years ago I selected co-

was not nearly so satisfactory as from ing only central grains. My opinion is, mers would be a little more careful in ing their seed-corn they could raise from o ten bushels more per acre than they do they pick it out of the crib in the

Morris, of Susquehanna county, Pa., adkeeping calves stabled the first year. calf is turned out the first summor to figh the flies and get its living as best it can, be stunted right at the start, and will ecover the lost time. Instead of turning ibut in pasture, put it in a stable not too light ud feed regularly, and it will pay well. If thewas the universal practice, we should have es of little Jerseys or little stock of any bed. If you must starve them, it had betterne the second summer. But better keep am growing all the time."

ame gentleman gives the following pointer a good cow:

ld commence with her muzzle; give eg, thin, fine head, with a fine, clear eye, who a fine, clear horn, with a low fore should with a heavy heart-because there is wer the machinery is at work, for she is nothing anywhere but machinery—and then run to with a broad hip. I do not care wheter he bones on the side of the tail are droop or not. Then with the average milkbag, ad large vein, you are very sure of baving a pod cow, if well kept up. You do not look as you look for beef. When need you log for beef you want to get a strong head at good veins, the whole running well throughthe body. You will find that a poor milker as very small veine. A large milker has ve large veins. The veins are large, runningback. That is one point. The color of her an indicates very much the richness of her alk."

PORK CELE, THE PAMOUS SEVEY-FIVE DOLLAR RECIPE.

One gelen water, 1 1 2 pounds bearivers pool sal 11.2 pounds brown gar, half ounce perl-ash, half ounse saltre. Place in a kettle and bring to shoil point; afterward sim. This is suppose be the best pickle for ork known, and it on barrels are used, and he meat good indealthy, it will keep for years.

BEEF PICKLE, T KNOWN. Rub each piece of f very lightly with salt, let them lie singly a tray or board for twenty-four hours, after ich wipe them very very dry. Pack them clly in a tub, taking care that it is perfectly jet and clean. Have a pickle of the following ady, and when perfectly cold, pour it onle beef, laying a weight on the top to kethe meat under the pickle. The quantity en is sufficient for

100 pounds of beef, if chly packed: Soft water....

Skim very clean whiboiling.

ORANGE JELLY .- Tu six large juicy ora anges and one lemon, e pound of loaf sugar and half an ounce orelatine; dissolve the sugar in half a pint water; pour half a pint of boiling water er the gelatine; when dissolved, strain it; puhe sugar and water on the fire; when it bo add the gelatine, the juice of the oranges a lemon, with a little of the peel; let it boup, and then strain it

of embarrassment from which many, Fig Roly Puppind One pound flour, six ounces fresh beef-su half teaspoenful of salt, one pound f one teaspoonful of baking-powder. Chithe suet very fine, and emove all strings; u well with the flour, salt, and baking-powr; make into a paste with iced water, and ll out in a sheet. Cut he figs into long slip, cover the paste with hem, tie in a cloth, d boil in fast boiling water two hours.

ROAST GOOSE .- le goose should not be tore than eight mehs old, and the fatter ploms he holds, has been so thoroughly he more tender a juicy the meat. A vorced from manual labor, as almost to a green" goose (for months old) is the to be opposed to it. The boy and young choicest. Kill at last twenty four hours has been educated by young men who keefore cooking; co the neck close to the ack, beat the brea-bone flat with a rollgpin, tie the wingind legs securely, and uff with the following mixture : three pints ead crumbs, six inces butter or part but, rand part saltport wo chopped onions, one aspoon each of ge, black pepper and

it. Do not stuffery full, and stitch serely together togep flavor in and fat out the goose is not; lard it with salt pork, tie a slice on the breast. Place in bak--pan with a lie water, and baste freenty with salt at water (some add onions d some vinegar turning often so that the es and back ny all be nicely browned. ten nearly doe baste with butter and a flour. Bakewo hours, or more it old; done take om the pan, pour off the nd to the own gravy left add the ped giblets nich have previously been it till tende together with the water vere boiled in; thicken with a little nd butten ibbed together, bring to a nd serve ith currant jelly. Apple and onion sauce are proper accoments to past goose.—Mrs. J. H. , Maryalle, Ohio.

ery las uriosity spoken of in the seis a whel that came off a dog's tail was a agin'. The man who disit has tired from public life.

LET fact mak

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### Patrons of Husbandr

KANBAS STATE GRANGE. - Master: Wm.

OFFICERS OF THE NATIONAL GRANGE.
Samuel E. Adams, of Minnesota; Secretary,
Relley, Louisville, Kenucky; Treasurer, P.
Dowell, Wayne, N. Y.

COLORADO STATE GRANGE -- Master; Levenver. Lecturer: J. W. Hammett, Plattevil Missouri Statz Grange — Master: H. Est Hanover, Jefferson county. Secretary; A. M. Knob Noster.

TO OFFICERS OF SUBORDINATE GR

For the use of Subordinate Granges we hav of receipt and order books which will pre-counts getting mixed up or confared. They Receipts for Dues. 2nd Secretary's Receipts Orders on Treasurer. The set will be sent address, postage paid for \$1.00.

We solicit from Patrons, communications r the Order. Notices of New Elections, Feasts lations and a description of all subjects of ge special interest to Patrons.

LETTER FROM WORTHY MASTE SIMS, TO THE PATRONS OF KAN EDITORS FARMER: It being a wel fact that all organizations of public c make their greatest growth, flourish t accomplish more in the advancemen purposes of their organization, du season of the year in which the minder tho for whose benefit such organizaties has time least employed in the ordinary time, to call the attention of our methershi son f to the fact that this is the leisure for its specific object the improvement at protection and the advancement of the ge eral interest of those directly interested in a ricultural pursuits.

of your paper, to call the attention of or membership to the fat that the national at state granges have done the work of their s nual sessions, and have published their pr ceedings, from which ll may learn the action taken and recommendations made by them r spectively. This being done, the work nec sary to a correct undestanding and the st cessful prosecution of the work of our ord now devolves upon the membership thron our county and suborinate granges.

Now is the time foractive, aggressive p. ditable work, withit as well as within gran, e room. We sould improve the opp tunity offered-by leg winter eveningsmeeting, not only in the grange, but with oneighbor farmers, we have not as yet uni with our order, and y fair examination proper discussion o our organic law "Declaration of Puloses," seek to impr upon the minds of at the importance of ganization among farers, as a means nee sary to enable us to iffuse among ourse that information esatial to the more s cessful prosecution our business as ducers, and to secul that unity of act necessary to success it he improvement better protection of a productive interest the country, and at the ame time fit and q ify ourselves for the me intelligent dischap of the duties devolvin upon us as citizens

Our order being fouled upon correct p ciples, has nothing to by from investigation Our organic law and Declaration of Hsire all to read and excine them, and th. safter that, give them the consideration ned culated to perpetuate our organization, sary to a correct undersading of the pride as the only safe and cetain road to ples and purposes of our ganization. Sadd cess.

space in their columns.

#### WORTHY MASTER ADDRESS. Delivered at the Seventrent Annual See the Kansas btate range

Officers and Mem'ers Kansas Grange:—Under the blettings of ou vine Master we are pertited at the indicated in our organic la, to assembly who we have appeal easily.

work in hand.

A RETROSPECTIVI VIEW

Of our order and of its prictical workings and results in this state, hile not entirely satisfactory, is full of interest and encour-agement in this, that it emonstrates the truth of the oft-repeated assertion that in many localities we organied too rapidlyrapidly than we edicated-and as a result many came into ou order under a misapprehension of its tue objects, aims and purposes, and meetingwith disappoint-ment very naturally dropped out and that too before they had any corect conception of the fundamental principles of the organization; and to this cause is largely atributable the heavy fallingoff in our mempership in many localities. In other localties where we find substantial growth and ract steady progress in the proper application of t as our principles to the affairspf life, we find of that our membership have been better ing tormed as to the causes with contributed o make necessary and bring about our or ranization, and as to the ues and purposes or which it was intended and to which it is been gotten up, are least absorbed and the suited. In other words, we find that in proof life. I therefore deem it necessar at threeded the suggestions and practiced the precepts of our order, we have increased in rength, secured advantages and realized he advancement promised in our declarafarmers, hence the time for talkin up thion of jurposes, which we accept as proof principles and advancing the purposes positive of the correctness and practicabilithe order of the patrens of husbandry—thy of the principles underlying our order, only organization known among the having of an expensive o

In view of the facts above cited, I deem t of im ortance to the well re of our order, and theefore commend to your favorable consideration, the expediency of adopting Permit me, therefore, through the column this session some general plan for the open paper, to call the attention of opromination, not only among our membership to the tall that the national ambip by agriculturalists generally, of the membership to the tall that the national ambip by agriculturalists generally, of the membership to the tall that the national ambip by agriculturalists generally, of the membership to the tall that the national ambip by agriculturalists generally, of the membership to the tall that the national ambip by agriculturalists generally. standiz of the objects, aims, principles and purpers of our organization and the means to be apployed in their accomplishment.

correctness of our principles has nev seriously questioned. Their practi among farmers is the great obstacle less urged by those outside, an 1 un-ately by some within our gates; but jection is fast losing its force, by reason the success now being attained un-der e proper application of our principles to biness affairs, and when fully under storand properly applied prejudice will be moved, satisfactory results reached and eneral success will arend our efforts. order, being an outgrowth of the necesses of the times and founded as it is upd principles of justice, cannot, when unctood, fail in the accomplishment of the rposes of its organization; yet, like all ter orders and associations of whatever aracter-religious, charitable, educa tion protect ve and political-successful ress can be obtained only through conpersistent and combined effort ex through organization. As taught in thessons of our order, organization is es sent to success in all matters relating to beneral welfare. Every advance made ince world's progress has been made by nization. The his ory of the world is hihe history of organization, and demon stes alike its necessity and its benefi-

cce. I therefore desire to impress upon , and through you upon the minds of membership throughout the state, the poses," being in plain rdinary language, so the susceptible of but one onstruction. Western all to read and excine them, and the claration of purposes, as the means best

ples and purposes of outrigatization. Shed you agree with us in beliving such an orgization necessary; that ar principles are rect, and the means we ropose to emploin the accomplishment of the purposes of outrigation, are legitime, proper and practally those underlying co operation, the ganization, are legitime, proper and practally those underlying co operation, the eat lever power through which we obtain the granges, it would say their view of the standard of the original aims and purposes, I would say their view of the standard of the reports of our worthy secretary and casurer, and the reports of the officers of grange, directing the repration of all their state co-operative association, and comdormant granges to got standing, with tend them to your thoughtful consideration, ling anew the fire necessary to the re-orgic.

cost, I think this the opertune time for headen.

CO-OPERATION

ling anew the fire necessary to the re-organization and perpetuation cyour local organizations.

WM. SIN Cochdale plan, heretofore adopted by this cochdale plan, heretofore ado ceedings of the state gage and all olages of the communications relating tour order, we reas their judgment may i of sufficient bership in our order. I therefore commend portance to their readers o entitle the to your favorable consideration the propri-W. ety of so amending the recommendations heretofore made on this subject, as to permit and invite those whose interests are in timately connected with our interest, and with whom co-operation would be mutually advantageous, to unite with us in our busi-

On the subject of

WHOLESALE OR STATE CO-OPERATION

annual session.

You have convened not herely for purpose of renewing frienthips and tending acquaintance, but in the disse of important duties devolve upon the chosen representatives of the bership of our order in this ate. Yis here for the purpose of rewing the and, by careful comparison the call workings in your respected locals our organic law, and the remmenss and suggestions heretofore made is I find nothing in the experience of the year

their wants and necessary to thorough and complete success, the latter being the natural outgrowth of the demands of trade and the development of our co-operative principles.

#### REPORTS.

Our worthy secretary and treasurer will in due time lay before you their respective reports, from which you will learn the cond tion of our order—the receipts and disbursements during the year, and the present condition of the treasury. With this information before you, you will be able to go forward, intelligently, in mapping out work for the year and fixing the compensation of vour officers.

From the reports of the executive committee and the officers of our life insurance association, you will learn the action taken and progress made in their respective departments during the year.

CONSTITUTIONAL AMENDMENT.

At the tweifth session of the National grange, held at Richmond, Va., last month, the following amendment to our national constitution was recommended and submit ted to the states for ratification, to wit Amend section 1, article 8, of the constitu tion, by striking out the word 'ten' and in serting in place thereof the word 'five.'

The effect of the above proposed amendment being apparent, I herewith submit the same for your careful consideration, ratification or rejection, without comment.

#### DORMANT GRANGES.

At the same session of the National grange it was ordered that all past-due fees and dues of dormant granges be remitted, and that such granges be required to pay dues only from the date of their reorganization on the number of members by them reported; and the digest was ordered to be amended accordingly.

How can we most effectively, with the

means at our command, revive our dormant granges? This is a question of first importance in the work of this session, and I trust will receive your thoughtful consideration; and believing, as I do, that the representatives from the different sections of the state, by reason of their observation and experience in their respective localities, are better qualified to give proper direction in this important matter than any one individual, I refrain from making any recommendations upon the subject as to means to be employed, but suggest the appointment of a committee, to whom should be referred all matters relating thereto, and that said committee report their findings, with recommendations to this body for final

#### GRANGE PRINCIPLES.

While this may not be considered a proper time or place for lecturing upon grange principles. I cannot refrain, in this the last communication I shall have the honor as vou presing officer of presenting for your consideration, from making such remarks and suggestions as suggest themselves to my mind relating to the importance of our organization—its bearing upon the general welfare, and the policy best calculated to promote its usefulness and guarantee its erpetuation.

First-Our organization is important because it is the only organization known in this country having for its object the mental, moral and social improvement of those directly interested in agricultural pursuits, and as a means necessary to the accom-plishment of this purpose, the better protection and advancement of their material in-

Second-It is important because it furnishes the best facilities for the general exof oninions and views upon subjects relating directly to agriculture, necessary to a correct understanding and the more suc-cessful prosecution of our business as producers; and, also, for the proper consideration of questions of public policy and political economy, necessary to that understanding of public affairs and the methods of self-government to enable us intelligently to discharge the duties devolving upon us as citizens, while at the same time it furnishes ample facilities for the cultivation of the social amenities of civilized life, and for

Third—I is important because it is based upon, and seeks the advancement of, that great productive industry of the country, agriculture, the foundation and support of all other ipdustries and the true basis of our life industries.

The industries are the sound in the industry of the country, agriculture, the foundation and support of all other ipdustries and the true basis of our life industries.

Third—I is important because it is based without a single failure we are now propared to our earner in the industries and warrant a country, agriculture, the foundation and support of all other ipdustries and the true basis of our life industries.

Its influence upon the general welfare is Its influence upon the general welfare is good in this, that we seek the greatest good to the greatest number; and, holding as we do that a government based upon the will of the majority can be a good government only in proportion to the intelligence of its people, we believe it to be eminently proper that we as agriculturalists representing er that we, as agriculturalists, representing as we do about one-half of our entire pop-ulation, should take that interest in our public affairs which the importance of our call-ng and our interest in common with other citizens would seem to indicate to be necessary and proper, and that by thorough in-vestigation seek to arrive at correct conclusions on all questions relating to the general welfare and pro perity of our common country.

### AGRICULTURE.

In order more forcibly to impress upon our minds the importance of the responsi-

Maria Land

body, relating to our ecoordative plans, to discover what; if any, alter ions or amendments are necessary to conflete success in the development of the true objects, aims, principles and purposes of principles and purposes of bring into more general upperation, the business arm ito; also, to provide by aption for a more vigorous properation of the work in hand.

in trade of the retail establishment, just as the latter are the stock in trade of the members, there is unity of interests, which alone bers, the latter are the stock in trade of the mem-there is unity of interests, which alone bers, there is unity of interests, which alone bers, there is unity of interests, which a houses of the kind and character suited to and bulwark—themselves the willing subjects of law, and therefore its safest and strongest administers."

> At a regular meeting of Capital Grange held at their hall in Topeka, December 28th, the following were elected officers for the ensuing year: Master, H. Freeman; overseer, J. H. Warren; lecturer, W. W. Cone; steward, S. W. Wilder; assistant-steward, M. A. Campdoras; chaplain, George Hutchinson; treas urer, Mrs. B. A. Otis; secretary, Geo. E. Fianders; G. K., John Armstrong; ceres, Mrs. M. E. Pratt; pomona, Miss M. E Dadley; flora, Miss Fannie Cole; lady assistant-steward, Miss Nellie Little; librarian, Miss L. W. W. C.

#### ADVERTISEMENTS.

Our roaders replying to advertisement in the Farmer - 40 us a favor if they will state in their letters - advertisers that they saw this

### NURSERY STOCK.

General Assortment. Stock first-class. Lowest rates. Apple trees and Orange plants in large quantities. Special rates by the car-inad. Send for Price Lists to E. F. CADWALLADER, Miami County Nurseries, Louisburgu, Kansas.

### Shannon Hill Stock Farm

ATCHISON, KANSAS, Thoroughbred Shert-Horn Durham Cattle, of Straight Herd Book Pedigree, bred and for sate. Also Berkshire pigs bred from imported and premium stock, for sale singly, or in pairs not akin. Persons desiring to visit tals farm, by calling on Mr G. W. Glick, in the city of Athlison, will be conveyed to and from the farm free of charge. Address, GLICK & CARMICHAEL.

# M. W. DUNHAM'S ${f HORSES}.$



WINNERS OF THE Grand Prizes in Europe and America.

vaided Grand Medals by the French Government, and also Grand Meda', Diploma and Special Report at the CENTENNIAL EXHIBITION, 1876.

The Largest and Most Complete Establishment of of the kind in AMERICA. SINCE 1872, HUNDRED & SIXTY-SIX IMPORTED MARES and STALLIONS My Catalogue, with history and breed, sent free M. W. DUNHAM,

### VERY IMPORTANT

# Sheep Farmers

Wayne, DuPage Co . Ills.



offering for sale a choice lot of No. 1 Poland China and Berkshire Pigs, (recorded stock) at reasonable figures. Parties wishing to purchase will call on or address me. All pigs warrauted FIRST-CLASS, and shipped on recipt o price.

J. V. RANDOLPH, Emporia, Lyon county, Kaneas.



lerkshires and Cotswolds. [ Itchett's Be

#### Breeders' Directory.

AMUEL JEWETT, Merino stock farm, Indepensionate Mo, breeder of Spanish Merino steep, ram-constantly on hand at reasonable prices. Call and see them or write for particular.

E. T. FROWE, Anburn, Shawnee Co., Kansas, for sale; call and see them or write; prices reasonable.

C. S. ElCHHOLTZ, breeder of Short-Horns, Berk-shires and Bronze Turkeys, Wichita, Kansas.

O BADDERS, Leavenworth, Kan., Breeds Black Cochin & Brown Leghorns. Stock not sur passed in America. Send for descriptive circular and price list.

DR. W. H. H. CUNDIFF, Pleasant Hill. Cass Co.
Mo. breeder of thoroughbred Short-Horn Cattle
of feshionable strains. The bull at head of herd
weighs 3000 pounds. Choice bulls and helieve for sale
Correspondence solicited.

J. R. DUNLAP & Co., IOLA, KAS., Breeder of pure Poland-China Hogs and P. Cochins, Light and Bark Brahmas, and B. B. R. Game, Bantam Fowls, Stock first-class. Write for prices.

J. BELL & SON. Brighton Macoupin County, III-inois. Breeders and Dealers in Spanish Merino Sheep. Thirty-five miles from St Louis on the Alton and St. Louis Railroad. Stock reliable; prices rea-sonable, Reference furnished.

FOR Choice Merino Rame and E ves. Also Imported Canana Cotswolds at Moderate Prices. Address, A. B. MATTHEWS, Kansas City, Mo.

HALL BRO'S, Ann Arbor, Mich., make a specialty of breeding the choicest strains of Poland-China, Suffolk, Essex and Berkshire pigs. Present prices % less than last card rates. Satisfaction guaranteed. A few splendid pigs, jilts and boars now ready.

#### Nurserymen's Directory.

ANSAS HOME NURSERY offer the largest assort-ment of the most exclusively HOME GROWN rult and Ornamental Trees, Vines, Roses, Oranga juinces, Apple seedlings, No 1 and extra large, send tamp for samples. A. H. & H. C. GRIESA, Law-nice, Kanzas.

A. WHITCOMB, Lawrence, Kansas, Florist Cata-logue of Greenhouse and bedding plants, free.

#### Dentists.

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

#### PHYSICIAN.

Mrs Debora K. Long-hore, M. D., late of Phila-delphia, Pa. Office and residence on Topeka Ave-nue, first door south of Tenth Street, West Side.

GOLDAny worker can make \$12 a day at home. Costly

HENTIC & SPERRY.

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TOPEKA, KANSAS. Practice in Federal & State Courts York City. GEO. M. CHASE,

KANSAS CITY, MISSOURI, Mon. Drainag

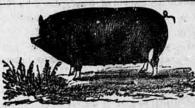
Thoroughbred Englishpany,

BERKSHIRE PIG Traps.

Durk Brahma and White Leghors

Chickens.

None but first-class s'ock shipped.



I am now off ring a choice lot of No. 1

# English Berkshire Pigs.

recorded Smithereen and Lord Liverpool Stock, at reasonable figures. Also pure White Leghorn Chickens. Rverything warranted first-class, and supped. B H CROMWELL. Westport, Jackson County, Mo.

### CREEK VALLEY FARM HERD.



Thoroughired Berkshires, consisting of 2:5 head: 168 summer pigs mainly the get of the grand imported hoar, 'Stockwell,' brother to the ismous ist prize and Swe-pstake hoar,' Royal Hopewell,' bred by same party, (Wm Hewer, Eng.) and imported at the same time Stockwell was awarded 1st premium at the Kaw Valley Fair, Lawrence, Es. 1878 and 2nd premium in Sweepstakes for best boar of a lage or breed at the Kansas City Exposition, 1878, lang the only time he has been shown.

My pigs are from Registered sows, and those eligible to registry; are of excellent breeding, and (what is of still g carer importance) of excellent form. The number of pigs I have will enable me to ship only choice ones, and at Specie Basis orices.

Parties from a distance destring to inspect my hard in person, will be conveyed from and to depot free of charge, where notice is given. I have never had a better lot of pigs than now; and as formerly, shall guarantee satistaction to all purchasing on order. Address, SOLON ROGERS, Prairie Centre, Johnson o., Kansas.

THO'S. H. CAVANAUGH.



HEREFORD CATTLE. COTSWOLD SHEEP. BERKSHIRE and DORSETSHIRE PIGS.

sium Castle, Sheep and Pigs for sale

No 21

## THE KANSAS FARMER.

IANUARY ONLY.

1879.

THE OLD RELIABLE.

### THE KANSAS FARMER

FOR 1879-

year January 1st, 1879. The publishers will give the readers for 1879, the best volume of in one room, with the remnant saved from the farm and family literature ever made in the wreck of that cycle of great presperity but west. We present, herewith, some splendid erest. We present, nerewith, some spiendid and independence is better than debts and independence is better than debts and duns in a palace, to an honest man.

SUBSCRIPTION PRICE. 8 months (18 papers) to any addresses, 50c. 6 months (26 papers) to any addresses, \$1 00. 1 year (52 papers) to any addresses, - 2 00.

CLUB-RATES FOR 1879. S copies lyear to any post-office addresses, \$5.00 Ce., Kansas, writes: 5 copies 1 year to any post-office addresses, 8 00 16 copies 1 yr. to any post-office addresses, 12.50 (with extra copy to club-agent.)

25 copies 1 yr. to any post-office addresses, 25.00 (with extra copy to club-agent.) SPECIAL INDUCEMENTS TO CLUB-AGENTS .-

NO 1.

\$2 each, we will send a twenty-dollar, silver pers, and this would open their eyes." hunting-case watch.

one time, for the Kansas FARMER, 1 year, at \$1.50 each, we will send a twenty-dollar silver hunting-case watch.

To any person sending us, at one time, afty subscribers for the Kansas FARMER. for 1 year, at \$130 each, we will send a swenty-dollar, silver hunting-case watch. CONDITIONS AND SUGGESTIONS.

Names may be taken for more than one postoffice in or out of the state.

It is desirable that all names for a club be wishes to secure the premium before he has had time to secure his list, he can do so by sonding the amount of money due for a club he is raising, and adding the names after-

Money can be sent at our risk, by poste office order, express, registered letters, or bank

Premiums are guaranteed to reach agents as they will be sent by mail well packed and registered, to secure their safe delivery.

Sample copies will be furnished free to all

CLUB-RATES GOOD UNTIL FEBRUARY 18T ONLY.

The common-sense business rule which has been in force in the Kansas FARMER office for ten years, has been and is to place no name upon the subscription-book until the money for the paper has been received. One week before the expiration of the subscription, notification is sent the subscribers asking them to renew. If this is not done, the paper is discentinued when the last paper has been sent. This secures to every person just what they pay for, and they are not compelled to take a paper for two or three years they do not want, and the publishers are saved all the loss. trouble and annoyance of unpaid subscriptions. These are general business rules applicable to all our subscribers.

THE NEW YEAR.

The FARMER greets all its readers and pattrons with that cheerful salutation, "A Happy New Year!" The prospect is very encouraging for the year on which we are just entering. Scourged the past year in some parts of our country with almost a pestilence, while all parts suffered unusually from the poisonous missus which filled the air, a sure follower of a wet, mild winter. The present winter is the antipode of its predecessor, and the dry, cold, crisp weather, with the thick covering of snow which wraps mother-earth, are sure promises of an approaching season of vigorous health, while the year bids fair to be as profitable in rich grain crops as its immediate predecessors. The farmers are in the best of spirits with the favorable prospect for next wheat harvest, and the sinking and downward tendency of financial affairs have reached a point where they must stop. The terrible ordeal through which business has been pasting for ten years, has made the heart of anterprise weak and timid, and men with rious flavor imparted to the flesh of fowls means to carry on a large business have been reluctant to take hold. They have been completely cowed by the fires they have passed pigs.

to reach out and start business. We are celling largely to foreign nations, and the resurns will act upon the country like foed upon a convalescent man. The growth and rerival of business promises to be slow, but slew CLUB-RATES FOR DECEMBER AND growths are the strongest and most healthy. Our amazing mushroom growth of speculation has been followed by a terrible prostra-1879. tion. Many are laboring under debts they are manfully striving to carry forward, but to which they will have at length to encoumb. In such cases it were far better to abandon the anequal struggle, give up to creditors and start anew. It is a hard lot to give all of one's carnings to satisfy interest alone, of debt that The Kaness FARMER will enter its 16th was unfortunately risked when every business any means and start anew, if you have to live still greater ruin. A crust eaten in freedom

Let all who can possibly do so, start as free men with the New Year, owing no man, and at its next anniversary the popular greeting of "A Happy New Year" will not sound like a mockery.

HORSE STEALING. A correspondent at Fairmount, Leavenworth

"Bomething must be done to stop horse stealing. Ten horses have been stelen in our township in two years, and nothing heard of them. The cry "Hang them!" will not fill the bill. Suppose the Kaneas FARMER, the Rural World, and the Iowa and Nebraska agricultural papers, would act in concert, and advertise all stolen horses free of charge, and

To any person sending us 15 subscribers, at thereby increase their circulation 75 per cent. one time, for the Kansas FARMER, 1 year, at One out of fifty farmers read agricultural pa-This is rather a unique suggestion in more

than one feature. It would seem that a larger number of horses are stolen than the pub-To any person sending us 25 subscribers, at He have any conception of, if the number stolen from this particular township is any criterion. The plan of tree advertising proposed is very heartily endorsed by the Kansas FARMER, and we think we can promise ready concurrence on the part of the Rural World and other papers included in the proposed plan, provided, an increase of 75 per cent to our subscription lists is guaranteed. On account of the general complaint of scarcity of money and tightness of the times, we would be satisfied with an increase to our subscription lists of even 50 per cent., and we doubt not the other papers in the association could be induced to adopt the same libe eral course, provided a good and sufficient sent at one time, but where a club-agent bond were given that the subscription lists, in consideration of this free advertising, would receive the proposed increase. We might even strain a point and add to the free list stolen cattle and other stock.

The last item contained is our correspond ent's note, is one that challenges serious consideration, and will serve as an answer to many bitter complaints which are constantly coming up from the farm: "One farmer in fity," he says, "reads agricultural papers," and we suspect his estimate is a liberal one. But isn't this a humiliating fast for every farmer who does read and keep himself informed in that department of business which most vitally concerns the agricultural class? who does read an agricultural paper, to advise with his neighbors to subscribe for and

read one regularly. Our correspondent seems to be pursuaded that information of stolen horses would quicken the dormant reading instincts, or "open the eyes" of large numbers, but we fear the case is like those who refused to be convinced by Moses and the prophets, "neither would they believe, though one rose from the dead."

SALT POR STOCK.

Farm stock should have a supply of salt constantly within reach, that they may lick what they want. When kept where they can have ready access to it, they will not eat more than is good for them. A very good plan is to place lumps of rock salt in their troughs or mangers. But a better still is to mix salt with equal quantities of unleached hard wood ashes, and keep a good supply of the mixture in boxes or troughs in the cattle yard or stable where it will be secure from wet, and where stock of all kinds, horses, cattle, sheep and hogs can have tree access to it. Sheep are particularly fond of this mixture. This custom should be observed at all seasons, and the health of the animals will be much benefitted by strict attention to this simple rule.

AMBRICAN BACON IN EUROPE.

American bacon rules several cents below prime Irlsh bacon in the English market, the alleged cause for this difference in price being the lack of knowledge on the part of our meat-curers to suit English tastes. There are other, and in all probability more potent reasons assigned for this difference in price, which is the flavor and consequently the inferior quality of the meat, caused by the practice of feeding hogs with cattle which are fed on whole corn. The flesh of the pigs becomes impregnated with the filth they are compelled constantly to forage among in order to obtain their food. All know the injuwhich scratch their living out of the droppings of cattle, and the effect is similar upon

The Kansas Farmer. Jor and finding new | fields, and the arms of thousands of hoge in the western states, and their native prairie. trade ore beginning, in a timid way, possibly by its increase threatens to totally destroy the hog trade, is attributed, by many careful observers, to the practice of compelling hogs to get their living out of the manure of the cattle. The immediate effect of this beastly system-for it can be termed nothing else than beastly-is not manifest. But after several generations of swine have been reared on this filthy dirt, the plague breaks out as the cholera and other plagues break out among, and devastate the filthy, unwashed tribes of Asia.

Pestilences all spring from dirt, it is found, when traced to their origin. The habit of filthy living may not manifest itself immediately, but has a gradual growth which may require several generations to develop, but the teadly fruit is ripened at last.

The apology for feeding horned cattle with whole corn and following them with hogs as gleaners, is the economy of the system. All that is valuable it such communities might the rivaled as a hedge plant in this the labor and expense of grinding the grain readily be appropried by any community of etry. The rich prairie soil pushes the is saved. The steer assimilates enough from the partially broken grains of corn to supply sufficient amount of flesh and fat to fit him for the shambles, while at the same time he serves the purpose of a soaking and fermenting vat for the whole grains which are to pass to the hoge. But this theory of economy all vanishes before the statistics, which tell us of single counties losing \$5,000 to \$50,000 worth of hoge the present fall by this hog cholers or pestilence, and the statements go still further and charge that all the pork butchered in these infected districts, shows symptoms, more or less, of being affected by the disease. Such meat cannot be fine flavored, and there is reason to doubt its being entirely wholesome as feed, even after salting and smoking.

From present appearances it would seem that the step is not a long one to the total ruin of the hog interest in the west, unless a reform is inaugurated speedily. If the animals (cattle and hoge) are fed separately, and the larger part of the grain ground that is fed. they will not consume any more-possibly not so much-as under the present system. But the labor and expense will be greatly increased, it will be alleged. Doubtless such a reform would be attended with some increase in this direction, but the steady advance of the death-rate will be a greater increase in expense through losses; while the cleanly mode of feeding, with comfortable shelter, would restore the health of the animal, the superior flavor and quality of mest would enhance the value and price. In short, filth and slovenliness are the hand-maids of loss and poverty. They invariably are found standing together at the end of the race; while cleanliness, tidiness and economy conort with health, wealth and abundance.

MANUPACTORIES FOR THE WEST.

We often hear the remark that the west eeds, for the completion of its prosperity, the establishment of manufactories. This is true, but not in the sense generally implied. To get the large quantities of raw material into smaller compass, and thus save the cost of transportation, is the one thing most desirable. But how to obtain that end is not so clear. It requires large amounts of capital to establish manufactories, in the ordinary acceptation of that term, and there are many drawbacks and hindrances to make the carrying into successful operation, manufacturing to any great extent, for some time, in those portions of the United States so far west as Kansas, Nebraska, and neighboring states.

We believe that it is entirely practicable to convert all the raw material produced in the great new west, much of which now goes to waste, into such convenient forms as to make it profitable to transport to the centers of population, and return remunerative prices to the producers. The question is answered in part, and very satisfactorily answered, by the conversion of grain, grass and hay into beef, pork,

The canning processes, which are con stantly developing and increasing in extent in the larger cities, of all kinds of meats, is reducing the cost of transportation a thousand per cent. Any person who is curious to learn to what extent the canning of meats and vegetables has already been carried, has only to step into a first-class grocery store in any of the larger towns in Kansas, or other west ern states, and spend a few minutes in reading the labels on the various cans arranged on the shelves. He will find roast beef, corned oughly discharged the work of his office the number heart, beef a la mode, ox-tail soup, beef tea, tripe, pigs feet, pork and beans baked, and probably as many more preparations, besides canned vegetables and fruits, dried fruits, jellies, fruit butters, etc. The list of such things is well nigh endless. And these articles grow on every farm within an hour's drive of the stores where they are seld. And yet all of these articles are manufactured in cities hundreds of miles away, and sent back in condensed form, to be sold, in great part, to the people who produced the raw material from which they were manufactured.

Three-fourths of this work could be done allowing it to pass out of their hands, if they would only "put their heads together" and make use of the good, healthy brains be-

The terrible mortality which is sweeping off like rank weeds in he swalce and valleys of

In the present number of "Round the Farm" papers published in the FARMER, the unutilized wealth of fruits which are prounutilized wealth of fruits which are produced on the farm and go to waste in a great measure, or could ad should be produced, is briefly pointed out. Millions of dollars worth of the most whole he food goes to waste an nuelly, which less favored portions of the world weald be easily to purchase, if it were put in proper she and condition to be shipped to them. The Oneida Community of her wimilar associations, have solved the produce from by them. While the produce from by them while the produce from by them the produce from by the produce in a produce i all such produce frown by them. While their war upon to privacy and sacred rela-tions of the familiand home is an abominations of the famil and home is an abomina-tion to be cast as unclean lepers, their deerd to stock, especially colts.

combination and sesociation of labor are excellence for the prairies is worthy of careful audy and imitation. All the post hedge, and the Osage orange farmers, while t of independence, under' a utter abandonme profession of aust religious zeal, need never plant their seeds | moral death in the community.

for the achievement of greater profit. They have proved highly successful when properly conducted. But these are but crude and experimental attempts at the gateway of the path that invites the agricultural case to go forward to the achievement of weath, independence, social chopment and influence, of which the majority of them have never dreamed: A new Canaan is before them. Let them enter in as the Israelites of old possesses the land, and enter its fruits as the research of a possesses the land, and enter its fruits as the research of a possesses the land, and enter its fruits as the research of a possesses the land, and enter its fruits as the research of a possesses the land, and enter its fruits as the research of the possesses the land, and enter its fruits as the research of the possesses the land, and enter its fruits as the research of the possesses the land and enter its fruits as the research of the possesses the land and enter its fruits as the research of the possesses the land and enter its fruits as the research of the possesses the land and enter its fruits as the research of the possesses the land and enter its fruits as the research of the loss is replaced, the defect can be plants will rob and starve out the possesses the land of the spot to concern more have died, but a short to be for the loss is replaced, the defect can be plants will rob and starve out to your neighbor and permanently retain the plants are provided in the plants are the land, and enjoy its fruits as the never have heretofore.

THE PARMER AND AMERICAN BUNG

We offer to send the KANSAS FARER and also the AMERICAN YOUNG FOLKS or one year, postpaid, to one address or different addresses for \$2 00.

GRANGE

From all quarters the notes granges are most cheerful and enco ging The order seems moving forward withit jar or friction and in conscious strength in the farmers and preparing the brighter and nobler future than the have ever dreamed of. Erelong, the sign the skies are, that they will dictate the pay of the government, state and national, is spirit of wisdom, justice) and charity, o memorable words of the great Lincols malice to none and charity to all."

At the recent annual meeting of Grange of Michigan, the Master, J. J. man, in his address, said:

"There seems to be a general wak up among the subordinate granges, and am confident that much good is being acco ed. During the winter and spring mess I spent a large portion of my time amounts aubordinate granges, and was everywheret with the most encouraging pacepects. ne granges were making their meetings so esting with singing, music, essays and dis-sion that members could not afford toay away from them. Some provided for a one of lectures during the winter, with goodof lectures during the winter, with good suits. I need make ne apology for reteig to the state agricultural college. Whalr tends to promote the welfare of farmers capt tends to promote the welfare of farmers capt many captures are wildelight to linger on. A be without interest to the grange. Wee thankful for the farmers' institute whiche college has inaugurated and carried one past three winters, for they have served show the citizens of the state that the w of the professors, their investigations and tures have been in the direct line of agric ture. We are infermed that the reports of taining the papers and discussions of the stitute are widely read by farmers, and number printed is inadequate to the dem tor them. Intelligent farmers who have en pains to become acquainted with the stitution generally admit its usefulness.

FOR CHIEF CLERK.

Wirt Walton is candidate for re-election on e threshold pen they come home at the position of Chief Clerk of the Kanenig. When one a home is regarded as House or Representatives. No young man only place to es drink, and sleep in, the Kansas who has been honored with a responsor is begun hat ends in gambling sible place, has more completely and the hours and decadation. Young people ture is an important one, and the members, re-electing Mr. Walton, will have an intell gent and vigorous officer who will always as less profitae places. Therefore let found at his post ready for duty.

HEDGES ON PRAIRIE FARMS.

The question of fence material is one on't repress the buoyant spirits of your leading importance in all prairie countribildren; half a hour of merriment round and as distance from wooded sections increase lamp and slight of home, blots out the subject increases in interest. In timb woods, very little thought is given to the sund they cat take with them into the ting the rails and getting them into fences and gen by the producers of the raw material, without Nevertheless those rail fences, cost more, it i estimated, than all other buildings on the farm. These homely enclosures, as they zigzag miles and miles through the country, or queathed them by their Saxon ancestors, and stretch over hill and valley, held upright by thus provide plenty of wholesome and profita. rude posts at the end of every pannel, are the able employment at home for those bright most unsightly objects that offend the eye on eyed and restless brained boys and girls, in the farm, while the labor expended in buildplace of virtually driving them out from ing and keeping them in repair, draws home and fireside to follow the life of adven- heavily from the time which should be emturers in distant cities, where vice flourishes ployed in cultivating crops and performing

the ispensable farm labor. Custom has this description of fence in the old mb States, and notwithstanding they ave in yearly more expensive, as the reases in quantity and faile in qual-

with inverse it does not take property ap-panewith nothing visible of it but de-taed octs, straggling over the treeless

r slavish principles and pre radly, and if proper attention is paid tee youg hedge, and no breaks allowed to ft, the sage orange hedge can be made to the flate to every species of stock. Even d make fenced out tof one's premises. Hever thing depends on starting the Co-operative elses and butter factories. Hever thing depends on starting the and co-operative ares, are successful ventures the program. If a plant is missing restore in this undeveloped field of combined labor thought the immediately or the chain will for the achievement of greater profit. They show a weak place. If the plants are

> must be laid or bent to an angle of about r than this will share retill tighter (r) and secured in the position. The izala t from this horizonal position, will sen d straight branches rom every bud, that form cross section whose strength and like structure will love an effectual barto man and beast. A carefully cultivated trained hedge of the kind can be made an tual barrier to proling dogs, as well as tring tramps, and darm entirely surroundby such, with the atrance to it through tarm buildings or irds, may be made the secure for stock The sheep are safe n dogs, the orchars and truck patches in depredators, and wen the horse thief is

bed out. requires several pars of close attention neareful training terow a perfect hedge, but will be worth mih more than the cost wh obtained. A we trimmed symetrical hee surrounding a rm, adds to the propa era beauty and vals that ne other im-

side fences may buade of boards or wire anshould be movest. One-third the quuntitof meveable fencevill answer all the dee mis of a farm for side enclosure and answ them better the fixed fences. Any hee is a great praction from cold sweepinginds in wintennd presents an equally fordable barrier gainst summer storms. inve insectiverou birds to nest and breed abo the farm wire all through the summehey make warm the insect enemies of therops.

FUNT HOME.

In't be afraidf a little fun at home, godpeople. Dot shut up your houses leshe sun shoul fade your carpets, and youhearts lest a ugh should shake down son of the must cobwebs there. If you wanto ruin yourons, let them think that We see by the press of the state, that hall irth and soci enjoyment must be left

> thy do not fit it at their own hearths, it will beought in other and perhome ever dightful with all those little ts that parent so perfectly understand. remembrane of many a care and an-

SHED TUNIPS .- Peel and slice some ps, leavenem to soak in cold water, and ste them in some white stock or lted war until quite tender, drain ass thenthrough a fine sieve; then pper all salt, a good sized piece of and a mall quantity of cream or mel sale (just sufficient to make the of theight consistency) stir all to-over the fire until hot and serve.

VENTILATION OF SLEEPING ROOMS The London Lancet says: If a man were to deliberately shut himself for six or eight hours daily in a stuffy room, with closed doors or windows (the doors net being opened to change the air during the period of incarceration), and were then to complain of headache and debility, he would be justly told that his own want of intelligent foresight was the cause of his suffering. Nevertheless this is what the great mass of people do every night of their lives, with no thought of their imprudence. There are few bedrooms in which it is perfectly safe to pass the night without something more than ordinary precautions to secure an inflow of fresh air. Every sleeping apartment should, of course, have a fireplace with an open chimney, and in cold weather it is well if the grate contains drug or drunken stuff called medicine, that a small fire, at least enough to create an upcast current and carry off the vitiated air of the room. In all such cases, however, when a fire is used it is necessary to see that the air drawn into the room comes from the outside of the house. By an easy mistake it is possible to place the occupant of a bedroom with a fire, in a closed house, in a direct current of foul air drawn from all parts of the establishment. Summer and winter, with or without the use of fires, it is well to have a free egress for pure air. This should be the ventilators first concern. Foul air will find an exit if pure air is admitted in sufficient quantity, but it is not certain pure air will be drawn in if the im-

pure is drawn away. So far as sleeping

pure. Little is likely to be gained by letting

in a fog or even a town mist.

A Favorite Cough Remedy.—For Colds, Sore Throat, Asthma, Catarrh, and other diseases of the bronchial tubes, no more useful article can be found than the well-known Brocks Bron-chial Troches. 25c. a box.

Chew Jackson's BEST Sweet Navy Tobacco

### THE SIXTH' AVENUE HOTEL.

Mr. Ashbaugh desires us to inform the people of Topeka that he will open up the Sixth' Avenue Hotel for business the 6th of January. This place was formerly known as the Ash-baugh House This House has been re-paint-ed, papered and furnished from bettom to top. Mr. Ashbaugh invites all to come at the First, Second and Third Hour. Come and

see how you like things. This is one of the best Houses in Kansas. When you come to the Capital don't fail to put up at the Sixth'

A SUCCESSFUL PAPER.—The Youth's Companion of Boston is one of the most enterpris-ing sheets in the country. It has twice the circulation of any similar publication, and unquestionably deserves its success.

Honesty is the best policy in medicine as well as in other things. AYER'S SARSAPA-RELLA is a genuine preparation of that un-equalled spring medicine and blood purifier, decidedly superior to the poor imitations heretofore in the market. Trial proves it.

Dr. Jacques' German Worm Cakes stand unrivaled as a worm medicine. Give them a trial. Sold by all druggists.

Peevish children have worms. Dr. Jaque's German Worm Cakes will destroy the worms and make the children happy.

For every ache, pain and bruise on man or beast. Uncle Sam's Nerve and Bone Limiment is the balm. Sold by all Druggists.

Why be distressed with headsche, low spirits and nervousness, when Eliert's Daylight Liver pills are sold by all Druggists.

Mother, when your dear baby suffers in teething, use Dr. Winchell's Teething Syrup. it regulates the bowels, soothes the pain and brings natural sleep. Sold by Druggists at

95 cents a bottle.

### MONEY! MONEY!!

If you wish to borrow money upon Rea Estate, and get your money without sending paper East, and at reasonable rates, go to the Kansas Loan and Trust Co. Topeka

For information concerning the treatment of chronic diseases with Electricity, send for ampliet on Electric treatment, which will tree, on application to the McIntosh c Belt and Battery Co., 192 & 194 Jack-

For Coughs, Colds, Bronchitie and Consumption, use Marsh's Golden Bulsam, the great throat and lung medicine. There is nothing equal to it. Try a sample bottleprice 10 cents. Two doses will benefit. A large bottle will do wonders. Regular sizes, 50 cents and \$1. For sale by Swift & Holliday, Topeka, Kausas, and druggists every-

Uncle Sam's Harsess Oil put on to your harness, will make the leather look new, and keep it soft and pliable. Give it a trial.

No Remedy to the World over came into such universal use, or has so fully won the confi-dence of mankind, as Ayer's Cherry Pectoral, for the cure of Coughs, Colds and Consump-

#### HOW TO UET BICK.

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

Which is auswered in three words-Take Hop Bitters! See other column.

drug or drunken stuff called medicine, that no one knows what it is made of, who ean easily be cured and saved by Hop Bitters, made of Hops, Buchu, Mandrake, Dandelion, &c., which is so pure, simple and harmless that the most frail woman, weakest invalid er smallest shild can trust in them. Will you be saved by them? See other column.

When horses and cattle are spiritless, scraggy and feeble, they need treatment with Uncle Sam's Condition Powder. It purifies the blood, improves the appetite, cures Colds and Distempers, Invigorates the System and will keep the animal in a Healthy, Handsome condition. Sold by all Druggists.

8 and 9
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.

rooms are concerned it is wise to let in air from without. The aim must be to accomplish the object without causing a great fall of temperature or a draught. The windows may be drawn down an inch or two at the top with advantage, and a fold of muslin will form a "ventilator" to take off the fallow of the fall of muslin will form a "ventilator" to take off the feeling of draught. This with an open fireplace, will generally suffice and produce no unpleasant consequences, even when the weather is cold. It is, however, essential that the air outside should be sold by all Druggists.

in a fog or even a town mist.

INDIAN PUBDING.—This is an old-fashioned recipe:—One quart of milk, one small cup of Indian meal stirred in while the milk is hot; let it cool and add one egg; molasses to sweeten; butter half the size of an egg, cinnamon and salt to yeur taste; bake three-quarters of an hour.

A Favorite Cough Bemedy.—For Colds, Sore Throat, Asthma, Catarrh, and other diseases of the standard of the pants on. friends tell me it looks like a coffee-sack on a bean-pole, and when I put the pants on—well, description fails. My object in writing is to accertain whether you have not, in competion with your medicine business, an establishment where your patrons, similarly situated, could exchange these useless garments for others that would fit. I think you ought to have something of the kind, as it would be an inducement for many to use the Anti-Fat, who now object to using it in consequence of the loss they would sustain in throwing aside valuable garments. Just turn the matter over in your mind. A "Clothing Exchange" is what you want in connection with your Anti-Fat business. with your Anti-Fat business.
Yours truly, GEORGE BOYD.
Prattville, Ala, July 19th, 1878.

### Markets.

(December 30, 1878.) Now York Money Market.

GOLD-Quiet at par.

LOANS—Borrowing rates, 1@2 per cent., and 1-64 per cent., per diem.
GOVERNMENTS—Generally steady.
RAILROAD BONDS—Firm.
STORS—The St.ck Market to-day was strong, and an advance was established ranging from 1/2 per cent, shortly after 2 o'clock p. m there was a reaction of from 1/2 per cent, but the decline was recovered, and the closing quotations were the highest of the day. The principal activity was in Granger shares. Lake Shore and Western Union.

Kansas City Live-Stock Market.

The Price Current reports: The Price Current reports:

CATTLE—Receipts, 158; shipments, 151; slow; native shippers, \$434; native stuctiers and feeders, \$240 83 it; wintered and corn-fed Texas steers, \$2 1540 2 40; native cows, \$1 800 3 9 5 HOGS—Receipts, 1,206; shipments, 371; nnchanged; fair to choice heavy packing, \$2 15692 30; light shipping, \$1 75892 10.

SHEEP—Non-on sale.

Kansas City Produce Market-

The Price Current reports: The Price Current reports:

WHEAT—Receipts, 2,400 bushels; shipments, 800; firmer; No. 2, 81½c; No. 3, 80c; No. 4, 74c.

CORN—R ceipts, 10 800 bushels; shipments, none;
No. 2, 21½c, r-j.-cred, 21c.

HYE—Firm; No. 2, 33c; r-jected, 30½c.

HAY—Steady; 1869 35.

F\_UUR\_Unchang d

PROVISIONS—Fair demand; salt bacon sides, \$4 75
65 00; sngar cured hams, \$7 25@7 50; dry salt sides, \$3 25@3 75.

LAHD—In tierces, \$6 00.

New York Produce Market.

New York Produce Market.

FLOUR—Dull and heavy; runordne, western state, 33 35 51; common to good \$3 5024; good to choice, 44 6564 50; white wheat extra, 84 56 55 25; St. Louis, 38 505 75

WHE 1T—Quiet; No. 3 sprinz, 59690c; ungraded red, \$1 0361 08; No. 3, do., \$1 0361 08; No. 2, do., \$1 09%61 09%; No. 1 do., \$1 10; angraded amber, \$1 0361 19%; ungraded white, \$1 0561 09%; No. 2, do. \$1 08%61 07.

RYE—1 un; weelern, 56658c.

BARLEY—Steady,
CORV—Quiet as d unchanged; ungraded, 45647c; No. 3, 44%c; No. 2 47%c; cound y llow, 64c.
OATS—Quiet; m xed western, 29%630%c; white western, 3%c.
COFFEE—Firm.
RUGAR—Quiet and unchanged.
RUGE—Steady
MOLASSES—Quiet and unchanged,
EGGS—Firm; western, 71%428c.

MOLASES—Quiet and unchanged.
EGGS—Firm; western, TX/x128c.
FORR—Quiet; mess, 27 1047 30.
BEEF—Dull and unchanged.
CUT MEATS—Quiet; long clear middles \$4, short lear, \$4 18%.
LARD—Higher; prime steam, \$5 75.25 83.
B. TTER—Firm; western, 62 20c.
CHEESE—Quiet; western, 3258/c.
WHISEY—\$1 13 bid; 1 13% asked.

St. Louis Produce Market.

FLOUR-Unchanged.
WHEAT-Opened slow and lower, and closed firm and higher; No. 2 red. winter. 91%c cash; 91%c December settlement; 90% 91% uJanuary; 91% 291%c February; 92%c March; No. 3 do., 86% 986%c.

OORN—Easier: 29%c cash; 29%c January; 29%c 30%c February; 31%c Marc h. OATS—Dull; 21%c31%c cash; 20%c becember and

RYB Quiet; 49%@42%c. PARLEY—Nominal.

64. Leuis Live-Seek Markes.

CATTLE-G od demand for heavy fat steers, \$4 50 5; medium grades slow and w-ak; rative batches's steer duil, \$2 75@3.50; cows and heijers, \$2 50; corn-fed Texans, \$2 7.7% 3 50; feeding rivers, \$3 25% 3 50: Colorados, \$3 25% 64 15; stockars, \$3 35% 3; rec-jpts, 1,300; shipments, hone.

HOG9-Active; light shipping, \$3 55% 4; packing, \$3 45% 3 60; butchers and extra heavy, \$3 50% 3 70; rec-jpts, \$50; shipments, \$50

BHERP—Strong, on light receipts; fair to good, \$2.8% 35; choice to fancy, \$3 50% 45; receipts, 400; shipments, none.

Chicago Live'Stock Market.

The Drovers' Journal this afternoon reports as fel-Lows:
HUGS—Reccipts, 27,000; shipments, 1,700: market 58219 c better all arounds choice heavy. \$2 1063-500; itgat, 62 500, 32 60; nair d, \$3 5063 55.
UA TILE—Reccipts, 3,400; shipments, 5,006, market dull and slow: shipping, \$3 5064 65; feeders and atockers, \$2 4063 30; butthers' cows, \$3,23 56;
Texans, 51 5062 30.
SHEEP—Reccipts, 1,500; shipments, none; market steady; \$2 4066 50.

Chicago Produce Market. Chleago Fredrice Market.

FLOUR Steady and uncharged.

WHEAT Onlet and frm, No. red winter, 90c; Ne.

3 spring, 53% 683% cash; 52% c January; 53% c Feb
ruary; No. 3 spring, 70c; rejected, 51% c
CORN—Dull and a shade lower; 30% c cash; 30% c
January; 50% of February.

O ATR—Dull, and unchanged; 19% c cash; 30c February; rejected, 17c.

KY S—Steady and unchanged.

BA HLEY—Fairly active and a shade higher; 95% c
for extra; No. 3, 50651c.

PORK—Active, firm and eigher; \$7.40 cash; \$7.40

857.43% January; \$7.5067.52% February; \$7.53%

March.

657 43% January; 67 5067 53% February; 87 63% March.

LaRD—Active firm and higher; 85 40 cesh 65 37% ch 40 January; 95 3065 50 February; 85 50 55 57% March.

BULK MEATS—Good demand and a chade higher; shoulders, \$2 5'; short ribe; \$5 50; short clear, \$3 65.

WHISKY—Steady and unchanged; 81 06.

St Leuis Weel Market.

WOOL—Quetand unchanged; We quote; Tubwashed—choice, 31c; racdiu n, 30c; dingy and low 25 657c Unwashed—mixed combing 23c; medium, 31 23% c; coarse 16 318; right him: 18692; heavy do 16 6017c; Burry, black and cotted 3 to 10c \$1 \$1 lose, Markets, dall and weak.

Three troot man	
New fleeco-washed. Tub-washed, common to shoice. Fino nuwashed Fine heavy nuwashed. Colorado medium and flue. Colorado coarce.	28631 30637 19623 15618 23625 15616
manaka Danad Charles Manka	

Wholesale cash prices by dealers, corrected weekly

by W. Edson.

WHEAT—Per bu. spring.

Fall No. 2.

No. 3.

No. 4.

CORN—Per bu.

White Old.

Vellow

OATS—Per bu old

New

RYB—Per bu.

BARLEY—Per bu.

No. 2.

No. 2.

No. 3.

Rye

CORN MKAL—

CORN CHOP—

Topsha Batchers Briefl Mor-Sirioin Steak per 15... Roand Roasts "Fore Quarter Dressed, per 1b... Hind PORE Sausage

APPLES—Fer boshel
BEANS—Per bu—White Navy
Medium
Oonmon
Castor
BUTTER—Fer lb—Choloe... BUTTER-Per lb—Choice...
Medium
CHERSE-Per lb.
E9GS-Per dos—Freeh
LOMINY-Per bbl...
VINEGAR-Per gal
E R POTATOES-Per bu.
P B POTATOES
SWERT 'POTATOES
POULTRY-Chickens, Live, per dos...
Chickens, Dressed, per 'b...

.04 .04 .05 .08 .10

Topeka Leather Market.
Corrected weekly by H. D. Clark, Dealer Furs, Tallow and Leather.
HIDES—Green, Green, damaged.
Green, frozen.
Green, kty and calf.
Bull and stag.
Dry fint, prime.
Dry salted, prime.
Dry Damaged.

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In answering an Advertisement found in the columns, you will confer a favor by so you saw it in the KANSAS PARMER.

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taste, desire and habit of using any of them, resdering the taste or desire for any of them perfect
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College. Washburn



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to action; and they unpart health and tone to the whole being. They cure not only the every day complaints of overy body, but formidable and daugerous diseases. Most exiliful physicians, most eminent clergymen, and our best cirisens, eand certificates of cures performed, and of great benefits derived from these Pills. They are the exists and best physic for children, because mild as well as effectual. Being sugar coated, they are easy to take; and being purely vegetable, the are entirely harmless.

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#### THE NEW YORK SUN POR 1879.

This respect there will be no change in its programme for 1879.

The - UN has fairly earned the hearty hatred of rescale, fraude, and humburs of all sorts and sizes. It hopes to deser e that hatred not less in 1879, than in 1878, 1877, or any year gone by. The Sun is printed for the unen and women of to-day, whose concern is chiefly with the affairs of to-day. It has both the disposition and the shilty to affard its readers the promptest, failest, and most accurate intelligence of whatever in the wide world is worth attention. Testis end the resources belonging to well-established prosperity will be liberally employed.

The present disjointed condition of parties in this country, and the uncertainty of the future, lend an extraordinary significance to the events of the coming year. To present with accuracy and clearness the exact situation in each of its varying phases, and to expound, according to its well-known methods, the principles that should suide us through the labyrinth, will be an important part of The Bux's work for 1879.

We have the means of making The Sux as a po-

to expound, according to its well-known methods, the principles that should guide us through the labyrinth, will be an important part of The Burs's work for 1879

We have the means of making The Bur, as a political, a literary, and a general newspaper, more entertaining and more useful than ever before; and we mean to apply them freely.

Our rates of subscription remainfunchanged. For the Dally Bur, a four-page sheet of twenty-eight columns, the price by mail, postpaid, is 55 cents a month, or \$6.50 a year; or. including the Sunday paper, an eight-page sheet of fitz-six columns, the price is 55 cents a month, or \$7.70 a year, postage paid.

The Sunday edition of The Sun is also furnished separately at \$1.20 a y a, postage paid. The Sunday shall be a most entertaining and instructive body of literary yind miscellareous matter, in built twice as great and in value not inferior to that of the b at monthly magnatines of he day at one-truth their cost.

The Wirking Sun is especially adapted for those who do not take a New York dilly paper. The news of the week is fully presented, its market reports are furnished to the latest moment, and its agricultural department, edited with great care and ability is uncurpassed. The Wirking Sun of the week is fully presented, its market reports are furnished to the latest moment, and its agricultural department, edited with great care and ability is uncurpassed. The Wirking to a sun yother paper published. A chrice story, with other carefully prepared miscellany, appears in seak issue. The Weekly protects its readers by barring its advertising columns against trands and humbage and furnishes more wood matter for less money than can be obtained from any other source.

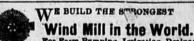
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Jan 18,449

EDITED BY MRS. M. W. HUDSON.

PARSON WILLIAMS' 8-88-TH BRHAKING.

On the grave of Parson Williams
The grass is brown and bleached,
It is more than fifty winters
Since he lived and laughed and preached

But this memory in New England No winter moss can bill; Of his goodness and his droliness, Countless iegonds linger still.

And among those treasured legends I hold this one a buon. How he got in Beacon Croeby's bay On a Sunday afternoon.

He was midway in a sermon. Most orthodox on grace.
When a sound of dis ant thunder
Broke the quiet of the place.

Now the meadows of the Crosbys Lay inli within his sight, As he gianced from out he window Which stood open on his right, And the green frag ant baycocks
By acres they did stand;
Not a mesdow like the Descon's
Far or near in all it e sand

Quick and loud two claps of tounder Went robling through the skies, And the Parson saw his Descon Looking out with at X1008 eyes.

"Now, my brethren," called the Parson,
And called with might and main
"We must get in Brother Crosby's hay,
"Tis our duty now most plain!"

Ard he shut the great red Bible, And tossed his sermon down, Not a man could run more swiftly, Than the Parson in that town.

And he ran now to the meadow
With all his strength and speed:

Hai not often on a Sunday
Such eights as this, I ween,
Of a parson and his people,
A New England town had seen.

With a will they worked and shouted, And cleared the fields space; And the Parson led the singing. While the sweat rolled down his face.

And it thundered, fl rcer, leuder; And dark grew east ann west; But the hay was under cov \( \tau\_1 \) And the Parson had worked best

Not a moment had been wasted; The rain was failing fast, As the Parso: and his people Through the village breathless passed.

And again in pew and pulpit
Their places took composed,
And the Parson preached his serme
To "fitteenthly," where it closed. When the se vices were ended

And the good old Deacon Crosby, A meek and godly man, Hardly date rejoice his haycocas Hau been saved on such a plan.

But the Parson came down striding
In haste the narrow aisle,
And the Deacon's bent old shoulders
He patted, with a smile.

And he said; "No fear, my brother, Lest God think it is a sin; For he sent the snu to make your bent the sun to make your hay, or he sent the sun to get it in "
All your friends to get it in "
—H. H in Independent

### A HAPPY NEW YEAR

Once a year we are all young. With the New Year we begin again. New hopes dawn renewed efforts bring new inspirations and whateverlof work we have in hand grows easier whatever of pleasure we hold in anticipation becomes dearer, duty is plainer, love stronger. life better worth the living. Twelve months of effort well plauned at the beginning of the year, will help any one vastly on whatever road he chooses to travel; the prosperous farmer plats his ground, the frugal matron turns over in her mind the furnishing and across the window or around the pictures. adorning of her home, the loving mother lays Grown from both seeds and bulbs. Pot the up in her heart another ambition for her the bulbs as soon as received, watering but child and a new vista of the world opens to him.

When we wish our friends a happy New Year we should pray that they may have strength to work out their New Year's plans, to adhere to their new year resolves, and light to see clearly the path of virtue on which we all joyfully set out on New Year's day; for there are few wicked thoughts born then, many things have conspired to educate us into the custom of making that a day of noble aspirations and good beginnings. The heat and toil of midsummer sometimes overcome our better natures and quell the spirit of hope, but with the New Year good-will towards all mankind, and determination in good purposes, ascert themselves and we begin

May few stumble or fall back, may none grow blindto the light that shines for them, may none become deaf to the unerring voice that whispers of the better way and may none fail to extend good cheer to the faltering ; many a one might reach his goal and lead an honest, useful life if some kind hand would but beckon him over the stony places. R-member them then, we pray, all ye who ride a fortune's wings and dwell in pleasant places. Love's subtle and yet sustaining breath does not buoy up the soul of every one, and without it life is a task that few have the courage to perform manfully ; remember them and give of the abundance bestowed upon you, a gentle word and a brotherly clasp of

the hand. Good thoughts, like good deeds, increase by dividing them with others, and moral, like Press. physical strengths, grows with exercise, the more we help to lift up the fallen and benighted fellow traveler, the more able we will be to pursue the angel of truth ourselves and in this way we can hold fast to our New Year's vows and start from the next one better and stronger.

OUR ART-CORNER.

and me. The design was mine, -most em- period" of "hanging their hats on the floor," edged lovers.

family-taking to art, as to the manner born. and whenever anything is left out of place Still, to give Isaac his dues, I must say that whoever sees it can put it in the box or bag. after my designs were laid before him he The owner, when he wants it, must pay a forshowed himself very appreciative and good at a suggestion; consequently, I always use just what the forfeit is for each one-writthe plural in speaking possessively of that ing a sentence on a slate, or learning or recorner. In fact, Isaac did most of the work citing a verse of poetry, or passage of Scripwhile I superintended and added the finishing touches.

The beginning of it in tangible form was two boards for uprights about forty inches in length by eight and a half in width; three shelves thirty-six inches long by eight wide, another board the same size as the shelves. The latter is nailed across from one upright to the other, back of the highest shelf, the two china plates of my own decoration resting against it, while there is the delightful prospect of an additional plate, aged one hundred and fifty, to add its antique beauty to the rest. On the same shelf is a ginger. jar, not loaded with all imaginable devices so closely crowded that one scarcely knows where a Chinese woman ends and a voracious-looking serpent begins, but decorated with a few well selected pictures on a pale cream-colored ground. This color was laid on in oil paint, and between the pictures, partially filling up the vacant spaces, are gilt scrolls, very easily made with a sable brush dipped into printers' gilt after the gilt is mixed with a little mucilage. An oldtashioned brass candlestick, containing a wax candle ornamented with a little decalcomanie work completes the furniture of the top shelf.

The second shelf contains a little Japanese cabinet and tea-pot, an empty salt jar nearly covered with roses and butterflies, and a large beautifully variegated, nautilusshell. On the lower shelf is a number of shells of various kinds and sizes, and two or three articles from India. But it is not so much the furniture of the shelves as the shelves themselves I want to speak about. The plain boards, brought by Isaac from a planing mill at a trifling cost, are transformed into an article that every one not in the secret supposes to have come from Japan. They are painted black, thoroughly dried, then varnished, and while the varnish is wet the printers' gilt is rubbed on in spots with a pad of wadding. Then, when thoroughly dry again, the shelves receive a final coat of varnish,-carriage varnish is the best. The edges of the shelves are trimmed with scolloped points of crimson enameled cloth, nailed on with silver or brass headed nails. Above this "high art" establishment is a standing row of Japanese fans, which give the finishing touches to our corner .-Cor. Christian Union.

### PLORICULTURE IN THE HOUSE,

SMILAX.

Smilax is an exceedingly graceful vine with glossy, green ribbed leaves, and is now more extensively used than any other for trimming dresses. With a little care it can be grown successfully as a house plant. The vine does not require the full sun, but will grow well in a partially shaded situa tion. It can be trained on a small thread little until you see signs of growth. They grow very rapidly and should always have strings to twine on. Give plenty of fresh air, but be careful and not let a direct draft of cold air blow upon the vines, as they are very tender when young. Give them a warm place and they will amply repay all care. When growth is complete the foliage will turn yellow. Then gradually withhold water and allow the bulbs to dry. They then can be put in some cool, dry place. After they have been in this dormant state six or eight weeks they will begin to show signs of life, and then are ready for another season's growth .- Vick s Magazine.

### HOME ECONOMY.

Old boot tops cut into pieces the right size and lined, make excellent iron holders. The leather keeps all heat away from the hand.

Do not have flannel or woolen dish cloths, as they retain the grease, and so keep putting it on instead of taking it off. Old towels are the best for this purpose, and they should be washed and boiled as regularly as the napkins and towels themselves.

To CLEAN CARPETS .- Take one pint of hot water; add one tablespoonful ammonia; stir well together; with this solution use a little toilet soap and it will remove all stains or grease spots from the finest of carpets without changing the color,-Detroit Free

A CHEAP PORK BARREL .- The Inter-Ocean says: "Buy a coal oil barrel; knock one head in take a bunch of old hay, set fire to it and throw it in the barrel; let it burn until the staves commence to burn; put it out by turning the barrel upside down scrape the coals off and you have a good, sweet Barrel."

Our art-corner was conjured up by Isaac To cure the boys who are in "the colt

phatically mine,-for I am the ariist of the place a box or bag in a convenient place, feit by doing something, having it understood ture-anything that will take a little time when the boys are in a hurry for hat or books or whatever the article may be.

#### FOR THE PARMERS.

A GEM. "I will give you rain in due season, and the land shall yield her increase, and the trees of the field shall yield their fruit, and sore. your threshing shall reach unto the vintage, and the vintage shall reach unto the sowing time, and ye shall eat your bread to the full; and dwell in your land safely. And I will give peace in the land, and ye shall lie down and none shall make you afraid; and I will rid evil beasts out of the land, neither shall the sword go through the land. And we shall chase your enemies, and they shall fall before you by the sword And five of

To ROAST A TURKEY .- After thoroughly cleaning, and singing with a lighted newspaper, prepare a stuffing of pounded off my grandsire's broad-brim with his crackers, salt, pepper, butter, white of eggs, sword!" crackers, salt, pepper, butter, white of eggs, sage and sweet margarine; fill the turkey and sew it up tightly; rub it with salt and Prescott was taken across the bay to the flour; pour half a pint of water into the Narragansett country. His captors stopped pan; put in the turkey, and let it roast grad- at grandfather Chase's, for a dinner. ually at first. The wings and legs should be tied down tightly to the body. A large turkey, of twelve or fourteen pounds, will her frightfully, and wanted to know if she require four hours gentle roasting and con was going to make him dine on swines stant basting with flour and water. Boil the food. Oh, if these world's people could heart, liver and gizzard in a little water until tender; mash the liver and slice thin the hear swearing!" heart and gizzard; add all these to the gravy in the saucepan; thicken a little with flour and season with salt and pepper. Serve with cranberry jelly and oyster sauce

#### PENINNAH.

BY HARRIET WARE STILLMAN.

"Yonder is the place where they captur ed Prescott, that two-story farm house on the east side of the road with a pond and some willows in the front yard.

Obadiah Wilbur stopped his swift horse with a single magic touch of the reins. "This glimpse between the trees is a very

fine view of the locality," he added.
"What an interesting spot!" exclaimed Peninnah. "Will you wait here while I sketch it? Mother would be so pleased with a drawing of the very house where Prescott was taken."

"I will do waatever you may command." She took from her pocket a lead pencil and a bit of paper.

"Have you only that scrap?" asked Obadiah. "Perhaps this will serve you better." The young man took out his diary, opened to a blank page and handed it to plant for decorating parlors, the hair, and his companion. It was not a gilt edged bijou, resplendent with "modern improvements," but a plain leather-covered pamph let of a style popular at the time this con versation took place, some fifty years ago
"But I shall not want to tear out the leaf," said -he.

"The diary, like its owner, is yours. Pen-

ate surroundings rapidly grew under her the world than these same Quakers; and to hand. Obadiah watched her in a dreamy that people I shall ever belong, unless they "Did you study drawing at the Quaker

school in Providence?" he presently inquir-

"Then how did you learn?" ',I have not learned. I do not know how Sie emphasized these words by sketching in the front yard a quadruped not exactly corresponding in contour with

y described in zoology.
'There, I have done!" she closed the book, and slipped it slyly into her pocket. "I accept the implied answer to my implied question," said Obadiah, stealing his arm around the maiden's waist and drawing her nearer to him. Agag, the horse, pricked up his ears, turned his head on one side, and winked at his master behind his blinders, as if he said, "Ah, ha, my lad, I have discovered your secret! But I am a generous soul. I'll never tell.—Beg pardon. -I believe you do not study Latin at the Quaker school; we do at Brown. In plumbo means, in lead or with lead. Now I will draw a picture of a house for you in voce, atque verbis; a voice picture, a picture in the medium of words. Have you patience

to listen? Patience! Had Eve patience to listen to Adam when they were about to build a bow

er in Eden? The word picture must have been vivid, for it brought a vivid color to Peninnah's It must also have been elaborate cheeks. in detail, for it was so long in being painted, that Agag had time to walk slowly two miles further up the road, and back before Obadiah gave the finishing touch to his pic ture. "That land is father's. He has promised it to me whenever I shall want a home of my own sons." But there was never any illusion of love between him and Penhame of my own sons. promised it to me whenever I shall want a home of my own, providing that I shall innah; they have been playmates from babyhood until we left the island. graduate first at Brown, which will take two

more years.'

"Happy concidence!"
There was such a satisfied expression upon the beaming countenances of the twain that the very birds as they flew by might have known them to be acknowledged lovers.

"Happy concidence!"
"Can it be?" Rachel was saying to herself as she went back to the house, "Did Jabez ever think of marrying little Feninnah!"

When they again came in sight of the place where Prescott was captured, Obadiah resumed the subject.

"The same paper is still on the walls of Prescott's sleeping room, and one can see the dents made in it by the bayonets of his raptors. There was a negro with the party. Prescott's chamber was fastened on the inside, and this negro butted the door open with his head.

"What a skull he must have had!" ejaculated Peninnah.

"And how thickly it must have been pad-ed with wool!" laughed Obadiah.
"They took Prescott, bootless and in his

undress, down the rocky bed of that rivulet and across those fields yonder, hurrying him along at a double quick over the stones, and through the stubble. The old tyrant for once found out what it is to be foot-

"Why do you call him an old tyrant?" asked Peninnah. "Many of the British officers were generous souled gentlemen, if

they were our enemies"
"True. But Prescott was an overbearing tyrannical aristocrat. You ought to hear the old men of the island talk over the incidents that happened while he was quartered here at Newport. Why, my grandfather was walking in the street, one day when Prescott and his attendants came you shall chase an hundred, and an hun dred of you shall put ten thousand to flight; and your enemies shall fall before you by the sword, if ye walk in my statutes, and keep my commandments and do them.

PILGRIM.

We hereby inform the Public that our Refined Swors consist solker.

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Pilgrim.

Pi Quakers ne ver take off their hats to anybody. Well, Prescott rose in his saddle, and, uttering another horrid oath, knocked

"My grandmother also had a bit of experience with the general," said Peninnah. Grandmother had hot corn and beans just ready to serve up. When she brought a steaming bowl of it to Prescott he swore at know how it shocks a Quaker woman to

"Profanity is not always confined to the world's people, Peninnah; the roundest oaths I ever heard came rolling and roaring out of an orthodox Quaker's throat."

But thee knows it is quite uncommon to

Peninnah's eyes met Obadiah's. Both broke into a merry laugh. "That is the first time you have said 'thee' to me since you came to Nr wport," said Obadiah, 'It was the force of habit. You know

always use the plain language at home. But since I have studied grammer I am continually annoyed by our ungrammatical use of 'thee'; 'thee thinks'; 'thee knews'; 'thee remembers.' Why not say, 'thou knowest'; , thou thinkest'; 'thou rememberest', if we must needs use the solemn style in ordinary conversation?"

"Really, thee is waxing warm, Peninnah; nay, I fear me, rebelious. I have discarded 'thee' since I went to Brown; consequent ly I am deemed a heretic by most of our

"But are you independent enough to brave such an opinion?" "I do not like to hurt the feelings of my

parents. "you are right. We should sacrifice something to avoid wounding those who have done so much for us. And, after all, it is not so very terrible to say, 'How does thee do? Thee is looking remarkably well to-day.' I like the fun sometimes. But I will not conform to a continual use of bad notions. There is more moral, more spiritual, more intellectual slavery in the world than there is of purely physical. And the The outline of the house and its immedible opinion, there are no better people in

> cast me out.' "Has thee come alone? I thought thee

would bring Peninnah with thee.' The speaker was a comely middle-aged Ouaker matron. She had been out among the rose-bushes in her door-yard, watching for Jabez Anthony, who was to return that day from the Friends' Yearly Meeting at Newport bringing with him her only daugh

"Peninnah will come by and by, with younger and a gayer man than myself, even that disdainer of our goodly usages, Oba-diah Wilbur. I wonder, Rachel, that thee and Benjamin will countenance that marriage

"Marriage Jabez! what does thee mean? "I mean exactly what I seem to mean." Jabez An hony, pent upon Rachel Chase a suilen look of indignant dissatisfaction.

Thee is greatly displeased, Jabez; but I do not not understand the reason "Because thee won't!" Jabez turned

away his head with a contemptuous sniff, and chirruped to his horse to start.

"Stop, stop, Jabez! Thee never was ngry with me before. Thee must explain."
"Explain!" There was infinite scorn in Jabez's voice. Richel was really distressed. "Hath Peninnah behaved herself unseemly? Hath she yielded to the temptations of that light and frivolous city? tell me

I adjure thee! She is over her ears in love with that herteical coxcomb, Obadiah Wilbur.

Jabez, thee must be mistaken. We always lived next neighbor to friend Wilbur

"Thee and Benjamin are two blind old water school two years longer" With this emphatic declaration

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# than there is of purely physical. And the rigid requirements of the Friends concerning language and music are to me so many hair, was her only reply.

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#### MANUPACTURING SORGRUM

The cane sorghum should be perfectly ripe for harvest; the ripest will produce best sugar. In the present season the caue which stood the longest made the largest proportion of sugar. If the cane is not ripe before frost, it will pay to cut, but the planter must not expect as good quality of product. Do not, therefore, procure seed of late growing. The Minnesota Early Amber, is, without doubt, the earliest sort known, as well as the richest in saccharine matter. By letting the cane season awhile in the field after cutting and before pressing, a better quality of sugar is obtained. The useless properties seem to dry out, and nothing like as much green, gummy scum rises in boiling, as is the case if the cane is worked immediately after cutting. The leaves must not be stripped off during the curing process, or a loss is occasioned. Two or three weeks is about the time required for curing. If not frozen, the cane will keep for two months. Freezing injures the quality. Allen County—T. S. Stover, Clerk.

sible. If, by splitting a cane, the pith is found to have a greenish appearance, it indicates injury by freezing. The natural color is white. When going to the mill, the seed heads must be cut about one foot from the head and then dried. The cane should be dry when hauled to the mill or sheds. All broken cane will sour and damage the product.—St. Paul Pioneer Press.

WINDOW BOXES.

A lady sends to an exchange the following inexpensive design for window boxes. I notice in the leading magazines, designs for windows. They all incur more or less found to have a greenish appearance, it indicates the product of the Frozen cane should be worked as soon as pos-

expense. I have tried a plan on one of my windows which filled my expectations at little cost. Take a common raisin box, putty the cracks shut, and let dry, paint outside, and it wanted for the room decorate with pictures which can be done with very little trouble; take a small quantity of gum arabic, dissolve in water, brush the picture. I have a small quantity of gum arabic, dissolve in water, brush the picture. I have a small quantity of gum arabic, dissolve in water, brush the picture. I have a small quantity of gum arabic, dissolve in water, brush the picture. I have a small quantity of gum arabic, dissolve in water, brush the picture. I have a small quantity of gum arabic, dissolve in water, brush the picture. I have a small quantity of gum arabic, dissolve in water, brush the picture. I have a small quantity of gum arabic, dissolve in water, brush the picture. the box when dry, varnish over and they will remain on all winter. Put bits of 2-yeld mare mule, dim brand Bor Ron left shoulder, darlay or black, mouse colored mouth. Valued at not pack, for drainage Fill not pack, for drainage. Fill up with good rich earth, with a little sand or woods earth, to keep loose. Plant Kenilworth ivy along the edges to fall over the box. It ivy along the edges to fall over the box. It the box is placed where you do not wish to move it till spring, you can plant a madeira root at one end and some variety of the box is placed where you do not wish to move it till spring, you can plant a madeira root at one end and some variety of the box is placed where you do not wish to move it till spring, you can plant a madeira root at one end and some variety of the box is placed white spotted helfer, branded on left hip soosed to be LD. Valued at \$12. root at one end and some variety of ivy at the other to wind up at the side of the window. Inside, begin to plant those that grow low, so as you draw to the centre place those that grow the tallest. A box filled with bulbs arranged so that the colors harmonize, is a beautiful ornament for a window in winter.

### THE STRAY LIST

### Strays For Week Ending January 1, 1878.

Atchison County-Chas H Krebs, Clerk. COI/T—Taken up by W. L. Challies, Shinnon Tp. (Atch ison P. O.) Nov. 1, 1878, one bey mare coit, white in face, three white feet, lyr old. Valued at \$15.

MARK—Taken up by William Tobin, Kapioma Tp., (Muccot b P. O.) Nov. 11, 1878, one brown mare, both hind legs white shove fellocks, white star on forehead, 2 yrs olit. Valued at \$25. gs white above festocas, white was very definition of the control of the control

as \$10.
TRESELTAKEN up by Maxwell Carles, Grasshopper To Insotan P. O. ) Nov. 10, 1878, one dark red steer, hole in his east of the property of the territory of the territory. Valued at \$10 to 1878, one dark in the property of the propert und at \$15.

COW & CALF—Taken up by P. D. Sutton, Shannon Tp (Atchison P. O.) one red and white cow, branded T en right hip, 3 yrs old. Valued at \$25
Accompanied by calf about 4 months old.
Helf-KR—Taken up by Frank Royington, Grasshopper Tp, (Muscottah P. O.) Nov. 15. 1578, one dark red h Her, some white on forehead and other parts of body, 1 yr old. Valued at \$10
MARE—Taken up by W. R. Lattimore, Rapisma Tp (Muscottah P. O.)Nov. 5, 1878, one bay mare, left hind foot white, 14½ hands high, 2 yrs old. Valued \$25.
STEEK—Taken up by Allen Norris, Grasshopper Tp, (Muscottah P. O.) Nov. 3, 1878, one brindle stear 1 yr old. Valued at \$44.

STEER-Taken up by A. M. Brown, Center Tp, (Farm (Muscotal P. O.) Nov. 3, 1878, one brindle steer lyroid. Valued at \$14.

(OLT-Taken up by A. M. Brown, Center Tp, (Farm ington P. O.) Nov. 1, 1878, one light brown mare colt, pony build, star on forr-head, both hind feet white, heavy mane and tail, 2 years old Valued at \$15.

"TEER-Taken up by Wrills Hotham, Mt Pleasant Tp, (Atchison P. O.) November 3, 1878, one red and white steer, horse shoe brand on right side, circle and herd brand on left side, 3 years old Valued at \$37.

STÆRE-Taken up by Thomas Carpstein, Mt. Pleasant Tp, (Mt. Pleasant P. O.) Nov 25, 1878 one red and white spotted steer, 2 yrs old. Valued at \$12.

Chase County — S. A. Breese, Clerk.

OOW—Taken up by Enoch Harpole, Toledo Tp, Nov. 25, 1878, one white cow about 4 yrs of, hole in right car, underbit in left car, branued P on left hip. V: lund at \$18.

HOKBE-Also, by same, Dec. 9, 1878, one 2-yr-oid house coit, bay, back mane and tall, white hind feet, small star in forrhead, about 14 hands high. Valued at \$20.

HEIF aR—taken up by N. J. Shellenbarger, Toledo Tp, Nov. 27, 1878, one 2yr-oid belier, ned with some white spois. Valued at \$14.

BIKER-Also, one yearling steer, white with red neck, crop off left car. Valued at \$15.

GUW—Taken up by Enoch Harpole, Toledo Tp, Nov. 15, 1878, one white cow shout 4 yrs of, holy in righ ear, anderbit in left car, branued P on left hip. Valued \$79, Nov. 16, 185, one two yearling steer, white with some white spois. Valued at \$14.

SIKER-Taken up by N. J. Shellenbarger, Toledo Tp, Nov. 16, 185, one two yr old helter, red with some white spois. Valued at \$14.

SIKER-Also, one yearling steer, white with red neck, crop off left car. Valued at \$15.

Elk County—Geo. 'I hompson. Clerk Chase County -8. A. Breese, Clerk.

Elk County- Geo. I hompton, Clerk

### MULK-Taken up by E. C. Canger, Langton Tp, Dec. 6 1875, one brown nears mule bout 15 hands high has appearance of being worked with breaching harness, about 15 yrs old. Valued at \$25. Jefferson County-1 N Insley, Clerk

STREIL—Taken up by Joshua Simmons, Jefferaon Tp, Dec. 4, one red steer a yrs old, white spot in face, crop off left and awallow fork in right ear, white spot in each flank. Valued at 818.

MRE—Inset up by T. A. Turner, Rock Greek Tp, NOV 12, one bay mare Syears cld, 15 hands high. Valued at \$65
11.LY—Taken up by B. Boydston, Rock Creek to,
Nov. 28. 1858, one sorrel filly, 1 year old, small size, pony
bilt, small white spot in torehead. Valued at \$20
Filly—Taken up by Lev Wendorf, Jefferson 19, Nov.
29, 1858, one datk iron gray filly 3 yrs old, little white on
left hind foot. Valued at \$28. left hind foot. Valued at \$35.

HOR-E-also one dark bay (original) horse, 3 or 4 yrs
old, few white hairs ou right side of neck. Valued at \$35.

COW—Taken u. by Ed Carter, Fairview 1p. Dec. 11,
one white cow 4 or 5 years old, crop and slit in each ear.
Valued at \$15.

Leavenworth County-J W Nichaus Clerk. MARE—Taken up by J. T. Hillix, Tonganexic by, ov. 8, 1878, one black pony mare, heavy black mane ut int, no other marks nor brands perceivable, 6 or 7 are old. Valued at \$25.

Linn County-J W Flora, Clerk

STEER—Taken up by J. H. Jones, Scott Tp. Nov. 9.
1873 one following or Texas steer 8 yrs old, white with
red neck and laws, marked with swallow fork in left ear,
some brands not 1: gible. Valued at \$25.
81 EEK-Taken up by Jas Martin, Valley Tp. Nov. 29,
878, one red brindle steer, white spot on right side, brand
on left nip, swallow fork in right ear, 1 yr old. Valued
at \$19.

E-Taken up by L. Baldwin, Potest tp. Nov. 1; a dark hay horse about 16 wands high, heart brands takenuder, 4 yrs old. Valued at \$35.
E-Taken up by J. B. Halston, Putos Tp. Nov. 16, a sorrel mare, star in foreusad, 2 yrs old. Valued & CALF—Taken up by S. A. Mackey, Valley tp.
D. one cow and calf, cow red and white spotted,
ded brand with small 8 in it, on left hip, 2 yes old,
p-Valued at \$15.

Jon County—Wm F Ewing, Clerk.

Jon County—Wm F Ewing, Clerk.
—Taken up by R. H. Beat, Waterloo tp, one it ly rold, black, branded C on right hip, hind feet ar in forchead. Valued at \$15 Waterloo, one red for the shoulders, behind solders light roan, e, no other marks, behind at \$16 to \$1.0 the marks by \$0. Evans, Emporia Tp, red valued at \$16 to \$1.0 the marks with steer cair, no other marks with steer cair, no other marks to \$1.0 the marks behind the steer cair, no other marks to \$1.0 the marks beautiful at \$1.0 the marks beautiful at \$1.0 the marks beautiful at \$1.0 the marks produced at \$2.0 the marks produced at \$1.0 the marks produce abaunsce County-I' N Watts, Clerk.

dson County .- I N. Holloway, Clerk.

ays for Week Buding Dec. 25, 1878

Allen County-T. S. Stover, Clerk.

urbon County-James H. Brown, Clerk.

Coy County-W. H Throckmorton Clerk

Elk County - Geo Thompson, Clerk. 8 R.—Taken up by jerry Wilson, Longton tp, Nov 10, obrowe roan, yearling steer, no marks nor brands Val at \$11.

Genwood County-F. J. Cochrane, Clerk. HISE—Taken up by David Emmerson, Rireka Tp. took one bay horse about 3 yrs old, branded A on left hinger, left hind foot witte. Valued at \$30. His Marked with Boure 2 with bar over it, on left shaded with Boure 2 with bar over it, on left shaderft hind foot white, small white spot in face. Valuerft hind foot white, small white spot in face. Valuer

Jason County-J. G. Parterfield, Clerk. CV-Taken up by R. D. Merdows, Straight Creek tp old, one red and white posterior is all its in a list of the back around the state of the state

Vald at 314.

HFRIK-Taken up by A. J. Smith, Straight Creek tp.

Des, one roan or speckled helfer, red nock, white spot
in fehead, branded on right hip, 2 yrs old, Valued at

16. NRB—Taken up by E. J. Dunahue, Douglas tp, Dec., te chestnut correl mare about ten hands high, 9 yrs do marks nor brands. Valued at \$25. Lyenworth County-J W. Aelhaus, Clerk.

d.T.-Taken up by Miller Turpin, Tonganoxie tp, Dets, one roan horse colt, 2 yrs old next spring, oue hirawn. Valued at \$15.

R. LY.-Also, one bay filly 2 yrs old next spring, star in fortesd, right hind loot white. Valued at \$15.

Miami County—B J Sheridan, Clerk.

SER-Taken up by J. W. Zinn, Richland tp, one red and its spoti-d steer, mostly red, slit in rightear under bit il n car, 5 yrs old. Valued at \$33.

SER-Taken up by J. H. Dunn, Stanton tp, a red stee yr old, brand on left hip supposed to be J. Valued \$13.

SER-Taken up by Lewis Ebert, Middle Creek tp, willing steer spotted red and white, no marks nor Sike-Taken un by Lewis Ebert, Middle Creek pr. yiling steer spotted red and white, no marks nor rats. Va ued at \$12.

Signe—Taken up by Jas. Dunn, Richland tp., a red tee vrs old, some white under flunk, end of tail white, to white spots on the white in the preference. Richland tp., a red see white in the ose lend, white belly, two white spots on feel white in 6 ose lend, white belly, two white spots on folk the spots of first of legs, tip of tail white, 2 yrs old falls at \$17.

Stiffers & HEIFEE—Taken up by H. O. Peery, Marystille p. 2 yearling steers, one roan the other red, hel er ed thi line back, all marked with upper and underbit n le lear. All valued at \$22.

Stiffers & HEIFEE—Taken up by Win. Shannon, Sugar Creek Tp., whis yearling steer, small nek in end of right ear. Valued at \$42.

hi yearling steer, sman mes in a side of at \$44.

I.R.—Taken up by T. B. Robinsen, Marysville tp. a beer one year old past, split and underbit in right derbit in left.

—Taken up by W. J. Jones, Middle Croek tp. a red vite spotted cow 2 yrs old. crumply horas, branded hoss on left hip, has with her a small seeking call.

tell.

Itel and up by Jas. S. Williams, Sugar Creek ith—Taken up by Jas. S. Williams, Sugar Creek ithe helfer, smooth crop off left ear, swallow fork crolt in same ear, and under half crop off right old. Valued at \$11.

SH.—Also a 2-year-old helfer with blue sides and ck, marked with smooth crop swallow fork and in left ear, under half crop off right ear. Value. il kR—Taken up by Jno. Ward, Marysville tp. a white spotted heifer, supposed to be 1 yr old. Valucd as 12.

GOL-Taken up by Caleb Servor, a dark horse yearling och black mane and tail. Valued at \$12.

GOL-Taken ap by B. F. Endlozit, Sugar Creek tp, a
bay ades colt 1 yr old, medium size, had on neck a rope
collar jib board attached with letters "Bros" on one
side si "Fry" on the other. Valued at \$20.

MUL-Taken up by James Cartw ight, Valley tr one
brownhare mule 1 yr old, white nose and belly. 1 lued
at \$25.

Also, a mare mule 1 yr old, black with white hage County -Ed Spaulding, Clerk.

Riley County-Wm. Burgoyne Clerk COLT-Taken up by Job Welton, Ashland to, Nov. 20, one bay mare colt 2 yrs old, hind feet waite, star in fore-head medium size, no brands. Valued at \$30.

Wabaunsen County -T. N Watts, Clerk. STEER-Also, one yearling steer, light red, lige back this on trivehead, white spots on belly, tall red and the walled at \$18.

LUW—Taken up by Fred Redemske, Farmer tp, one ow Roy 10 years old, pals red, white in forehead line back this hind feet up to knees, whate tall, no other merks or banks trible. Volumed at \$14.

COW & CALF—Taken up by Carl Forstenon, Alma Tp no cow and young calf, cow about 6 yes old, light roamper part of it ficar seem to be cut off. Valued at \$12, Wilson County—Gus McFadden, Clerk.

1 bay mare, 4 years old, left hind foot white, blaze face.

HEIFER—Taken up by Laughlin McLanen, Cedartp,
one red heifer 3 yrs old, belly and end of t-il white, crop
off both ears, right ear spilt, Valued at \$12.

BULL—Taken u- by Admin Fater Verdig is tp. one 5
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physical streng more we help to nighted fellow will be to pur and in this . Year's vows ter and stron

Our art-co. and me. Th ABOUT GLACIERS.

It isn't so very long ago that nothing what. ever, in a scientific way, was known about glaciers. In 1840 Prof. Agassiz went to Europe, and for several years we might almost say he lived on the lor. About this time several professors made useful discoveries Is was found that the ice moved all the year round, though slower during the cold winter and during the sold nights than at midday. The way they tound cut that the glaciers moved tarter in the center than upon either side was to pus a row of stakes straight seroas and in a little while it was acticed that they began to curve with the onward motion of the ice Prot. Typdall discovered that when the glacter was flowing through a bend in the valley, the most rapid portion was not in the center, but on the convex side of the curve. You see that in all movements the ice follows the same general laws that regulate a river of

In the first article it was stated that solen tific men are in doubt as to the exact manner in which the ice gets its motion, and how the solid mass sompes itself to serrow and wide beds without breaking all to pieces.

One of the most important theories is that advanced by Mr. Tyndall, who says that it must be the result of regelation, a property of ice discovered by Prof. Faraday. When two pieces of ice are near the melting point and come together, they freeze so thoroughly that no trace of the broken surfaces remains. This is called regulation. By means of this proper ty a solid glader itself is formed. Year after year, with the days and nights of alternate melting and freezing, is the mass forming in layers, each layer corresponding to a fall of snow, until there's the tremendous pressure of which the Professor spoke Knowing what regelation meens, we can see how closely the fragments of ice throughout the lower portions of the glacier must be welded together se their surfaces are brought closer and closer to each other under the pressure from above

You may wonder how it is there's any melting, or anything like it under the surface, but the off-ct of the alternate freezing and thewing is felt throughout the mass.

Let us see how this theory is brought into use in trying to find out how a glacier moves down a mountain side without tumbling to pleces. Prot John Ball, of Londor, in describing Typdall's application, says :

"The first effect of pressure is to cause fractures in the ice, and thus enable the fragments to assume new relative positions. Ow. ing to the property of regelation, the newlyformed surfaces when brought into contact reunite by freezing together; but if the pressure be continued new fractures arise and regelation again welds the parts together; and the process is repeated until a condition of equilibrium is attained. The enormous weight of the mass is partially resisted by contact with the sides and the bottom of the valley, but acts with a greater force and en counters a less resistance in the center of the ice stream. This force, not acting uniformly. but constantly shifting the point of greates pressure, causes local yielding and frac ure o' the ice; and if it were not for the property of regelation the glacier might gradually be reduced to fragments. But at each step in the progress of the glaciers the damage done to the continuity of the ice is repaired, and by the two-fold process of fracture and regelation the whole mass moves onward, constantly changing its form, yet in appearance an al most continuous mass."

Other professors believe that in portions o the glaciers where the pressure is greatest the ter finding its way to places where the pres sure is not so great, freezes again. You can see that masses of water scattered through the ice river the glacier might readily form itsel to suit its channel and yet appear solid. D you know why pressure will convert ice int water? You remember that ice will float or the top of cold water, which proves that water when near the freezing point is deneer that ice. Scientific men tell un that when pressuris applied to ice the particles try to form new arrangement to take up less space, and this they can do by becoming w ter, the lattbeing denser than ice, as we have just said you know. That's not such a bad theory glacial movement. Do you think so?

Crevasses in a glacier are opened during the summer when the ice is moving quite fast. The largest breaks occur where the bed auddenly becomes steep. In winter when the ice moves very slowly, these crovasses are gererally filled up

These cracks in the ice are sometimes hurdreds of tee: deep, and so wide that travelers are often stopped in their climbing. Guideknow where to look for these obstacles, for they form in the same places year after year.

Do you wonder where a glacier goes if it keeps on moving all the time?

There is a point in the ice-stream's journey where the melting about balances the freeing, and no more glacier ice can form Bit from 'way up at the mountain top, like an immense spring of an immense river, the glacier is being constantly renewed.

When the sun is warm the surface of th ice is melted and the little streams run abou until they find some tissure through which they fall, and if not so far up the glacier that they freeze, they find their way down to the ground, and run along under the ice till they some out in a rushing stream from the end c the glacier. When warm winds blow or heavy rains occur, the stream from under the loc becomes a roaring torrent and rushedown the mountain slope inundating the country skirting the base.—Christian Union.



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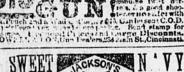
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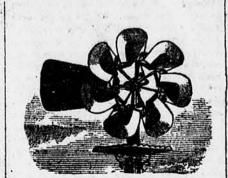
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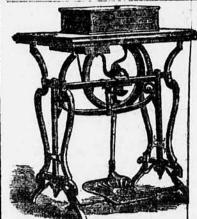
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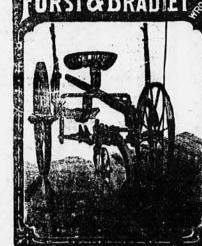
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