ESTABLISHED,
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Las Animas, Bent County, Oolorado. Spectal Correspondence Kansas Farmer
Twenty years ago it was said and firmly believed that Colorado would never become an agricultural State; that outside of its mineral resources the people would, of nemineral resources the peoplert all the processity, be compelled to importail farm, and
ducts usually produced on the fat ducts usually produced on the rarm, and
that the State would only be productive in that the State would only be productive in this prediction was hastily made and unthis predicticn was hastily made and un-
timely, one has only to refer to the agricultimely, one has only to refer to the agricultural reports or visit the State and learn for himself. After several dass spent if looking over the country surrounding Las Animas, the county seat of Bent county, and getting some idea of the improvements, productions and the opportunities presented for the homeseeker and investor,
briefly, note a few points thereon.
Bent county is 110 miles long by 84 in width, and is bounded by Kansas on the east. Its surface is chiefly level prairie, and better watered than any similar area western Kansas. Considerable timber is found along the streams, and where planted and properly cared for, makes an excellent showing. There are about $6,000,000$ acres of land, of which only about 150,000 is patented or deeded. Millions of acres are open and subject to be entered under the provisions of the government land laws. The county has been under the control, by possession only of stockmen, whom, as is well known, a! ways discourage any attempts at farming, but the day for an absolute monopoly of the vast public domain by one class of producers vast public domain the past. In conversation only, is a thing of the past Inconversation
with many of the prominent cattlemen with many of the prom stock roam almost
whose whose 250,000 head of live stock roam almost
at will over nature's great pasture-Bent at will over nature's great pasture-Bent county, I learned that they see the irresistible tide of immigration rolling on westward and pouring over into southeastern Colorado
by the hundreds now every day. He knows by the hundreds now every day. He knows
that the day is past for free range, and that that the day is past for free range, and that all Bent county, like central and western united thousands of homeseekers whose energy, faith and labor have developed all Kansas up to that standard that ber prosperity is the fireside talk of millions of homeseekers all over the States of the entire Union. That the soil is rich and can be made to produce, a person has to only go and see it for himself. One of the greatest advantages ot Bent county is that a large portion of its territory is so situated that, if needs be, it can be irrigated, thus positivety insuring a crop, no matter what may be the condition of the elements above. Strange as it may seem to an Eastern man, though it is true, that where a farmer once runs a farm dons it for the old way. Here in this county can be seen everything that is grown on the farm in this latitude. Open dry weather farm ing the winter months is the general rule, during the wis it it is very comfortable without an overcoat. More days of sunble withen a drought ever troubles shine and no fears of a the granger night or day who is as it called, farming under the ditch. On either side of the Arkansas river, which courses through Bent county in an easterly direction, at from twenty to files in length, will, if one may judge from present indications, be one entire farm and garden, and in $s$ very few yeurs. Lands can now be had, though at the rate that entries are being made at the
United States land offices at Lamar and

Pueblo, it will be but a short time before the Pueblo, it will have been taken and settled upon.
booming las animas.
This place now contains about 900 inhabtants, whose pride is shown by the neat and tasty dwellings, surrounded by trees, all over the townsite. There has never been any exertion made to get up a boom for the reason that it was practically a stockman's town. Last year, merchandising aggregated nearly half a million dollars outside of the live stock business. It now has the main line of the Santa Fe road, and a strong company has undertaken the building of the Kit Carson, Las Animas \& Southern road, fifty miles of which is graded. The Santa Fe running east and west and this new road north and south through tbe county gives an

## Shall We Burn Our Oornstalks?

 An essay read before the Hiawatha FaIn order to answer this question properly we have to take into consideration not only the immediate object we desire to attain, but also the indirect results that follow.
The principal object is to get the stalks out of the way, so that they do not bother us in the cultivation of the corn. The question to be answered practically by each farmer in his own mind is: How can I do this with the least labor and expense, and with the bgst results to succeeding crops and the con dition of the land. Theory will not do much rood here, but experience and observation are the only true guide.
Judging from this criterion, I have aban-

let in four directious and makes Las Animas a railroad center of considerable impor tance. The funds, $\$ 25,000$ in cash, is now in bank to build a new court house, which building to cost $\$ 10,000$ will be built this coming spring. A hotel company has been incorporated with a capital of $\$ 10,000$, and the site selected on which to erect a hotel at once. Not that there are now two good hotels. but that the increasing business needs another. All branches of trade are represented that are usually found in towns of its size, yet there is and will be room for more s the tide of emigration pours in and takes as the tide of emigration pours in surroundpossession the ther miles and miles. The towning the town for 640 acres, of which site originally contained by acres, of whic 480 are now owne citizens of the town. The tual settlers and citizens of the thwn. The ritle to the townsite was obtained of the United States under the law governing townsites, thus insuring a good and perfect
title.
On the $23 \mathrm{~d}, 24$ th and 25 th of this month February), under the direction of the Mayor and City Council, there will be of ered at auction to the highest bidder 1,176 oown lots. This will give investors an ex cellent opportunty to put money into real estate in the county seat of one of the best and richest counties in all the State of Colorado. After months of travel over this Western country, I have not found a better opportunity whare money invested will be surrounded by a better country nor one that find also the one can buy town property of privare individuals at very favorable figures.

Las Animas, Col., February 5, 1887.
Guinea fowls are great insect destroyers.

## oned the burning of stalks for the follow

 ing reasons:1st. It costs less labor to cut tho stalk with a stalk-cutter than to cut, rake and burn them. A boy can easily cut six or eigh acres a day with a single cutter. With a double cutter-one that takes two rows at a time-a man, of course, can cut twice as much. The cutting, raking and burning is not only slower, but the weather may be unfavorable, and the process still slower, and cannot be done well or in good shape. On land designed for small grain all that is necessary is to break down the stalks, so as to facilitate their being plowed under in good shape, leaving the land smooth.
2d. My most important objection to burning stalks is that we rob the soil by doing so. The ashes, the only fertilizing remains of the stalks on the land are generally blown away into the hedges and sloughs. When we haul off the corn and burn the stalks and the wind blows off the ashes the process of impoverishing the soil is greatly increased. Drop by drop the spring runs dry if restoring rains do not refill the source or fountain from whence it flows. The fields that have the stalks burned may be likened to a barrel of cider that is sapped at both ends-the pply will soon be exhausted
But it is not only fertility that is restorad to that extent by plowing under the stalks. The decomposing stalks absorb moisture and retain it longer than the ground, so the roots of the growing corn seek these favored places, ramify therein and are thus sustained through a period of drought.
There is still another important point speaking in favor of plowing under the stalks. It makes the ground more loose and mellow, so as to freely admit arr and moisture, and prevent washing. New land is naturally more loose than old land. There may
be an excuse to the farmer that has new land to burn his stalks, especially if he has land to burn his stalks, especiainy if wo his not stock enough to eat off the husk, which and generally has heavier stalks, and more chinch bugs (which some persons claim to be able to destroy by burning the stalks). But this I think is a mistake. For although they hibernate to some extent in stalks, they leave them during the first real warm day in spring and seek green pastures, and these warm days generally come before the stalks are burned.
I have also heard it stated as a claim in favor of burning the stalks, that thereby much of the seeds of weeds would be destroyed.
But this plea hardly deserves notice. For where farming has been so slothful as that the seeds of weeds can be raked together the seeds with the stalks to any apmrecia and burned will still be enough seeds ble ext to insure an abundant crop of the same kind next year.
kind next year.
On account of the reasons here given would answer with an emplitite no to the would answer with an empliscussion; and as far as my observation goes, the most suc gessful sarmer pither never did barn 'stalks or has ahandoned the practice.

Ideal Feed Mill and Horse Power Oombincd.
It affords us pleasure at all times to make mention of meritorious articles to our readers, and in this connectiop desire to call attention to the Ideal Feed Mill and Horse Power Combined, an illustration of which appears on this page. The mill has been advertised quite extensively in our columns and has found a laree sale throughout the United States as well as in forelgn countries, which is constantly increasing.
It is a triple-geared machine, built similar to a horse-power, with a grinding mill in the center elevated sufficiently to be out of the way of the gearing, and is nearly as compact as the old-style feed mill.
The grinding burr makes thirty revolutions to one of the horses, and the tumbling rod sixty, thus giving sufficient speed to make it efficient in doing all the work required of a machine of this kind.
The burrs are provided with riders to protect the grinding surfaces and prevent them cutting each other. One set of these burrs it cutting each other. One set of these burrs it is claimed will do as much service as two or three sets of similar burrs not having protection. This feature is covered by letter patent granted the manufacturers, and is regarded of special value
The mill will be sent on ten days trial to any responsible party subject to the war ranty placed upon it. Write the manufac turers, Stover Manufacturing Co. Freeport, Ill., for illustrated catalogues and prices, which will be sent on application.
Few things are more necessary to success in life than decision of character. With it a man can rarely fail-without it he can rarely succeed.
A soul conversant with virtue resembles fountain: for it is clear, and gentle, and sweet, and communicative and rich, and harmless, and innocent.
It is a mistake to imagine that the violent passions only, such as ambition and love, can triumph over the rest. Idleness, languid as it is, often masters them ail.

## Che Stock Jnterest.

## dAties claimed for stock sales.





## Diseare Affeoting the Eyes of Sheep.

 By E. A. A. Grange, Professor of VeterinarySclence, Michigan Agricultural College.
During the summer and autumn of
last year, my attention was called to a disorder among sheep, which affects their eyes in such a manner, that it will sometimes leave them blind in one or both organs; fortunately, though, the disease yields to treatment in the majority of instances, not, nowever, before going through a stage of very acute inflammation, causing much inconvenience and suffering to the afflicted Venience
animal.
The disease, as I have had occasion to observe it, breaks out in a flock, attacking one animal after another, in such a manner as would naturally give one the impression that it is of a contagious nature. At the same time, a very large proportion which are exposed seem to be armed with that peculiar weapon, "immunity," which renders them proof against an invasion.
In comparing my obsorvations of the complaint, with descriptions of the diseases of sheep, by various authors, I was struck with one account, by a wellknown writer upon veterinary topics (Youatt), who, writing in the early part of the present century, and quoting, in substance, an old shepherd says: "That sheep, when wandering over the moers, will sometimes accidentally tread upon a lark's nest; that the old bird. becoming alarmed as to the safety of her offspring, will rise up, like a game chicken, and spur the intruder in the eyes, and it (the sheep) is then said to be 'lark-spurred.'"
From the above it can be imagined how popular the term "lark-spur" would become among attendants upon sheep; besides, it was an easy way of accaunting for the appearance of the malady. Under the circumstances, the disease was frequently left to run its course, and as a result, cataract. with total blindness, was a common termination. So common bas the term "larkspur" become in some countries, that spur" become in some countries, that
it is applied to nearly all diseases affecting the eyes of sheep by, certain people.
In naming the disease, I think the most appropriate term which can be applied to it is "Enzootic Ophthalmia; ;" for, like other enzootic diseases, it attacks a number of animals in a certain locality, or it may be confined to a single farm, while the term ophthalmia is now universally applied to certain diseases of the eye, both in human and veterinary medicine.
The cause of the disease, like the
cause of many similar enzootics, is still cause of many similar enzootics, is still
wrapped in deep obscurity. I need hardly say that I do not believe in the lark-spur theory. Then there are those who say it is the result of fatigue, overdriving upon dusty roads, for instance, or exposure to cold after shearing, orindeed at any time, and that sudden changes of the weather are liable to bring on an attack. Although it may be true that any debilitating influence, such as exposure, etc., is liable to render an individual more susceptible to the complaint, yet I cannot think that they alone will produco it. Indeed, it seems to have no respect for the condition of the animal, breed or sex, age or size, or other circumstance that I can suggest, unless I take advantage of that now fashionable way of accounting for the
existence of certain maladies, and con-
demn it as a " malarial trouble;" for it is not at all improbable that a specific
virus floating in the air, and finding a virus floating in the air, and finding a
suitable habitat in some sheep, will perform its various eccentricities.
Symptoms.-The complaint is easily recognized, as several animals in a flock will becomesuddenly blind, without any apparent cause. Taking a casual look at the malady, one cannot help being impressed with the similarity between this disease and pinkeye in horses; but closer obsesvation will show with tolerable certainty that they are two distinct disorders.
On watching the course of enzootic ophthalmia in sheep, from day to day, we will find, Grst of all, that the sight of the eye, instead of presenting that bright, glistening appearance, characteristic of it, will be dull or opaque looking, the eyelids will be inflamed, and the animal will not be able to tolerate light, but be constantly blinking, tears will flow profusely over the cheek, and there will be more or less discharge (of tears) from the nose. In the course of a day or two the eyes will appear redder and larger, which condition will often be accompanied with, or followed by, angry-looking sores upon the sight. These are seen, sometimes, to eat their way through the eyeball, and allow the internal structure of the eye to escape; that is, the fluid portion; when the inthat is, the fluid portion; when the in-
ternal structure becomes involved, a cataract and permanent blindness liable to be the result.
This ulceration never occurs in pinkeye in horses, that I am aware of, nor does it in mild cases in the sheep.
The constitutional symptoms, like the local, vary considerably with the individual. In some I have found but slight fever, while the clinical thermometer would indicate considerable elevation of temperature in the next one examined-ranging from 102 to 105 deg. Fahr. Some animals lose their appetite; while others eat tolerably well, the bowels become more or less constipated, unlike pinkeye, is there that disturbed condition of the alimentary canal so often noticed in the horse. Nor does there appear to be the same tendency for sheep to abort, as there invariably is with the mare in the latter half of pregnancy.
While the constitutional symptoms of pinkeye appear to be much severer in the horse than the constitutional symptoms of the disease resembling it in sheep, yet the opposite is the cas with regard to the local symptoms.
Treatment-Of this disease should be both local and constitutional, and the surroundings of the animal should also be properly considered.
The affected sheep should be placed by themselves, in a comfortable, dry shed, well-aired, darkened to prevent unnecessary irritation from sunlight. The eyes should be thoroughly fomented with warm water every day until the acute symptoms subside, or say for about four days. After fomenting I have found great benefit from the apolication of a weak solution of nitrate of silver, say about five grains to the
ounce of pure rain, or distilled water. ounce of pure rain, or distilled water
If the eye is ulcerated, touch the ragged sores with the pure lunar caustic occasionally. In applying fluids to the eyes, a few drops may be shaken from the ond of a small vial, or a common quill run through the cork, makes a con-
venient way of putting in the medicine. i have also used a camel hair brush or soft feather; either will answer very well. Of course the attendant will re quire an assistant to hold the sheep, while the medicine is being applied.
The constitutional treatment may be directed, first of all, to the bowels, and
if they are not operating regularly, a
saline purgative should be given, say Epsom salts, four ounces dissolved in
half a pint of hot water and allowed to cool. A bont forty-eight hours after the purgative has done its work. should the inflammation still remain in the eyes, diuretics may be given. Among others, I have found relief following the administration of nitrate of potash when prescribed as follows: Take three drachms of nitrate of potash, and dissolve it in eight ounces of water. One ounce of the mixture to be given morning and evening. If at the end of a week from the time of the first dose, the inflammation bas not entirely subsided, the diuretic may be repeated.
During the treatment, the sheep should be fed upon laxative diet, such as roots, bran mash, linseed, and the ike.

## Stock-Raising Necessary to Sucoessful Farming.

A Pennsslvania farmer thus expresses
himself in the Thoroughbred StockJournal:
Owing to the great depression in business which has prevailed for several years past, caused, it is supposed, by overproduction of iron, coal and manufactured goods, production was reduced, wages were lowered, and laboring men were obliged to economise in their living expenditures. Meats being relatively dearer than bread and vegetables, less meats were consumed, the demand for cattle became less and prices lower Owing, also, to the immense increase of cattle in this country, by the herding business on the plains of the far West, and to the restrictions placed by Great Britain on our exportation of live stock to that country, the supply has exceeded the demand, and consequently the common cattle have been low, and raising them here in the East generally unprofitable.
Indeed, some shrewd farmers have declared that ordinary cattle could only be raised at a loss; that the hay they consumed would bring more money directly after harvest than the cattle fed upon it would fetch in the spring following. Some men, who are considered good farmers in Bradford county, sold off heir cattle several years ago, and have since then sold their hay, asserting that they make more money thereby than by raising cattle and feeding the hay on the farm, and that they save themselves all the anxiety and drudgery which the care of cattle reguires.
There are some farmers, like Mr. T. B. Terry, of Ohio, who believe, or pro fess to believe, that good tillage is manire, or, at all events. will answer instead of manu $e$, and produce gond crops for a long period of time; and that so long as they can obtain good crops by good tillage, they are not going
to borrow trouble about the future. They raise clover and plow it under. They know, what all intelligent farmers know, that long-rooted plants like clover push their roots far down into the subsoil, arrest and appropriate the fertility which has escaped from the surface and sunk beyond the reach of most of the cereals and grasses, bring it back, transform it into $a$ blooming mass of luxuriant herbage, which renders the soil mellow by its dense shade, and when plowed under, soon decomposes and furnishes a ready supply of plant food for the hungry young rootlets of grain crops to feed upon. This system of clover farming adds nothing to the draws from below, and collects at places within the reach of crops the fertility which was scattered and un available. Sir J. B. Lawes, as an ex perimont, has raised wheat on the same leld for thirty years in succession, withother fertilizer or raising clover, and
still gets 6 ive or six bushels to the acre. He has found that notwithstanding the very best of tillage, the field slowly and steadily deteriorated, and the crops become less and less. The result of his experiment is in exact accordance with reason

Let a farm once become impoverished," says Mr. Lawes, "I know of no way by which that farm can be restored to its first condition from its own resources." It must be done, if done at all, by the help of manure obtained from abroad.
Mr. W. J. Chamberlain, President of Iowa Agricultural college, says: "The whole of the soll is greater than a part, and that constant subtraction will diminish even the largest minuend."
The history of agriculture in all ages proves that where fertility is extracted from the soil it must in some manner be returned; that " nothing can be created from nothing:" that " where nothing is given, nothing should be required."
Farmers living near large towns, and selling their produce from their own wagons to consumers at retail prices, may find it to their interest to buy their manure instead of keeping cattle to make it on their farms. The advantages derived from their locality may enable them to keep their land in good condition without keeping cattle. But farmers who live far away from the towns and cities, who are obliged to pay freights for transportation and commissions to sellers, cannot afford to buy manure, even if they could obtain an adequate supply. Their chief, if not their only resource, must always be to keep cattle and sheep, to convert their straw, stalks, hay, roots and coarse grain into manure, to be applied to the soil frequently, regularly and in suffcient quantities to raise good crops ; because it is only the good crops that are proftable, and make farming a desirable occupation. Lime, plaster, kainot, marl, guano, and South Carolina rock are aids to agriculture when they can be cheaply obtained, but the main dependence of farmers always has been, and always must be, the manure obtained by feeding domestic animals on the farm. The history of the world in all ages, and the experience of the present day, clearly prove the necessity of stock-raising for sureessful agriculture. Except in the cases mentioned, where farmers live near good markets, and can buy manure in sufficieut quantities and at reasonable prices, there is no other way of escape from s sil ex haustion than in keeping good stock to consume the coarse gratn and bulky products of the farm and manufacture them into manare.
Good tillage merely enables the farmer to extract the heart's blood from the soil so long as a drop remains. Clover bas no power to entrap and appropriate the nitrogen from the atmosphere, as some people suppose. It is but a powerful pump, to bring back the fertility which has sunk into the subsoil, beyond the reach of most other plants.
Commercial fertilizers, valuable when used in connection with barnyard manure, are merely stimulants to plant growth, and like stimulants to the numan boay, only hasten on the period of general debility and exhaustion. The sewage of the cities, and their privies, will never be utilized to any great extent. The sea will never give back the immense mass of rich soil which the rivers transported to its depths. No system of farming has ever been devised, or ever will be devised, which will supersede the necessity of keeping stock. Whether profitable or not, so that it is not kept at a loss, stock must bo kept by the great body of farmers the world over for the benefit of their farms.
In England, so long ago as 1859, it
was said by the Hon. Henry R. French that " the cattle kept and fattened are reckoned to afford no profit beyond their manure. At that time English breeders of thoroughbred stock were obtaining fabulous prices for superior animals. with pedigrees as long as the genealogies of their nobility. If the common cattle of this country have not paid for their keeping, let the farmer try to improve them. laising good stock, like raising good crops, always pays. The scalawags, so common in this country, resembling Pharoh's lean kine, able to devour anything on the farm within their reach and still remain lean, are not generally profitable.
The only means to successful farming is to keep cattle and "to keep the best."

## In the Dairy.

## Dairy Notes.

By T. D. Curtis, in Rural New Yorker.
bad ventilation of stables. It is a singular fact that in ninetenths of the cases, the fresh air is let into the stable at the rear of the cows, instead of in front of them. The result is that the cold air drops down behind the cows, in its way to their heads, and sweeps along with it the odors from the smoking droppings, added to the constant exhalations from the cows
bodies, for them to inhale at every breath. Some have even argued that this is the correct way of introaucing pure air because animals turn their tails to a beating storm! They forget that the animal seeks to protect its eyes, and to avoid a strong current which interferes with breathing, while its head is still in the midst of plenty of fresh air. The cases of a cow in a storm and a cow in a stable are not the same. Any animal closely confined will instinctively turn its face to the light and its nose to the fresh air. Usually there is some upward draft in front of the cows, but often there is none, while few make a free use of absorbents or deodorizers. On entering, the air is loaded with offensive effluvia and almost suffocating. And then the dairyman wonders why his milk tastes and smells of the stable!
No amount of careful milking and handling of the milk will prevent this mishap under such circumstances. The odors and flavors which baye been inhaled by the cows have mingled with their blood and poisoned their bodies, and the milk secreted from the blood is loaded with these odors and flavors before it is drawn. See that ventilation is perfect.
HEADS TO THE CENTER OR TO THE
Which is the moreconvenient, to turn your cows' heads to the wall and feed at the sides, letting the droppings gather in a passage-way between them in the rear, to be taken $o$ it on a sled or cart driven through, or to have the cows face together, so that all are fed from a single passage-way, while the droppings are scattered along the two sides, occupying twice the space needed? Or do you want to shovel them out through the window holes in piles against both sides of the stable, to stand until they are drawn out in the spring, when you are in a hurry with your work, or be left all summer rotting and leaching, while your crops suffer for lack of them? Would it not be better to put the cows' heads to the walls, giving them the benefit of fresh air, with proper ventilation from their rear up through the roof of the barn? Wouldn't it make the cows hea! thier and the product sweeter? Then would it not be better to have the droppings all together behind and between the two rows of cows, and haul
them out at least once a day, either most good." or piling them on your manure heap. under the manure shed to manur

CLEANLINESS VS. FILTHINESS.
Governor Seymour once said, before the American Dairymen's Association, that "cleanliness is a comparative term," and he requested the speakers to be exact in stating what was necessary to be done to secure c'eanliness. This was a good idea. But I have observed that while everybody has some idea of cleanliness, there are some who appear to have no idea of filthiness ! To them everything is clean. These are the ones that make a good share of the store butter, so much of which has gone into the market as grease. They keep their cows in the reeking atmosphere of a dirty stable, milk in a slovenly way, and
never half clean anything that is used about the dairy. But how can they be reached asd instructed? They think they are cleanly, and it will not do to tell them thay are filthy. The creamgathering or almost any system that will prescribe exact rules for managing the cows and handling the milk is a blessing to such dairymen and the community. This class of dairymen do not attend dairy conventions or read agricultural papers, yet they are a numerous class and need enlightening.
WHX DON'T THE CREAM CHURN ?
I have just received a communication rom a correspondent in East Saginaw Michigan, asking why it takes three to six hours to churn his cream. I confess I don't know. The puzzle to me is why the butter comes at all, if it takes so long. Sometimes no butter can be churned from cream. Dr. Sturtevant mentions an instance where the cow had gone farrow a long time. Two cases of cream that could not be made to yreld up its butter to the persuasions of the churn were mentioned at the convention of the Iowa State Dairymen's Association in 1884. Nobody was able to explain the reason why. It was a condition that came on suddenly, without any apparent cause. My correspondent's trouble came suddenly on the 28th of November last, just after the churning had been done in tifteen to twenty minutes. The temperature of the cream was 60 to 64 deg. He wants to know if it is in the food, which "some oats, carrots, barley meal. cornstalks, and millet for hay." At the time of writing, eighteen churnings had acted in this way. The cream is probably viscous and ropy, though he says nothing of its appearance. But if the butter refuses to separate in two or three hours, why should it separate at the end of five or six, if there is no change of condition but what the churn produces ? Perhaps some of the readers of the Rural New Yorker can explain the matter. I confess, with Dr. Sturte vant, that I am every day puzzled with unexpected results, and "feel I do not now about dairying as I used to think

## I did."

## GOOD DAIRY.

John Allen, of Lyndonville, Vermont, says, through the Manchester Mirror, that his dairy herd has for years averaged " 300 pounds of butter per cow or a little better." There are other such herds in the country, and there is still profit in such dairies, notwithstanding low prices. The marvel is that so many dairymen are content with $1 \iota 0$ pounds of butter per cow, when it is possible to double the yield without materially increasing the expense., Many cows are kept at a loss. Is not here a hint as to one of the best ways of cheapening production.
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of sharon buil at head of herd. Ftne show bulls and
other stock for sale.
GUERNSEYS--Elm Park Place, Lawrence Kas. L G Bullene, dealer in reglstered Guernisey Cattle.
Young stock for sale. Telephone connection to farm.
F HANK H. JACKSON, Maple Hill, Kas, breeder of
T. M. MARCY \& SON, Wakarusa, Kas, have for sale
T. Reglitered yearling Sharthorn Buails and Her Helfera,
of each thitry head. Carioad lots a speclalty. Come
of each thirty head. Carioad lots a speclaty. Come
and see.
J. S. GOODRICH, Goodrlch. Kas., breeder of Thor bred and half-hlood Bulls for sale. SIxty
Cows with calf. Correspondence invited.

CATTLE AND SWINE.
C. J. HOLMES Cattle and DO, Grinnell, Jersey Swa, breeders of Prices to
sult the tlimes. Send for catalogue.

PLATTE VIEW HERD-Of Thoroughbred Short Phorn Cattle. chester White and Berkshire Hogs.
Address E. M. Finney \& Co., Box 790 , Fremont, Neb.
 horn Cattle. By car lot or single. Alsoo breeder or
Poland.Chna and Large English Berkshire Swine. In
spection invited. Write.
sWINE.

W ALNUT GROVE HERD OF POLAND-CHINAS.

W. Bred Poland-China Swine, from most noted strains. Also pure-bred Bronze Turkeys. Have a
cholce lot of early birds at to to $\$ 5$ per pair. PIgs at
reasonable rates.
W. W. Waltmire, Carbondale, Kas., breeder for
Hogs. Stock years of for sale. Thoroughbred CHEsTER WHITE
M. MoKEE, Wellington, Kas, breder of PolandCholce
Write.

ELM GROVE HERD OF REGISTERED POLAND WashIngton Co., Kas. D. Hmis on hand proprietor, Gress of all agee ai
reasonable prices. Write for what you want or come
res reasonable prices. Write for what
and see. Satisfaction guaranteed.
W. PLUMMER, Osage Clty, Kansas, breeder of
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POLAND-CHINA HOGS AND PLYMOUTH ROC
Eggs in season, 81 for 13 . Catalogue free.
B AHNTGE BROS., Winfield, Kas, breeders of Large None but the best.
respondence sollcted

SWINE
OUR ILLUSTRATED JOURNAL- - A full and com-
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F. W. ARNOLD \& CO., Osborne, Kas, breed Merlno
 I MPROVED REGISTERED MERINO SHEEP, PO-

SHROPSHIRE-DOWNS.-Ed. Jones, Wakeneld, Clas co., Kas., buberder and ramporter of shat ewes for sale, at low-
Downs A numer est pric
 34 lbs. to $38 \%$ libs.
Holiteln Cattle.

## POULTRE.

7 TOULOUSE GEESE EGGS - 81.50 : WYandotte,
Plymouth Rock and Black Cochl egge,
si.50 per 15,
WM. B. SCOTT, Emporia, Kas., for seven years a Eng breeder of pure-bred Plymouth Rocks and Large
Eale 1 .ah Berkshlre Hogs. Ekga and young plga for M AMMOTH BRONZE TURKEYS-Pure atock, bean-
 FRANK L. WOLFF, Topeka, Kas., Box 83 LIGHT BRAHMAS AND BUFF COCHINS. Send stamp for Circular.

## TOPEKA POULTRY YARDS. - Wm. A. Eaton,

 Topeka, Kas., breeder of Plymouth Rocka, LightBrahmas, Partridge and Black Cochlis. Can
W. \& B.Leghornion and
A. B. DILLE, Edgerton, Kas, breeder of Wyandottes, A1 per. 18. Turkey eggs 23 cents each. Satisfaction
siven. A few choce M. Bronze Turkeys at to per pair.
SUNFLOWER POULTRY YARDS. - TT. PURE-BRED POULIRY.
Leading varieties.
F Fairineld, Wabaunsee Co., Kas., breeder of emote Plymouth Rocks, A few choice cockerels and pullets
Wrice MARMATON VALLEY POULTRYYARDE Fort Scott, Kas,-F. G. EAton, breeder and shipper of
Thoroughbred Lt. Brahmas, P. Rocks, Wyandottes, B. Thoroughbred Lt. Brahmas, P. Rocks, Wyando
Leghorns, B, Javas, B. Coching, Mam. B. Turkeys, and
P. Ducks. Fowls for sale at all tmes. Send for circular. Correspondence solicited and cheert ac
 COLLEGE HILL POULTRX YARDS,-Pure-bred In season. Send for
Hill, Manhattan, Kas.

REPURLICAN POULTRY TARDE. PLYMOUTH ROCKS.-W. E. Doud, Eureka, Kas.
breeder of Plymouth Rocks. Egs, $\$ 1.50$ por 13 .
Birds for sale at from $\$ 1$ to $\$ 5$ each. EUREKA POULTRX YARDS.-L. E. Pixiey. Eu
 N. R. NYE, Leavenworth, Kas. breeder of the leadSAWNEE POULTRY YARDS-Jno. G. Hewitt S Prop'r, Topeka, Kas, breeder of chotec rarreties of
Poultry. Wy yandottes and P . Cochins a specialty. Egga and chicks for sale.

## NE DOLLAR PER THIRTEEN-For Eggs from my cholee Plymouth Rock Fowls and exra Peklin Ducks Mark S, Sallsbury, Box 31, Kansas Clty, Mo.

MISCELLANEOUS.
S. A. SAWYER, FIne Stock Auctioneer, Manhattan, Herefor, N. A.Gailoway, Anericen Aberdeen-Angus,
Holsteln-Friesian and A.J. C.C. . R. Herd Books. Complies catalogues.
H $\begin{gathered}\text { ENRY MOHME EUDORA, KAS. Manufac } \\ \text { turer }\end{gathered}$ and Condition Powd ers for all kinds of stock Package of 3 pounds, 81.00 , or one dozen 88.00
Correspondence solicited and promptly answ'd

TIMBER LINE HERD
Holstein - Friesian Cattle.
We have for sale forty head of Registered
and Grade Holstein Cattle-young and up to 6 Years old, male and Swine, age to 6 months, and 75 head for spring
and sumner trade. None but nrst-olass stook
sent out, and all stook guaranteed as repre
sented. Farm at Andover, Kas. Addross ua
at Winfleld, Kas., Cowley Co. Box B67.

## Correspondence.

## Mammoth Cluver.

Kansas Farmer:
I am requested to reply to the questions regarding mammoth clover in your issue of January 19. I have grown it to some extent and have obtained considerable information regarding it, from farmers in various parts
of the country; but there are some things of the country; but there are some things
connected with its growth in different secconnected with its growth in different sec an annual, but will hive as many years as the common red clover. I cut a field of it
in Michigan last year, for the third time, in Michigan last year, for the third time,
which stood as well on the ground as a fiold which stood as well on the ground as a fiold
of the common red by the side of it, which of the common red by the side of it, which
was cut for the second time. In the locality of your correspondent, northwestern Kansas, the common red clover seems to approach a biennial in character; even more than asual, the plant, weakened after the first crop is cut, being more readily winter-killed than in milder climates. I have no conlusive evidence that the mammoth variety where are som out longer than the other, but hope any one who has had experience with this point will communicate it to the Farmer nquiries are being received in regard to it.
The mammoth clover is sold by most of the large seed dealers and will be distributed this spring by the Department. Its making it more desirable for poor soil, both for fertilizins purpuee and for pantur both for fertizing purts it starts, however, later la spring, and does ned. It will not ripen seed after the first red. It will not ripen seed at
Dep't of Agriculture, Washington, D. C

## Oulture of Maugel Warzel.

Kansas Farmer:
The behavior of this root during the excessive drouth of last summer and fall so the attention of Kansas farmers to its culture. The soil should be in good tilth, well manured, and made fine to a good depth. Sow from beginning to middle of April, in rows two feet apart; for horse-culture three feet. Compact the seed after sowing, either
with the teet or roller. with the feet or roller
When the young plants have attained two
leaves they must be hoed on each side of leaves they must be hoed on each side of the row. When large enough, thin out to nine inches apart. Cultivate often, bearing in mind that the oftener the soil is stirred during the whole growing season, the larger
will be the product, and the better its quality will be the product, and the better its quality. The lower leaves during the growing season can be pulled off and feed to hogs, cows
and chickens. They devour them greedily and chickens. They devour them greed and thrive wonderfully upon them..
This is the surest crop on the farm, since drouth3. No insect attacks it. The leaves form alone an excellent food for every specles of domestic animal during four months in the year. No edible root has yet been brought into use which has an affinity with mangel wurzel in respect to its imperishable qualities. Tivested of its nutritive powers; the Swede turnip in April becomes shrivelled, and is almost refused by stock; the elled, and is almost refused by stock; the
petato, after this time, entirely sprouts petato, after this time, entirely sprouts
away all its vigor, dimminh hos in bulk, and dries up: but not so with this root under conslderation. It is not only ready for use in the autumn, the winter, and spring, but
may, if required, be continued throughout the summer, undiminished in weight and still abounding in saccharine juices.
Fed to mares with colt, brood sows and ewes, the results are most excellent. The
health of themselves and the thrift and health of themselves and the thrift and
vigor of their young essentially depend upon vigor of their young essentially depend upon
succulent food being fed at a season when succulent food being fed a
grass cannot be supplied.
In gathering the roots in October, care should be taken to cut off the leaves about an inch above the crown, as they will not keep well if the crown is cut off. Convey
them to the cellar and pack in long heaps, eight feet wide at the bottom; begin by forming the outside lines with the largest roots, tops outwards, filling the inside with in pits. The only advantage of storing
them in the cellar is that they can be fed more conveniently during the winter months. 1 prefer the Glant Red and Yellow Tankard to other varieties; the Imperial Sugar is a firmer and richer root, but it takes severe labor to dig the crop, while the two first bamed varieties are easily pulicd by hand. Last year 1 procured my seed from F. Barteldes, Lawrence. While every root crop was suffering from drouth and ins cts, this crop was vigorous and green, producins thirty tons to the acre, and Individual ront Kansas farmer I would say, give this crop a Kansas farmer I would say, give this crop
trial.
Jorn W. Robson.
Cheever, Dickinson Co., Kas.

## Apples for Market.

Kansas Farmer
In number of January 26 inquiry is made for best varieties of apple to plant 100 acres. As your correspondent does not give his location, it is difficult to give any kind of a direct answer to his question. If he will examine transactions of State Horticultural Society for 1883, he will fiud answers to his question from almost all the counties of the State. He does not state $w$ here be intends to market his product, and much depends on this in answering his question.
If I should plant an orchard of that exten here in the Cottonwood valley, the amoun of summer varieties would be governed by the home demand; the fall fruit on whether I intended to do much in evaporating or
drying. Of winter varieties I would use the drying. Of winter varieties I would use the
following in the order named: Ben Davis, following in the order named: Ben Davis,
WInesap, Missouri Pippin, Rome Beauty, WInesap, Missouri Pippin, Rome Beauty
Willow Twig, Jonathan, Newtown Pippin and Rawles' Janet. In other parts of the State it would probably be best to chang somo of these and add others, but a portion of them would be suitable in any part of the State.
If I may be bold enough to offer any suggestions to this unknown correspondent, $I$ would like to ask whether he has fully examined the magnitude of his undertaking, whether he has counted all the cost in this venture, and whether he has qualified himself by study and practice to make a success of it? I would by no means discourage any one In an undertaking of this kind, but the act that wrecks of orchards are abundant and the story that meets me almost daily from some one of money lost in this work, makes it almost a duty to warn any man who contemplates such an undertaking to be very certain that he has the ability and en durance to carry it through. The prize lies at the end of the race, and years of patience oil and waiting, often mixed with loss and disappointment, will be yours before you with patience, and never lose confidence, prosperity will surely be yours at last. Think for a moment how many men have ventured their all in sheep husbandry and come out nearly if not quite bankrup Some men have made money at it, but more Some men have made money at it, but more
than ten times their number have lost in the venture. The successful management of 100 acres in fruit demands more attention, skill study and care than the handing of a fleck of sheep, and the returns are much farther off. The expense of the land and first cost
of the trees is only the beginning of expenss. of the trees is only the beginning of expenss.
After it comes planting, tending, trimming After it comes planting, tending, trimming,
fighting borers, contending with rabbits, refighting borers, contending with rabbits, replacing the dead trees, and the same round of labor and expense year after year till the "time of the harvest" comes, and many who are weak or timid "faint by the way." If
after considering this fully you are still determined on the undertaking, go in to win and continue without wavering and you will prosper in the end.
Cedar Point, Chase Co., Kas.

## Ice House for Hay

Kansas Farmer
will answer Mr. Cook, of Wichita Build your ice house three feet larger each way than the block of ice desired, so as to
allow eighteen inches bet allow eighteen inches between the wall and ice to pack solid full of hay; break a lot of
rock over the boltom, throw in twelve inches rock over the boltom, throw in twelve inches
of hay on the rock, fill all crevices with fine ice and put one foot of hay on top. The se cret is to seclude it from the air.
To the inquirer of best assortment of apples, I would say plant half of all the different varieties of Ben Davis, as it brings the highest price in market.
Burr Oak, Jewell Co
H. E. Faidley

## About Sowing Oats.

Kansus Farmer:
In reply to the correspondent who wants hints on sowing oats, I will give you my plan after twenty years experience. First. Plow in the fall if possible, four or five inches deep, as I find that fall plowing always makes a heavier grain than spring plowing. Second. If your ground is too solid in the spring, tear up the surface with cultivator or grain drill as soon as ground is dry enough, and if your ground is clean enough to permit it, drill in with a common grain drill, sowing from one and a half to two bushels per acre. If sown broadcast, seed may be sown first and covered afterward with drill, cultivator or harrow, as will best do the work. Sow from two to two and a half bushels per acre. Be sure and cover well; that is, stir the surface till all the seed is covered. Third. Be sure and sow good either in the stack or bin, should not be sown, as the germ may have been spoiled. Sow as early as the ground will permit; the middle of February is not too soon, although I think there is is not too soon, al hough I think there is some risk of losing great to overbalance the chances of a crop of good heavy oats. I think March is the of good heavy oats. I think March is the
month in which to sow oats as a rule, but month in which to sow oats as a rule, but
it may be sown sooner or later with good remay be sown sooner or later with
sults if the season proves favorable.
If if the season proves favorable.
If this article will help some brother farmer to grow a crop of good oats, I shal be satisfied. Will be glad to see this subjec ventilated by readers of the Kansas Farm as my own.

A Sower.

## Notes from Russell Oounty.

## (ans

Our winter thus far has been rather singuad December was the coldest we have month seven years, and neary the whol colder than October is sometimes. It is now cold again-the first of February.
Stock as a whole is doing well. There re a few cases of sickness among las pring's calves, from eating too much corntalks, and a few cases of blackleg. Ther have been quite a number of cases of fata ickness among last spring's colts repoited and thus far no cause discovered. Sheep re doing well, and with the exception of ne case of dipping for scab, just before the cold storm in November, resulting in a los of about 700 in one
have been reported.

## have been reported.

The dry weather of the past month has been very hard on the winter grain, and a there is but a small acreage sown, there wil ecessarily be a short crop
Feed of all kinds is plenty, and more shel ter for stock than ever before known in this county.
We are going through a severe attack of railroad bond fever. It has already cost us $\$ 135,000$, and the fever is not broken yet We, as farmers, would like very much to have you to urge the Legislature to eradicate the disease from the State; use severe meas ures, if necessary, for it is ruining the interests of the farming community to build up the towns; for really the farvers and day laborers have all the taxes to pay, and wealth brought in by railroads.
And we would like to have another matter brought before the Legislature this winter that is of great importance to the rural population of the State, and that is the equal distribution of all county taxes for schoo purposes (except for building and furnish ties of the houses) according to the necessithis is, that there are so Oury reason for tricts from the towns, so many school disnumber of school childreu and a large number of school childreu and a small amount of taxable property, so that they are not able to have but a short terin, and cheap teachers for that. If the perpetuity of our
form of government depends on the educaform of government depends on the educa-
tion of the masses - and it certainly does tion of the masses - and it certainly does

- this matter must be attended to in the near future.

Russell Co. Farmer.

## Percheron Horses in Ohicago.

An exemplification of the fact that the quick and heavy draft teaming of Chicago is done nearly exclusively by grade Perche-
ron horses was shown during the late Illinois ron horses was shown during the late fllinois
State fair. Auxiliary to the great Percheron State fair. Auxiliary to the great Percheron
exhibit at the fair, a grand street and fair-
ground parade of Percheron business teams was organized. The procession, nearly two miles in extent, contained the two, four and six-horse turnouts of over one hundred and fifty of the most extensive wholesale merThe quality onufacturing houses of Chicago. The quality of these high-grade Percheron teams, as regards individual appearance, compared favorably with many of the purebloods on exhibition at the fair, which shows the adaptability of the Percheron cross on native stock. Grade Percheron horses are always in demand at high prices In all markets, and farmers can make no mistake in breeding them. Mr. M. W. Dunham, of Wayne, Illinois, the extensive importc $r$ and breeder of pure Percheron horses for breeding purposes, has on hand about 500 head registered with extended pedigrees in the Percheron stud-books of France and America.

## Gossip About Stock

On Tuesday, March 15, 1887, Wm. P. Higinbotham, of Manhattan, will hold his first annual sale of standard-ired trotting and other horses. This is a very important sale, and no doubt will be largely attended by breeders and farmers generally. See advertisement elsewhere.
Messrs. C. H. Holmes \& Co., Grinnell, Iowa, who breed Jersey cattle and Duroc-
Jersey swine, in remitting for their adverJersey swine, in remitting for their advertisement in the Farmer, say: "We find that we have for sale four high-bred Stoke Pogis bulls, 1 and 2 years old, a carload of high-grade Jersey dairy cows, and twentyfive choice Duroc-Jersey sows, safe in far row to our premium boars. Will be sold at a bargain if taken soon."
Richmond, Surrey, Jan. 22.-[Copyright, 1887, by James Gordon Bennett.]-The Galbraith Brothers, of Janesville, Wis., purchased here to-day the well-known Shire
stallion Enterprise of Cannock, admitted to be the Lundsise of Cannock, admitted to foaled. Enterprise won the Crk horse ever oaled. Enterprise won Champion cup at the ereat draft horse show at islington. He will be shipped in a few days and will be shown at Chicago and at other exhibitions. Since the purchase of the champion Clydesdale stalion Druid six years ago this is belleved by competent judges to be the finest draft horse ever secured by American purchasers. The price paid is not named, but is known to be a large one.

## Hogs for Texas.

Messrs. James H. Campbell \& Co., the widely known live stock merchants of Kansas City, have at last succeeded in inducing some of the merchants of the southwestern portion of Texas to purenase some of the fine hogs raised in Kanss-, Nissouri and Ne braska and shipped to the Kausas City mar ket for sale. To-day they will make a shipment of extra fine fat hogs to a firm of dealers in Laredo, Tex., which is something ike 1,800 miles from Kansas City. These ogs are purchased for their lard-producing qualities, and their product will be marketed in old Mexico
Messrs Campbell \& Co. deserve a great deal of praise for their enterprise and business sagacity in this matter. With fine facilities for handling live stock, they are always able to bring buyers and sellers together under favorable advantages for both. Those having cattle, hogs or sheep for sale will do well to put themselves in communication with this firm. They are at all times n correspondence with buyers from all parts of the East and South, and are, thereore, never at a loss to find a favorable market for all stock entrusted to their care With such enterprising firms as James $\mathbf{H}$. Campbell \& Co. in her midst and working in her interest, it is no wonder that our city has attained her present greatness. Let us have more such men. All the friends of Messrs James H. Campbell \& Co. will be proud to

## Che ßusy Bee.

Hints to Beginners.
In writing this, the twenty fourth paper to beginners, it would he more to my taste if I could commence with a concise and glowing account on monthly management, but, alas I I look out on our apiary and see hives covered with snow and the temperature most down to zero and the thought strikes me, what shall I say to the beginner? what shall I tell him to do? and then my mind runs on many things to say, but will they answer ? Shall I say, sweep the snow away! that would be, to say the least, timely advice. still I say, no, don't do that! it keeps them warm, let it bank up as it may on all sides; but the front, I say most decidedly, keep clear from snow. I hear lots of older heads than mine saying he is wrong! but, dear reader, I cannot be convinced that I am wrong up to the present time, so I say, keep the entrance clear of snow; bees must have ventilation, and as long as the entrance is clogged with snow they do not get it. I have heard of cases where the bees in a hive have wintered nicely where the hive was covered with snow all winter, but this is an exception and not by any means the rule. I also know of bees who have all died from the entrance being blocked with snow ; this I think the rule and not the exception. If bees are wintered on the summer stands, there is nothing can be done to holp them, unless, you have some stocks who went in without a full supply of winter stores; if this is the case, on the first pleasant day, raise the cover and place some cream candy on top of the frames directly over the cluster and under the cushions.
If you are wintering inside, be very careful to keep the room at an even temperature ; do not allow it to get too warm or too cold, and above all do not allow any dampness; bees can stand a long siege of cold weather, but they cannot stand dampness; it is sure to prove fatal. If you go in the rooms where they are, move very quietly so as not to disturb the bees, as perfect quiet is one of the principal features of successful indoor wintering.
I cannot close without again calling your attention to the numerous works on bee lore that are now in circulation and if you do not avail yourself of these long winter evenings, you are losing valuable time.; study them well; read everything that any of the writers has to say and then you will be competent to draw your own conclusions.-W. $B$. Treadwell, in Bee-Keeper's Magazine.

## The Grandest Sale of the Season.

 I will sell at my farm, one and one-half miles southeast of Neosho Rapids, Lyon county, Kas., on Thursday, February 24, 1887, and to continue until sold (sale to commence at 10 o'clock a. m. sharp), the following described property, to-wit:Stock-One yearling horse colt, 23-yearold mare colts, 2 match sorrel colts 4 years old, well broke, 3 brood mares, 1 large work mule, 1 work horse, about 100 head of stock hogs from 3 months to 1 year old. All the horses are English Coach and Norman graded.
Four thousand bushels of corn in crib, Four thousand of good bottom hay, 1 large stack of straw, about 1,000 ranks of dry stove wood and a lot of native and pine lum ber, 200 bushels of potatoes, 300 fence posts, and all my household goods and furniture. Cattle-Seventy cows, 35 2-year-old heif ers, 442 -year-old steers, 10 yearling steers, 18 yearling heifers, 2 bulls, 7 calves. All the cattle are thoroughbred Short-horns and best
grade. grade.
Implements-One Deering self-binder, Champion self-binder, 3 grain drills, 1 one horse drill, 8 riding cultiva'ors, 3 walking cultivators, 3 John Deere riding plows, 5 cultivators, 3 John Deere riding plows,
plows, 2 double-shovel plows, 2 corn plant ers and check rowers, 1 hay stacker, 1 stalk cutter, 2 mowers (Champion), 2 hay rakes, 3 harrows, 1 iron double harrow, 2 farm wag ons, 1 feed wagon, 1 new top buggy, 1 spring wagon, 1 corn sheller, 1 Big Giant corn crusher, 7 sets of double harness, 1 set of buggy harness, 2 iron and 2 wooden road crapers, 1 fanning mill, and all my house hold and kitchen goods, and other articles oo numerous to mention.
Terms of Sale-Nine months time with 10 per cent. Interest. Five per cent. off for bankable paper required.
Free lunch served. James O'Toole. L. F. PRuyn, Auctioneer.

## From Morton Oounty.

## Kansas Farmer

This is the extreme southwest county in our State. Take the A, T. \& S. F. to Syracuse, where well-equipped stages leave every morning for the future capital of Morton county. Richfield and Frisco are the towns contesting for county seat. Morton county is principally settled by Kansas people who have come further west to profit by past experience, to secure themselves a home and this time to hold on to it. Government land in this county is pretty well taken, but the actual settler with his family can easily secure a quarter section yet average old batch-who comes here, proves up his claim and leaves for parts unknown. One, great advantage this county has over other western counties is, water is found universally shallow, the average depth being only forty feet. All the rallrads in keing the best outlet to the great Southwest. Crops were good last year, although the acreage was small. Every one who planted acreage was small. Every one who planted
a crop has plenty of feed. Range cattie are a crop has plenty of feed. Range cattie are "old government" buffalo grass. F.T. B.

An English experimenter finds that, contrary to general opinion, a growth of ivy over a house renders the interior entirely
free from moisture.

A good stock of assorted merchandise and store building in a live town (value about $\$ 10.000$ ) to exchange for good land. Address

Box 13, Cheroree, Kas.
Mr. Geo. Pinney established the evergreen business in Sturgeon Bay, Wis., nearly twenty-five years ago. He now claims to have the only nursery of the kind in the
State, and to do a business in that line second to none in America. His advertisement appears in another column.
"Gardening is an employment for which no man is too high or too low." This is the quaint but apt quotation on the beautiful illuminated cover of Vaughan's New Seed Catalogue for
1887, It is one of the richest and most elegant of the season, avoiding entirely the "flashi-
ness" so common in many of these publica-
tions Adress with two stamps, J.C.Vaughan, tions. A
Chicago.

## ROYAI

NOW--THE TIME TO SPEOULATE. CTIVE FLUCTUATIONS in the Market offer
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will be forwa dor ree nn application. H. D. KYLE, Banker and Broker,
38 Bread and 34 New Sts., New York City


FLORAL GUIDE FOR 1887


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PAINIESS PREGNANOY AND PAR-
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## EMPORIA BUSINESS COLLEGE

PRESIDENT

## FOUR <br> 4 Grand Offers to every reader of Kansa FArmer. Read every word of this advertise- ment, as we know at least one of them is ex- actly what you want. We are sure you actly what you want. We are sure you have some old family picture of some dear and <br> GRAND

 have enlarged, and finished in a handsome portrait, or Imperials made of it. in Water Colors, placed in $8 x 10$ gold mat, (our regular price is 810 ), and send the 810 worth of
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## Che かome Cirele.

## One Perfect Day.

## I sald to Time, in its hưrried going,

Olisten, Ipray, tomet
Bid the swift hours stop in their ceaseless

Forth from thy hand the years have been fleetAnd filing my life so fast
That the tears and the smiles
the have been meet-
And blending through all my past.
When the star of a hope has arisen,
Too oft it has set in despair And my oul has beeen bounair in its prison
By trial and trouble and care.
So 1 ask thee 0 Time, from thy giving,
 Neither fame, neither wealth with its glitter,
Neither station nor rank do 1 seek, But a blessing that beeme to to me titter
For hearts that are human and weak.
Unto me, then, 0 Time, from thy treasure Give in thinn, Own gracaious way
Ghe gem that is wrought by Omnipotent meas Give me, o give me, one perfect day : When each thought shall be pure as the white Or nees in its holiest ray;
When each deed shall be full When each deed shall be full of the brig
When no grief nor no sadness can meet me,
Nor evena cloud on the way When earth's joy and earth's gladness all
mer
meugh the hours of one perfect day. And I heard then a votce that was thrilling

"The soul that would drink of unalloyed Thugh itbes, for the briefest time,
 "Time in its annals, through all of the ages, Has never rinsoribed ons one on titway page "Only through self and self-depriving
Can the path be cleared that may Can the path be cleared that may With the ald of Goo and earnestst st
Lead up to one most perfect day. - Ella Dare, in Inter Ocean.

## Woman's Sphere.

The era of superstition and idolatry is dead, and from its moulding dust a new era has been born-an era of pr gress, advancement and +qual rights. Let us welcome it
with gladness. with gladness.
Woman is no longer the slave of antiquity, nor is her sphere hounded by walls of the kitchen or the cottages of a century ago; but she is the equal of man, not only in the domestic circle, but in the business affairs of life. Her sphere has been rapidly widening until to-day she is recognized as a worthy compeititor of man in alinost every
calling where brain and tact arenecessary to calling where brain and tact are necessary to success. She is the quaen of the hame, mis-
tress of the school-room, and the pride of the counting-house. She is leaving the dingy workshop, where muscle and endurexcellence, and is entering the higher and more cultivated fields of action, where the elevating influence can be felt and appreciated. Actual experience has proved that she is more faithful to duty and can be trusted further than the average man, and that she further than the average man, and that she
actually excels him in the neatness and acactually excels him in
There is a great demand for young women who have a practical education to enter the wide field of business as clerks, book-keep ers and cashiers, and having the capacity to act as such. Why should they not?
Women, as a rule, have a keener sense of right and wrong than men, and would not allow partyism to prejudice them against the good qualities of any one. In voting she takes or would take the superiority of the candidates and the needs of the people into result of her good judgment casts her vote where mankind would derive the most needed benefits from it. A woman's finer intellect and clearer insight enable her to fit herself for any position or office our land success and becoming dignity. She is held equally responsible for violation of the laws of our State, and why should she not have an equal right in making them? And ech answers, Why?
Topeka, Kas.

## NOTABLE STONES.

The Emerald, a Stone of Wonderful Beanty.
[St. Louts Globe-Democrat.]
Up to quite recently it was thought that the emerald was unknown to the ancients, and when Pliny described stones of a soft green luster he was speaking of the malachite, but the researches of the antiquaries have settled this point among many others, and by the discovery of great numbers of emeralds in the tombs of the Greeks and Romans have proved beyond a doubt that he emerald was as well known, though perhaps not so abundant, as the diamond. Although the emerald was common enough specimens of engraved stones of ancient origin are very infrequent, the most reasonable explanation being that the stone was exempt from the hands of the lapidary on account of its wonderful beauty, which it was deemed sacrilege to mar. From almost the earliest periods of history stones of a green color have been used for ornamental purposes. The green stone hatchets of Brittany, the jade axe-heads of New Caledonia the serpentine implements of Africa, the Chinese ornaments, and the green jade and A mazon stones which the Mexicans were so fond of carving, served for examples in ancient times. The emerald was prized not only as an ornament, but valued for its supposed supernatural powers, as a talisman, and even as a medicine. It was aupposed to be helpful to the eyes, hence was worn as a seal to be looked at; it was thought to enseal to be looked ai; courage; itdrove away
dow the wearer with evil spirits, calmed the fears, then extremely common, of evil deities, and was thought to prevent the falling sickness of epilepsy. It is evident, however, that the gem was rare
among the Romans until the times of the among the Romans until the times of the
emperors, when it was largely imported from the East, and
THE BEST SPECIMENS OF THE GEM known are among those discovered in the graves and sarcophagi of the royal and princely personages of the latter empire. One of the finest collections of emeralds in the world is that composing two neeklaces found in the tomb of a Roman eu.press. One was of sixteen natural emeralds in crystal form, fastened together with gold, and the other of ten crystals set in double golden chains.
At present the emerald is a comparatively rare gem, but it was not always so. Aft
the discovery of America thousands of pre cious stones of this kind were sent from America to Europe; such, in fact, being their abundance that the value of these kems was brought down to a mere trifle. Those were the palmy days of Spain, when Those were the palmy days of Spain, when
the nobles were fairly covered with jewels whenever they appeared in public. The Spaniards who came with Cortez searched in vain for the mines whence the Mexicans obtained the wonderful emeralds and turquoises that were seen in such abundance but never found them, ner were they discovered until quite recently. Some of these mines are now known to be in New Mexico and the Navaio Indians wear turquoises of remarkable beauty as heirlooms, and will not for any consideration part with them. When Cortez returned home from America he brought with him five emeralds of wonderful size and beauty, and presented them to his bride. One was in the shape of a rose, another in the shape of a horn, the like litu a fish with golden eyes, the of cup set with pearls. The whole assortment was lost, together with two emerald vases WORTH 300,000 DUCATS
each, when Cortez was shipwrecked on the coast of Barbary in 1529. Various expeditions have been fitted out at different times or the purpose of recovering these gems he locality of the shipwreck on the coast of Barbary being perfectly well known, but been excited by the disappearance of numerous stones of great size and beauty which were presented by the conquerors of the new world to European potentates, but a compartively easy method of accounting for the disappearance has been overlooked. When a valuable stone has once been stolen from the treasury of a king the thief cannot dispose of it in its original form. for it is to easy of identification, so he breaks it up, and of it several gems of less weight and value are formed; these can be easily sold without fear of detection, the identity of the jewel is
completely lost, and this plan accounts in a satisfactory way for the complete disappearance of many valuable stones. In addition to this fact, there has for ages been a constant draft of precious stones toward the stant draft of precious stones and after they go none return.
The finest emerald in Enrope is sald to b long to the Emperor of Russia. It weighs but thirty carats, but is perfectly transparent and of wonderful brilliancy. The cabinets of the continent contain a large number of uacut stones brought from America by the Spaniards at the time of the conquest and kept in their original conditions as curi osities. A historic specimen of the jewel was a gem given by the Empress Irene to the Emperor Charlemagne. A hollow in contained a piece of the true cross and A STRONG GOLDEN CHAIN was buried with his body and when it grave was rifled it was taken along with the other gems found there. In 1811 it was presented to Napoleon by the citizens of Aix la Chapelle, and he wore it round his neck at the battles of Austerlitz and Wagram. He afterward gave it to Hortense, who wore it till her death, when it returned to a place among the crown jewels of France. The Sultan of Turkey has an emerald weighing 125 ounces, and ancther of 300 carats mounted in the handle of a dagger. The finest specimens of the natural emerald in the world are those presented to the shrine of Loretto by Don Pierre Daragon, formerly
viceroy in Peru. The specimens consist of viceroy in Peru. The specimens consist of mass of white limestone, crowned with crystals or emeralds more than an inch in diameter and of exquisite luster. The name Emerald Isle as applied to Ireland is be lieved to be from a fine emerald which Pope Adrian sent set in a ring to Henry II. as the sign of his investiture with the sovereignty of the island. The East Indian princes have many emeralds of large size, and some of them have been engraved with great care, but perhaps the best specimen of modern engraving on this stone is that executed by Carlo Costanzl during the last century. The work required two and a half years. Whe the French army was occupying Spain, it was under command of Marshal Junot, who had much more cupidity than reverence On one occasion, when he was visiting the athedral of Tolrdo, the oficials exhibite them was the Virgin's crown of gold and adorned with many excellent ge me, amons which was a large emerald which formed the very top of the crown. Looking at the gem for a time
he coolly twisted it off and put it in his pocket, "This ought to belong to me." The origin of the emerald is apposed to be vegetable. It is alway found in fossil formations and often among
fossil shells. What its coloring matter is has not yet been exactly determined, but it s believed to be organic. A very singula fact about the emerald is that when first ex racted from its native rock it is so soft tha it may be crushed to pieces, even ground to powder by the fingers. When this fact wa old it was ridiculed by those who though they knew better, but it is said to be placed beyond all doubt by the investigations and eports of scientific men who made specia fforts to determine the truth of the asser tion, and upon visiting the mines and examning the newly extracted stones they foun that softness was one of the most promineut qualities, and that the emeralds had to be aid aside a few days after their discovery until they had dried and hardencd. Emeralds of considerable beauty are found in several localities of the United States, p ticularly in North Carolina and Georgia.
The ancient imitations of the emerala were very numerous, and far superior to any that modern ingenuity has been able to produce. Many so-called monster emeralds have come down from ancient times, but the lapidaries of our own age have always found them to be imitations made of glass of such exceeding hardness as to almost defy detec tion. The Holy Grail of Ventee is of this kind. It was brought to Europe by the Crusaders in the twelfth century, and was be
lieved to be made of a single emerald, was jealously guarded by the republic of Venice for ages, and is even now held in great rev erence, though its value as a precious stone
has been destroyed by the discovery that it is of glass. The principal mines of emer alds in ancient times were in Scythia, Arabia and Africa. At present emeralds are
found in many parts of the world, the best coming from Russia and Siberia. The emerald has no fixed price like the diamond, and the fluctuations of the gem during the past 300 years form one of the most curious chapters in the history of precious stones. About the year 1600, according to the best authorities, emeralds, particularly from America, were so plentiful as not to be worth more than $\$ 5$ a carat. Since the beginning of the present century the emerald has from some cause become very rare, and its value ralds, without crack or flaw, to which this eralds, without crack or faw, to which this stone is exceedingly liable, are worth $\$ 200$ per carat, and the value increases in much
greater proportion in the case of larger greater
stones.

Though sages may pour out their wisdom's treasure
There is no st $\qquad$
Pride hath no other glass
To show itself, but pride; for supple knees
Feed arrogance, and are the proud man's fees. Shakespeare.

## A wife as sweet as he deserved,

 A steady-natured and wise-hearted one,Who toined with him, not holding work the end Of their joint life, but kept a marrin clear
For studious thought, for books, for all tha The mothed and the woman to be true. -Lucy Larcom.

Thou must thyself be true,
If thou the truth wouldst teach; If thou the truth wouldst teac It needs the overflow of heart
To give the lips full speech.
"Think truly, and thy thought
Shall the world's famine feed Speak truly, and each word of thine Shall be a fruitrul seed;
A great and thy life shall be
a creed!"

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The Houng dolks:
The Song of Steam.
Harness me down with your iron bands;
Be sure of your curb and rein;
For Itcorn the power of your puny hands
 For many a countless hour,
At he chid midsh boattof human might
And the pride of human power.
When I saw an army upon the land,
 Or waiting the way ward breeze
Whew
With tmarked the tope toill whith he he diantly borty reel When tarked the peasant farnty
With the toll whith he daill bore,
Or tuebly turned the tardy whed
When I measured the panting oourser's speed,
The flight of the carrier dove, $A_{s}^{\text {Th the eilight of the core the law a a king decreed, }}$

feel, were outstripp'd afar,
As these
hen should be bound to the ru When 1 should bo bound to the rush
Or chained to the flying car.
Ha! ha! ha! ha! they found me at last, And 1 rushed to my throne with a thunder blast,
And latghed in my fron strength;
othen he seaw a wondrous change one the earth a and the ocean wide,
Where now $m$ on Where now my fery armiean range,
Nor want for wind or tide.
Hurra! hurra! the waters o'er.
 The rivers the sun hath earliest blest,
Or those where his dreams deoline Tho giant streams of the queenly west,

The ocean pales where'er I sweepI hear my strength rejoice.;
And the moep
Cower, trembersino the the brininy deep
 The mind lags atter my going form.
The lightning is left behind.
In the darksome depths of the fathomless mine,
My tireless arm doth play:
Where the rocks never saw the sun decline, Where the rocks never saw the sun decline,
Or the dawn of the glorious day, I bring earth's glittering j jewels up
From the hidden caves below, From the hidden caves below,
And I make the fountain's granite cup
With a crystal gush o'ertlow.
I blow the bellows, I forge the steel,
In all the shops of trade; In ammer the ore and turn the wheel
Where my arms ot strength are made Where my arms of strength are made;
I manage the furnace, the mill, the mint;
I carry, I spin, I weave, I carry, I spin, I weave,
And all my doings i put into print
On every Saturday eve.
I've no muscle to weary, no breast to decay
No bones to be "latd on the shelf," No bones to be "latd on the shelf,"
Whaon I intend you may go and play,"
While I manage this world myself. But harness me down with your iron bands,
Be sure of your curb and rein: ButII soorn the power oo your puny hands,
As the tempest scorns the chain.

## HJw Shot and Bullets are Made.

 Few people who have not penetrated the mysteries of a shot tower know much about the manufacture of shot and bullets. The trip to one of these towers is not without itsreward. Mr. C.
Mr. C. C. Tracy is superintendent of one of New York's shot towers. Entering the factory the first thing seen is an enormous fly-wheel, neariy as large as that of the great Corliss engine, which is a part of the sifting and sorting machinery. Passing through, and leaving behind the rumble of the heavy engine, a patter like that of hail is heard. Looking down, one sees a tank of water twelve feet deep. Into this the shot continually rain.
"This is No. 6 shot," said Mr. Tracy. "It falls from the first landing, a distance of 140 feet. About three-fourths of it is found to be of the desired size, No. 6, as it comes from sizes, water. The resmall fraction is imperfect and must be melted again. Now, if you are ready for à hard climb, we will go upstairs. I have been here twenty one years. These stairs did not formerly bether years. These stairs did not formerly bother me at a
little."
At the first landing stood a man with leather gloves, leather apron and sponge at nose, before a vast cauldron filled with molten lead. He was using a large ladle, with which he replenished a cast-iron pot standing in a sort of box like a cistern top. Down through the bottom of this pot, perforated like a colander, the globules of lead
fell. fell.
"You know," said Mr. Tracy, "that the
discovery of this process came about all by discovery of this process came about all by
accident. Some rooters were repairing a accident. Some rooters were repairing a
church spire. One of the workmen happened to notice that the solder which fell
from his lofty perch was found in tiny globes upon the ground beneath the steeple. From this fact he argued that the roundness of
shape must be caused by the effect of the shape must be caused by the effect of the
long passage through the air, and the prinlong passage through the air, and the prin-
ciple of the shot tower was evolved. Till ciple of the shot tower was evolved.
that time all shot was moulded. Lead melts at about 590 deg. F. This lead, which the man is handling, has a temperature of something like 1,500 deg. You may imagine ic is pretty hot. This little kettle holus 7,000 pounds of lead, which all goes down in about two hours. We get pig lead from Omaha and Newark. Generally we carry 375 tons of shot in stock."
Mr. Tracy climbed to the second landing, 185 feet above the ground. There the writer was introduced to a furnace and cauldron for larger-sized shot. The view from the windows was superb. Twenty feet above is mounted to the second landing is quite ready to rest a few moments while the process of shot-making is explained. "Lead shot," said Mr. Tracy, "though sometimes made of lead alone, is almost always formed of an alloy of arsenic and lead. The arsenic is introduced in the form of arsenious acid or the sulphuret. The object of the addition of the arsenic is to render the hard, brittle the arsenic is to render the hard, brittle and of the proper consistence to take the globular foym. Owing to the rapid decomposition of the arsenic, it is treated by itself in the bottom of the melting kettle. A cover is placed over the substance, and its stem,
which rises up through the kettle, is fastened which rises up through the kettle, is fastened down. The lead is then added above the out of the liquid mass, which instantly becomes permeated wi.h the arsenic beneath. The alloy thus produced contains forty-five pounds of arsenic to the ton of lead, aud is the proportion of 1 per cent, to the pure lead, and thus the shot alloy, containing a very small percentage of arsenic, is pro duced. The 'temper pots' hold about a ton of metal each.
"A tter the shot have reached the bottom of the well they are at once lifted out by au eltvator and thrown upon an inclined dryiug table, over which they slide, falling finaliy table, over which they slide, falling finsliy
into a wire-gauze rotatiug cylinder. Theu they are rulled and ground together, aud in they are ruled and ground together, and in
this way the minute burrs upou them are removed. From the cy linder another elevalor lifts the shot upon a screeniug table. This consists of a series of planes arr.anged at gradually decreasing helghts. Between each two there is an luterval. The shot, being started at the head of the highes plane, will, if perfect, roll frem one plane to another, jumping over the intermediate spaces. If imperfect, however, it tumbles and goes back to the melting kettle. The
good shot, after passing this ordeal, reach the separators.
"It should be explained that there are usually several tables, each buing devoted to a different size of shot. The little leaden globes are next elevated to the top cylinder a series, arranged on an incline. They rated sheet in form, and covered with perfo a sieve for a particular size of shot, retaining that and allowing all smaller sizes to escape. The shifting goes on until each cylinder has picked out the particular class of shot to which it is adapted. The sizes of of shot to which it is adapted. The sizes of
shot are standard. The smallest is known as 'dust,' and then comes 'No. 12,' which is as 'dust,' and then comes 'No. 12,' which is
.05 inch in diameter, 2336 shot going to the ounce. The sizes then increase by one-hundredths of an inch up to twenty-three hundredths, of which there are twenty-four shot to the ounce. The shot being assorted, polishing alone remains to be done. This is accomplished by placing the shot, together with plumbago, in a box, which is rapidly
rotated. The glossy black smoothness is rotated. The glossy black smoothness is thus imparted. The shot are then weighed, bagged and ready for sale.
"Are not the fumes of the lead and arsenic very injurious to the workm en?" Mr. Tracy was asked.
"Well, there is no denying that some men are affected by the fumes engendered in the process of manufacture. Some system ican not stand it. One of our employes showed signs of poisoning. Hue grew feeble and
gave up his place. But, after a vacation of seven months, he returned to us again, and remained nine years in perfect health. It is difficult to lay down a general rule. Our
mel are all healthy. Painters, corroders mel are all healthy. Painters, corroders
and smelters are much more exposed to nox ious fumes than are those encaged in mak ing shot."-Mail and Express.

## INJUSTIOE OORREOTED.

Oonvincing Verifioation of Widecast Publio Statements.
the readers of the Kansas Farmer.
In common with many publishers and editors, we have been accustomed to look upon certain statements which we have seen in our columns as merely adroit advertising. Consequently we feel justified in taking privaterty of printing a few points from a our largest patrons, as a sort of confession of faith to our readors. We quote:
"We have convinced ourselves that by telling what we know to be true, we have produced at last a permanent conviction in
the public mind. Seven years ago we stated the public mind. Seven years ago we stated what the national disease of this country Three years azo we stated that a marked check had been given it.
"The statistics of one of the largest life insuraice companies of this country shows that in 1883 and 1884, the mortality from kidney disorders did not increase over the previous years; other companies stated the same thing. It is not presumptuous for us to claim credit for checkinq these ravages.
"Seven years ago we stated that the condition of the kidneys was the key to the condition of health; within the past five ypars all careful life insurance companies have conceded the truth of this statement, for, whereas, ten years ago, chemica analysis to determine the condition of the kldneys was not required, to-day millions of dollars in risks are refused, because chemical examination discovers unsus pected diseases of the kidneys.
"Seven years ago we stated that the ravages of Bright's Disease were insignifi cant compared with other unsuspected dis orders of the kidneys of many misleading names; that ninety-three per cent. of human alments are attributable to deranged kid neys, which fills the blood with uric acid, o kidney poison, which causes these many fatal diseases.
"The uric acid, or kidney poison, is the real cause of the majority of cases of
paralysis, apoplexy, heart disease, convu! lons, pneumonia consumption, a d in sanity; over half the victims of consumptiol are first the victims of diseased kidneys.

When the recent death of an honored ex-offlelal of the Uuited States was an nounced, his physician said that althoug was not the cause of death. He was not frank enough to admit that the apoplexy which overtook him in his bed, was the fatal effect of the kidney poison in the blood, which had eaten away the substance of the arteries and brain; nor was Logan' physician nonest enough to state that his fatal rheumatism was caused by kidney acid
in the blood. in the blood.
"If the doctors would state in official reports the original cause of death, the people of this country would be alarmed, yea,
nearly panic stricken, at the fearful mornearly panic stricken, at the fearful mor tality from kidney disorders."
The writers of the above letter give these facts to the public simply to justify the claims that they have made, that "if the kidneys and liver are kept in a healthy con dition by the use of Warner's safe cure, which hundreds of thousands have proved to be a specific, when all other remedies
failed, and that has received the endorsefailed, and that has received the endorse ment of the highest medical talent in ife would be prolonged and the happines of the people preserved. It is successfu with so many different diseases because it and it alone, cau remove the uric acid from the blood through the kidneys."
Our readers are familiar with the preparation named.
Commendation thereof has often appeared n our columns.
We believe it to be one of the best, if not the best ever manufactured. We know the proprietors are men of character and in luence.
We are certain they have awakened wide-spread interest in the public mindreonerning the importance of the kidneys. W believe with them that they are the key to health, and that for their restoration from disease and maintenance in health, there nothing equal to this great remedy.
The proprietors say they "do not glory in
this universal prevalence of disease, but having started out with the purpose of spreading the merits of Warner's safe cure before the world, because it cured our own sentor proprietor, who was given up by doctors as incurable, we feel it our duty to state the facts and leave the public to its $\mathbf{o w n}$ inferences. We point to our claims, and to their public and universal verification with pride, and if the public does not believe what we say, we tell them to ask their friends and neighbors what they think about our preparations." As stated above, we most cordially com mend the perusal of this correspondence by our readers, believing that in so doing we are fulfilling a simple public obligation.

Everybody Likes It.
Any person sending fifteen cents to the Advertising Department of the Wabash Route, St. Louis, Mo., will recelve by return mall a handsome, well-bound book, entitled, "Social Am"isements," containing all the latest and most novel Parlor Games, Charades, etc. The best publication ever issued for anyone giving an evening party.

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Prof. Blake says, "February will be the coldest month of the winter." He says it will be "more steadily cold than was January.
Mr. Joseph Merk, horticulturist and landscape gardener, of Deming, N. M., writes us a very friendly letter in commendation of the KANSAS FARMER, for which he has our thanks.
Prof. Snow's weather report of January says: "The fifth consecutive cold January, of the ifth consecutive cold winter. The total run of the wind surpassed that of any preceding January, although the maximum velocity has often been exceeded. The rainfall was nearly normal, and the cloudiness and humidity were considerably below the average.

## THE LEGISLATURE.

An act was passed last week and approved by the Governor to provide for the registration of voters at county seat election

A bill to repeal all laws authorizing municipalities to vote aid to railroads was defeated in the House; a bill to reduce the amount that may be voted from $\$ 4,000$ a mile to $\$ 2,000$, or $\$ 2,500$ a mile seems to meet with pretty general approval. The theory of bond-voting is wrong; but the people have adopted the practice, and without a constitutional prohibition, there is no way to restrain it except to limit the amount, A bill to remove unfaithful officers summarily is recommended for passage in the House.

A bill to provide for the improvement of county roads is favorably reported by the Senate. The substantive part of the bill is that whenever a majority of the resident landholders within onehalf mile on either side along the line of any regularly laid out road within the terminal points mentioned in the petition, shall petition the Board of County Commissioners of any county in this State for the improvement of any road as located or any part thereof, it is made the duty of such County Commissioners to cause the same to be improved as provided in the body of the
bill. The parties having charge of and bill. The parties having charge of and
conducting the work are appointed by the County Board, and consist of three persons, reesident landowners of the county, to be known as road commisin conformity with profile and specifications filed with the County Clerk.
One bill, already favorably acted on by the Senate prohibits the encumbering of certain exempt property without consent of both husband and wife.
more power to the State Board of Railroad Commissioners, so as to enable them to enforce their recommendations A petition asks for the removal of $S$. T. Walker, Superintendent of the
Olathe Deaf and Dumb Asylum, for alleged cruelty to the inmates.
A good deal of discussion has been aroused on the bill proposing a uni formity of text books for the schools of the State and for the printing of the books by the State.
Irrigation is receiving a good deal of attention. Several bills have been introduced relating to that subject, one of them to prevent cutting banks of ditches maliciously.
One bill is entitled an act to authorize city and township treasuters of school districts to register all warrants or orders drawn upon them and not paid for want of funds, and providing for the want of funds, and providing for
payment of the same in the order of registration.
The temperance bill was made special order for yesterday afternoon.
It is intended by one bill to make intoxication a misdemeanor, punishable by imprisonment in the county jail from one day to thirty days.
A labor bill proposes to make eight hours a day's work in the absence of special contract otherwise.

To protect pensioners, a bill was introduced providing that money which may have been received by any debtor as pensioner of the United States within the three months next preceding the sssuing of an execution or attachment or garnishment process, cannot be applied to the payment of the debts of such pensioner when it is made to appear by the afllavit of the debtor or otherwise that such pension money is necessary for the maintenance of a
family supported . wholly or in part by said pension money.
To protect mechanics and common laborers on public buildings, one bill proposes means.
The number of bills introduced up to Monday evening was 241 in the Senate and 465 in the House. The time of the session is now a little more than half passed, and while the work is far advanced, it will be impossible to dispose of $m$ re than one-fourth of the business
now on hand. And the important apnow on hand. And the important ap-
propriation bills are not yet introduced.

## Free Passes on Railroads.

The President approved the interState commerce bill, last Friday, ald the discussion has begun concerning the provisions prohibiting the issuance and use of what are commonly called
free passes. The law was enacted to regulate inter-State commerce, that which is carried on "among the several States," and has no relation to local transportation within any of the several bill which bear upon the pass business apply to those passengers that are carried from one State to another over one line on the same trip. But the dis cussion is developing an interest on the part of nuany persons, some of whom
are connected with railroads and some are not. The query with both classes is whether the provisions of the new law will or may bs used as inducement to do away
the States.

It is time that State Legislatures put a stop to free transportation of persons who are able to pay their way, excepting employes. The number of free passes issued by railroads is very large. Were the exact figures given, they would astonish the people. Every strong railway company in the country has a division in its official business devoted exclusively to this particular matter. A record is kept of every pass
issued, and it has been stated many times by prominent railroad men that the business in that line is not only large but is growing larger every year, and that it has become one of the serious problems of railroad manage ment how to reduce its dimen it entirely. Charles Francis Adams, President of the Union Pacific railroad company, made a startling statement on the subject before a Congressional committee. Having forgotten what it was, we do not pretend to state what he said, but it impressed itself upon the minds of thoughtful people.
It has gone so far that a great many people apply through friends for passes, just as persons do who want some office or place of employment in the public service. Only an hour or two agoa case came under the observation of the writer of this. A lady called at the office, and in the course of a brief con and a riend had travelled severa thousand miles within a few weeks or months. on free passes, and yet their husbands were not railroad men, nor were the ladies in railroad employ But they have friends who have influence with the companies.
The pass business is grossly unjust to the people and ought to be wholly abolished. There is no good reason why three-fourths of the trayeling people should pay the fare of the remaining one-fourth. Let every passenger pay his own fare, and then there will be gain enough in receipts to justify a reduction of the cost of traveling. What ever is now lost by reason of free transportation ought to be saved to th people who do pay. By abolishing the pass sysiem and reducing the rates from three cents a mile to two cents a mile, the resulting increase of travel would soon pay the companies more would soon pay then received before the reduction. than they received before the reduction.
Where one hundred persons travel on a Where one hundred persons the hundred and twenty-five would travel at a twocent rate, and that, with the additions made by requiring all passengers to pay equally, would more than make up for all losses by reason of reducing rates.
Our Legislature ought to require of the State Board of Railroad Commissioners that they investigate this subject thoroughly and report the facts found to the Governor to be transmitted to the Legislature.

Kansas Farmer and Weekly Oapital. A good many inquiries reach us in regard to our clubbing rates with the Weekly Capital and Farmers' Journal particularly as to whether it makes any difference where the subscribers receive their papers. Our terms, unless qualified, are general always, and it matters not where the paper is to be sent, nor whether subscribers to both papers want them sent to different places When $\$ 1.50$ is forwarded for the KANsas FArmer and Weekly Capital, the papers will be mailed to the same address or to different addresses, just as the sub-criber or subscribers desire One person may want the FARMER, a neighbor may want the Capital; by joining, one of them sends the money for both, and the papers will be mailed as requested.

## Great Special Offer !

Two important weekly papers for the price of one paper. The Kansas Farmer, price $\$ 1.50$ a year, and the Topeka Weekly Capital, price $\$ 1.00$. Both papers for $\$ 1.50$.
offer holds good only until Mareh 1,1857 .
A lot of horses at San Francisco became frightened a few days ago and jumped into the bay. One of them landed on a beach
five miles away, after swimming for twelve hours.

Farmer Funston on the Oattle Disease Bill.
Through courtesy of Hon. E. H. Funston, member of Congress from the Second Congressional district, we have a copy of the Congressional Record for January 29, containing his remarks on the pleuro-pneumonia bill. We makea few extracts-
I do not ferl like letting this bill go to a vote without saying a word. in its favor.
While it may not be perfect in every respect, it certainly is the result of much thought and deep interest in a matter which
so vitally concerns the material prosperity of our land, and which affects not only the owners of live stock but a much larker class who consume the meat and dairy products
of this country. It is not legislation in favor of this country. it is not spegisiation in favor
of any speciass of persons, but it is
legi-lation in which every man, woman, and legilation in which every man, woman, and
child are interested, and none more than the child are interested, and none more than the poor man wh
broad land. It is a question of food for the millions.
Shall it continue to be within the reach of
all, the poor as well as the zich. or shall we all, the poor as well as the zich, or shall we
permit a disease most fatal in its character, and which has for centuries haffled the
efforts of the most skillful veterinary sur efforts of the most skillful veterinary sur-
geons, to plant itself firmly in our land, destroving our magnificent herds of cattle
breaking up the animal industry of the breaking up the animal industry of the
farm, and in consequence of which advancing the prices of the products of the
verd and the dairy beyond the reach of thos who cannot indulge in luxuries.
It is a mere business question which pre-
sents itself. Shall we meet it in a businesg sents itself. Shall we meet it in a business-
like manner, or shall we dally with it until it has mpread beyond our reach or where it will require millions of money to eradicate T, whereas to-day it requires bit thousands?
The gentleman from Mississippi (Mr. Mor The gentleman from Mississippt (Mr. Mor an), my colleague on the committpe. ohjects
to the bill because the ameunt, $\$ 250,000$ is insufficient, in his judgment, to carry out its purposes. My oniy answer to him is: then
let, us increase it sufficiently at least to de
stroy all affected animals, which would stroy all affected animals, which would
materially check the spffad of the entagion, materially check the sprrad of eradicate it altozether; at least it
if not eration
would hold it in check until the meeting of would hold it in check until the meeting of
another Congress, when further legislation allother Congress, when further under additional light on the
can be har und subject. What we want now is thorrugh organization, with power from the government to do something. As matters have
been, the government agents have been in many cases refused access to the infected many cases refused access "whatever is done
herds. and are told that
must be under the laws of the State, and as must be under the laws of the State, and as
the State has no law on the subject, nothing can bo done."

*     *         * The only thing left for us to do now is to eradicate it in the quickest way
possible, which is by the death of the al imal infected. The three-fourths compensation at their sound value may seem to be too
much when considered strictly in the light much when considered strictly in the igent of obligation, but when we reflect that many
infected animals have recovered; also that a iess compensation than three-fourths would
lene be an indncement to the owner to conceal
the existence of the disease in his herd, it is the existence of the disease in his hich, it is thought to be wise the public good, which is to pay a sufficient amount to secure its expos
mals.
In
mals.
Inis we have the example of European
governments that have struggled with governments that have struggled with the
dise.se for many years. France allows one halt value before the disease, if they are found to be affected, and three-fourths if
only contrminated. England one-half of only contnminated. England one-hair of Austria the mean value of the animal be fore the disease. Belgium the same. Holland one half value for those diseased and fuo value for those suspected; and Swe
thirds of value before the disease.
The interestat stake is too great to permit
dallying with this matter. It would dallying with this matter. It would be
trifling with the wealth and prosperity of trifling with the wealth and prosperity
the country. Already the existence pleurn-pneumonia has cansed us the loss of millions of dollars by shutting us out of forpign markets. England has in consequence
of it forced us $t$. slaughter our fat cattle in of it forced us t. slaughter our fat cattie in
their ports of entry immediately upon landtheir ports of entry immediately upon land-
ing, thus giving no opportunity to recover from the bruises and shrinkage of a sea voyage, and also forcing us into market
wherever we may land and for whatever we wherever we may land and for whatever we
can get at the time. The trade with England an cet at the time. The trade with England Pattening, which was fast becoming one of the most profitable exports of this country
has been destroyed, and millions of dollars has been destroyed, and milonns of dhrough that channel has been turned in other directions.
Onr pxports of cattle have dropper from
$\$ 17,000,000$ in 1884 to $\$ 10,000,000$ in 1888 , and
turing tha $\$ 17,000,000$ in 1884 to $\$ 10,000,000$ in 1886 , and
during tha same period our exnorts of fresh during tha same period our exporto of fresh
heaf have dropped from $\$ 11.000,000$ to
$\$ 9.000000$, and chpese from $\$ 11000000$ to
$\$ 7.000000$ and buter from $\$ 3.000 .000$ to $\$ 7,000000$, and butter from $\$ 3,000.000$ to
$\$ 2,000,000$, making a falling off in the two yrars mentioned of $\$ 14,000000$; and yet we hesitate about giving $\$ 250,000$ to change that
condition of things, to say nothing of the preservation of the cattle interesta of

There is a fansily in Glascock county, Georgia, consisting of a man, his wife and three children, whose aggregate weight is less than two hundred pounds.

## Inquiries Answered.

Insurance.-The name of the Superintendent of Insurance is Richard B. Morris. Potato Cropping.- I wain to plant two
or three acres of potatops this spring, but or thre acres of potatops this spring, but
not having the money to buy what seed
want, nothavinish on pay for them by glving a
want, 1 wish to
share of the crop. What share should I give? -One bushel in tweuty would be about right.
Ensilage.-I am interested in ensilage.
C. uid you procure that little book of Mr. C.uld you, orocure
Karskadon's for me ?
-The price of the book is 50 cents. Address T. K. Karskadin, Keyser, W. Va. It
is much the most complete work on the subject that we know of.
Tringe.-Is there any place in K K nass
where uing it mat had ht, and wherie cen it he had? The The ilitige
wanted to putt in whlls
 dug?
-We made linquiry on the subj et two
 peka was then brunght froun S. L Luik. But If our cerrespondent will writ- to the M yor
of Fort Scott, he may leam semething to his Interest. Threre was ome work .if this
tind done there a few years ago. We never knew anything better than wood-curbing for walling as the digging procerds.
Onton Culture - Can you give us some-
thing on oulturn culture, time of p'aiting. thing on ouliun culture, timus of p'anting.
mode of coltivation, kins. promabe stild,
and whether there is reasonable certainty and whether there is reas
of a crop in Kansas, etc.?

- In last week's. FArmer, our correspondent will find something on the subject. Onions do well in Kansas, the vield is anywhere from 200 to 1,000 buchels per acre, an average, probably, of 300 to 40 . We would begin with, as an experiment. The Early R d d. Wrthersfield Large Red, Rrd Globe, Ginbe Danvers, are all good varieties. The El Paso is a Mexican variety, very large,
and if it can be grown successfully here, it will be profitable. Several responsible seed dealers advertise in the Kansas Farmer. Send for their catalogue, mentioning this paper.
Weight of cattle.-Can you inform me through the KANsAs FARMFR a correct rule
for ascertaining the weight of live cattle?
-We suppose our correspondent means some way other than weighing. "Measure measure the length from the fore part of the mhoulder blade along the back to the bone at the tail, in a vertical line with the buttocks. Now multiply the girt, in feet, by itself, that product by the length, in feet, and this last product multiplied by ten and divided by three will give the dressed weight of the quarters." The quarters of a beef weigh a little more than one half as much as the living animal. As an example, say the girt is 6 feet and the length is 5 feet; 6 multiplied by Itself gives 36 ; that multiplied by 5 gives 180 , which multiplied by 10 gives 1,800 , and that divided by 3 gives 600 , which, accerding to the rule, is a little more than half the live weight. The animal would weigh very nearly 1,200 pounds. But there is no absolutely
ing.
Fruit Trees.-As 1 intend to plant quite Fruir Trees.-As
a number of fruit trees next spring, what
kind would you rrcommend as best suited kind would you recommend as best suited
for our climate of the following: Apples,
peach, cherries, plums, quince, pears, aprifor our climate of the following: Apples,
peach, cherries, plums, quince, pears, apri-
cots, and erab, apples? which kind of each cots, and erab apples? Which is the best
is the best for market? which
keeper? and which is most winter proof? -Our correspondent dates his inquiry at Topeka, hence wo understand he wants information that will apply to Shawnee county and the region round about. The State part of the State-Summer apples, Early Harvest, Carolina Red June, Red As trachan, Cooper's Early White, Dutchess of Oldenburg; fall apples, Maiden's Blush,
Rambo, Lowell, Fameuse, Jonathan; winRambo, Lowell, Fameuse, Jonathan; win-
ter applea, Winesap, Ben Davis, Missouif Pippin, Rawle's Genet, Jonathan, Willow Twig.-Peaches, early, Amsden's June. Alexander, Hale's Ealy; medium, Stump the World, Crawford's E Erly, Old Mix $\circ n$ Free, George the Fourth, Large Early York;
late, Heath Cling, Crawford's Late, Smocis, Ward's Late Free.-Pears, Parly, Bartlitt, Osband's Summer, Clapp's Favorite, Flem-
i h Beanty; medium, B ir lott. S $\because \cdot \mathrm{k}^{-1}$,
 Flemish Beauty; late, Vicar of Wenker
Lawrence, Winter Nelis, Duch-sse dt
Augouleme,-Plums, Wild Goose, Miner

Emigrant.-Cherry, early, Early Richmond, May Duke: late, English Morello, Commo Morello; late, Richmond. As to quinces and apricots, take counsel of your nursery-
Puncturing for Colic.-1 read in the Veterinary column of this week's issue what I believe to be a slight error. The question is asked by some person as to the practicability of puncturing in a case o flatulency of the horse, where the punctur should be made? Here is where I tak question of where should the puncture be made? The writer says to operate there is puncture the colon, and advises the left side or flank as being the place usually selected. or flank as being the place usually selected
As the colon is the organ sought to be punctured, I select for that operation the ight side or flank in the horse and the left id of th. ox. There is just the difference, nd in ny opinion a material diffrence, beallse the transeverse colan in inflation is
I ways $m$ pe prominent in the right than in Ivay $m$ re prominent in the right than in
h. left flawk of the horse, and vice versa in left tlank of the horse, and vice versa in
ax. It is unsclence to be indifferent as ax. It is unsclence to be indifferent as
where the puncture is made. If too near where the puncture is made. If too near
spine the depth of muscles is too great o in-ure surcess, and if too low in the flank, whare the colon settles to its proper place in he nbdomen, the puncture will be too low, with tendencies to leak. Whenever it be-com-s necessary to puncture, and that is when you know that your horse will die froms suffocation. make the puncture ase be tween the two last fa'se ribs on a paralle line from point to hip. A. W. Hoover. Burlingame, Kas.

## Money and Mortgages.

## Kansas Farmer

There are two ideas brought out in last week's paper that I would like to comment on a little. First. Are not the people ready to demand of the government to issue money directly to the people at a low rate of inter est? Why the farmers as a class do not ag tate for this can only be explained by their habit of following their party leaders. Any man, if he thinks at all, can see that those who have special privileges, like nationa banks, will want to keep them, and will abor against any other system. All capitalists find it to their interest to perpetuate a ystem by which they can get the fruits of labor without laboring themselves. Ciapital runs the political machine, therefore there is absolutely no remedy for us, except by our own action. No need of waiting for the old parties to free us from the injustice of monopoly. Monopolies have been fastened on to us on account of our ignorance, indifference and the habit of voting for party intead of principles. We have to study and think more and take a more active part in politics. Let any man ask himself the quespolitics. Let any man ask himself the quesion, what harm there could be to the gen eral the fare if the hover it under proper rea all the money and loan it under proper reg ulation to those that can saisfactory security. Then try to realize the benefit it would bring to farmers and all classes ex that are loaning money. Then if oept those that are loaning money. Then it
you have concluded that there should be a change (as you will if you think about it) work and vote with that object in view, a
in time the reform will be accomplished.
The other point is in regard to mortgages You truly say if mortgages are not paid the farmers will become renters. A reform in the money policy would help some, there fore every debtor should work for that. But we know not when that will be accom plished. Therefore, every farmer who has a mortgage on his farm should think of becoming a renter. Suppose your mortgage is $\$ 1,000$ on a 160 acres- $\$ 80$ to $\$ 100$ is the inAccording to my experience and bad the onerage value of crops per acre are bout $\$ 9$ to $\$ 10$. Renters pay from one-third o one-half for the use of land in this State 160 acres, if all in use, the rent would be
$\$ 480$ to $\$ 800$. If only half in cultivation and $\$ 480$ to, $\$ 800$. If only half in cultivation and
ome benefit from the prairie, from $\$ 300$ to 8500 . So that the interest would be from $\$ 200$ to $\$ 700$ less than rent. Now why can't a man do as well when he owns the farm as he will be obliged to do after he is reduced in a renter? The difference between paying ing will soon pay a mortgage and rent courage soon pay a mortgage. So, take
farm like if you had rented it; work hard and with judgment; adapt your expenses to your income, and keep the idea ever in mind hat you are going to pay that mortgage, and Leonardville in M. Senn.

## Hedges Along the Publio Highway.

## Kansas Färmer

Notwithstanding former failures, I was glad to see that an act requiring farmers to keep hedges cut down along public high ways had been introduced in the House. believe it to be for the interest of the farmer as well as the traveling public that hedges be kept down to a reasonable height.
I wish to note the objections of one of your correspondents (P. P. Elder): First.That if such an annual trimming is for the benefit of the public, the farmer compelled Now, as private property cani ot be taken for public use withaut compensation, presumably the farmer has been paid for his land to be used for the purpose of public ravel, then it logically follows that he has no riuht to raise treus or bedges on the line of the toway of the highway, which, by their natura growth, whil ocupy a larke parto the road way, to the undoubted detriment of public travel. The farmer has sold to thi county or State, as the case may be, a strip of land through his farm (forty feet or more in width), for the purpose of public travel, and he hasn't the shadow of a right to occupy that ground, or any part of it, with anything which will impede or obstruct public travel. to the bill is holding the snow back from the road, and affording a comfortable shade in hot days to camp or ride under, for the relief of campers and fastidious gentlemen.
Now, it is my observation that a hedge or other fence does not "hold the snow back;" that is, the snow, when driftink, lodges on the leewara, and not onst of the fence. To ilustrate: A road each east and west, and has a high hedge on each side; whichever way the wind blows, whether north or south, a drifting snow will lodge in the road. I have a practical example before met. The road runs east and west past my house. My neighbor on the north has a hedge which is fourteen years old and has never been trimmed. Several times in years past I have had to open my fence and let the public travel through my orchard, the road being impassable-drifted full of snow. Now for the "comfortable shade in hot days!" "Land of Goshen!" "Shades of the great departed!" Whoever has traveled in a hot day between two high suffocat ing hedges, under a blazing sun, with flies swarming from the hedges upon the horses, will know how to appreciate this. Then to think of the æsthetic part of the business -fastidious gentlemen camping under its grateful shade. Plenty of campers in this part in warm weather, plenty of lofty hedges, but haven't seen any one select them to camp under. I think a man might
 cet a start a may help a man to rise a iftlo sown on the ground where a man sits down, for
One most serious objection to these over grown hedges along public highways is tha they endanger human life at railway cross ings, by hiding the approaching train. Ther have been several narrow escapes in this county and one serious rccident, a lady
being seriously hurt, and the carriage debeing seriously hurt, and the carriage de molished by the engine, which was could not on account of a hign wing fifteen-foo hedge. In the interest of the sacredness of human life, cut down the hedges at least in the vicinity of railr ad crossings.
From an æsthetic point of view, there is no pleasanter prospect than a grass-grown roadside. Every farmer knows this nothing but noxious weeds can grow; the whole landscape is shut off from the travelers' view-nothing to be seen but a narrow strip of blue sky overhead, and the monotonous thorny prospect on either side. 1sola tion is complete, with a sense of relief he and pronounces an anatiema upon the legislaturt which refuses or neglects to down the hedge."
Oskaloosa, Kas.

## Book Notices.

Co-operation.-Following the excellent monograph on "Co-operation in a Western City," by Albart Shaw, Ph. D., the American Economic Association announces the publication of a history of "Co-operation in New England," by Edward W. Bemis, Ph. D., to be issued February 5. Dr. Bemis has made a careful study of co-operation, and this work will be a practical guide for co-operators, and contain many facts to interest the students of the labor problem. Price, 75 cents. Copies may be had of Dr. Richard T. Ely, Secretary, Johns Hopkins University, Baltimore, Md.
Gardining for Profit.-Peter Henderson has revised and enlarged his work of the title above given and brought its matter down to date of publication-1887. There is no need to recommend what Peter Henderson says about gardening, for he is an old, experienced and successful gardener, who knows what he is talking about. This book will be useful to every intelligent; gardener, because it covers the entire range of work connected with gardening. We have no hesitancy in recommending it as in every way worthy public confidence. Price $\$ 2$. Pub lished by O. Judd Co., 751 Broadway, N. Y Cauliflowers.-With plain, practical and explicit directions in minute detail, for the cultivation and twanagement of this crop, from the sowing of the seed to tise marketing of the product. It will tell you which are the reliable varieties; how to pre pare the soil; how to fertilize and what to use; how to sow the seed and grow the plants; how to protect them from insects; how to plant and cultivate; how to manage the crop; how to market the crop; how to cook them; how to pickle them. By Francis Brill, practical horticulturist. Price by Brin, practio paid, 20 cents. To dealers, 100 copies $\$ 10$. Eight coples by mail, $\$ 1$.
The People's Atlas of the World.We have examined somewhat carefully this volume and do not hésitate to give it our hearty endorsepent. The scope of the work is tersely set forth in the anthor's prefatory note. He says: "The simple purpose of this work is to present the greatest number of facts and the largest amount of practical information ever given in any atlas, the whole so classified, condensed, and illustrated, and brought out in such portable size and form as to furnish its possessor with the most convenient, instructive, and helpful handbook of its class ever published." This ex cellent work has been prepared by Rev. W. H. De Prey, D. D., the well-known editor of the "People's Cyclopedia of Universa Knowledge" The amount and variety of Knowledge." The amount and variety of information contained in this volume will
surprise any one who will give it even surprise any one who will give it even asual glance. Though called an atlas, and hough well supplied with maps, yet this eature of the work fro the whole field ble parto It draws froming whole fel of human knowledge periche to things ical and vislble. It not conere the terrestrial, but in its compreitilise cludes a briet history of celestial discoverle and gives a summary of the results of mod orn scientife investigation ast Its graphic illustrations are both apt and numerous. A glance at the chart illustrating the public debt of the United States from 1790 to 1884 will give a clearer and more correct knowledge of the subject illustrated than could be obtained by prolonged and painstaking study of the numerical statements which this chart so aptly represents. The form of the volume and the handsome style of binding in rich halt morocco, make it equally desirable for the library or the center table. The work is issued by Phil lips \& Hunt, New York, and the Morning Side Publishing Co., of Chicago, Ill., are the sole agents for the publishers for all the territory lying west of Ohio and east of the Rocky mountains. Any of our reader wishing forther information regarding this wishing fork lay Morning Side Publishing Co., Cbicago, IIl.

The blindness of the understanding is as much to be pitied as the blindness of the yes; and it is neither laughable nor criminal for a man to lose his way in either case.

General C. M. Clay, who has handled a great many sheep, says it won't do to use the old-fashi"ned shepherd's crook onem is

## §orticulture.

Practical Treatment for the Prevention of Mildew.
What follows is taken from a French treat-
ment of the subject, by G. Foex, and published in a receut report of the Department D.

PODECHARD POWDER.
Good results have likewise been obtained in the Cote-d'Or by the use of a powder made in the following manner A lime milk is prepared out of, lime, kilograms ; water, 10 kilograms; and a solution of sulphate of copper out of sulphate of copper, 10 kilograms; boiling water, 20 kilograms.
The two liquids are allowed to cool to 25 deg. C. ( 77 deg . F.), mixed, and then poured upon 100 kilograms of quicklime, which is allowed to slake. This powder probably acts like the copper mixture of Gironde.
This remedy which has given positive proofs of its efficacy in Burgundy, has not been tried in the South, and it is consequently impossible to know yet whether it will prove effective in the climate of that region. Nevertheless, on account of the ease of application, which is sreater than in case of the copper mixture of Gironde, it deserves to be tried with care.
sulphated stakes.
Stakes sulphated with a view to their preseryation, have served to completely protect certain vineyards in the Cute d Or. The small number of branches of each vine tied in a bundle of three or four upon the support, and the frequent rains which wash the latter and carry the dissolved sulphate of copper to the leaves which are very near, explain this phenomenon. In order to increase the efficacy of this arrangement, it tas been proposed to bind the branches with straw bauds dipped in the sulphate of copper. The employment of this means, besides, being quite expensive, has given no result in the vineyards of the Mediterranean reglou, probably because of the
mer.

THE AUDOYNAUD PROCESS.
Mr. Audoynaud has proposed to apply the copper to the leaves in the form
of "blue water" or ammoniacal sulof "blue water" or ammoniacal sulthe substance in a very tinely-divided state, and consequently to greatly reduce the amount required per hectare The liquor is prepared in the following manner:
In a stoneware or glass jar place 2 kilograms of sulphate of copper upon which pour two or three liters of warm water, and stir with a stick or glass rod to hasten the solution. When the liquid is cold add about one liter of commercial ammonia ( 22 deg . Beaume), then, in a suitable cask, mix enough water with this liquid to make from 100 to 150 liters, which is the amount that should be put on one hectare. The Riley spraying machíne, with a receiver like that constructed by Mr. Vermorel, of Villefranche (Rhone), appears to be the most convenient instrument for distributing this liquid. Although this process has not yet been carried out practically, it is probable that it will give satisfactory results if, like the
copper mixture of Gironde, it is applied as a preventive.
choice of material.
Sulphate of copper is a salt found in commerce in the form of large translucent crystals of an azure blue. When pure it contains
Oxide of copper
Sulphurio acid.
water of crystailization
The copper being the acting agent upon Peronospora, it is important to as certain the purity of the sulphate pur
chased. Now, we frequently tind in commerce double sulphates of copper and iron, or of copper and zinc, which are sold as sulphate of copper. Mr. Millardet gives the following method of determining the purity of this salt:
By pouring some drops of lime water or milk of lime into a solution of sulphate of copper ( 1 to 10) we obtain a sky-blue precipitate from pure sulphate of copper; a rusty blue from the double sulphate of copper and iron; and a dirty white from the double sulphate of copper and zinc.
The lime which has given the best results so far is quicklime.
PPARATUS AND RECEPTACLES FOR HOLDING TAE COMPOUNDS.
The sulphate of copper attacks iron and zinc, and ought, therefore, to be kept in vessels of copper, lead, wood, or earthenware.
Although the processes which have ust been described deserve to be tried in the South (except the sulphated stakes), the "copper mixture of Gironde," is the only one that can be employed immediately on a large scale with certainty of success.
he copper mixture of gironde. Descriptron of the process.-A process which was discovered recently in Gironde gave in 1885 the most satisfactory results. It consists in spraying the vines, during their growth, with a mix ture of sulphate of copper and lime This is prepared in the following manner: On the one hand, 6 to 8 kilograms of sulphate of copper are dissolved in 100 liters of cold water; on the other hand, 15 kilograms of quicklime ar laked in 30 liters of water. When the sulphate of copper is completely dis solved, and the lime has formed $h$ mogeneous mixture, the latter is poured into the copper solution, the mixture being stirred meanwhile. W thus obtain, if the sulphate of copper i pure, a clear blue precipitate, which settles to the bottom of the vessel in which the operation is carried od. Thi substance should be stirred up at the time of using, in order to put it in suspension in the water.
Action of the remedy.-The action of the remedy, which we have just described, is due to the copper which it contains. The presence of this metal even in a very minutequantity, in drops of dew or rain on the upper surface of the leaves, prevents the germination of the spores of the conidia which may have been brought there by the wind. Thus forestalled, the disease cannot establish itself upon the leaves.
Mode of application of the remedy.The copper mixture should be distributed by sprinkling in little drops on the upper surface of the leaves. Two or three spots thus produced suffice to completely preserve a leaf, and they beome sufficiently adherent and coherent as soon as they have dried, to remain antil the leaves fall.
The sprinklings were made in Gironde, in 1885, with a simple broom of heath, which was plunged into a bucket or watering-pot containing the mixture. This plan of operating gives satisfaction, so far as the distribution of the substance is concerned, but it has the inconvenience of being somewhat slow and it requires much hand labor; therefore apparatuses have been devised which permit more rapid operation at a ess expense of muscle. The one which gave the best results at the trial held in Montpellier, in February. 1886, was that of Mr. Delord, 9 rue St.-Gilles, Nimes, Time when the treatment should be made. -The salts of copper having the effect, as we have seen, of preventing the disease from becoming established, their use should be preventive. The vines should, therefore, be treated before May

15, at which date the Peronospora has sometimes māde its appearanco in certain places in the department of Herault. In operating at so early a date only a small portion of the leaves can be reached, the greater number developing between this period and the 1st of June; in practice, therefore, it is better probably to sacrifice, if need be, some of the first leaves, and make the treatment only when the vegetation has reached a sufficient development, say, in Herault from the 1st to the 15th of June.
Probably its action will not be limited to the destruction of Peronospora, but will tend to the destruction of several other fungus diseases of the vine.

The horticultural editor of the Germanown Telegraph says it is inis odinion that the time to prune fruit trees for fruit and a of June and the 20th of July.

The Oause of Oonsumption. Scrofula, manifesting itself in blotches, pimples, eruptions, salt-rheum, and other blem-
ishes of the skin, is but too apt by and by infect the delicate tissues of the lungs also and result in ulecration, thus ending in con-
aumption. Dr. Pierce's ${ }^{\text {NGold }}$ Gold Medical Dis sumption. Dr. Pierce's "Golden Medical Dis-
covery" will meet and vanquish the enemy in covery will meet and vanquish the enemy in
its stronghold ot the blood and cast it out of
the system. All druggists.解 system. All druggists.
The Rural New Yorker has found tha pleces cut from the seed end of the potatu yielded at the rato of 18896 per acre. Pieces from stem end with similar conditions of soil and cultivation, yielded at the rate of 165.20. Seed end pieces appear above the the time of maturity.

## A Flat Contradiction

Some one has told you that your catarrh is incurable. It is not so. Dr. Sage's Catarrh it always does its work thoroughly. We have yet to hear or a case in which it did. not accome
plish a cure when faithfully used. Catarrh is plishat eure when faithfully used. Catarri
a lisease which it is dangerous to neglect.
certain remeay is at your command. Av yourse for of it before the complaint
more serious form. All dragkists.

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Sliruis
Slade and Ornamenal Grape Vines, Smanl Fruits, el Sy'send for Price List.
ROBERT MLLIKEN, EMPoma, Kas.

J. L. STRANAHAN,

BER Commission House 194 Kinzie stre
(TRAWBERRIES! - $\ddagger$ - RASPBERRIE my new five 2-cent stamps for prices of plants for 1887 . It is a complete
guild eto smail fruit culture, with illustrat
ans of oid

BERRY ROXESS, Fruit and Vegetable Packages of allkinds. Send C. COLBY \& Cor Co., Benton Harbor, Mich.

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Columbur, Kas.


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THE YORK NURSERY CO.
FORT SCOTT, KANSAS,
For Catalogue and Prices.

## BURPEES <br> matin

 Exivin SedS


## Che Øoultry IJard.

## Tarkeys on the Farm.

Kansas Farmer
There are a great many people who think it does not pay to raise turkeys on the farm, and give as their reasons that they are hard to raise, and they are vicious with chickens, and bother the garden, especially the cabbage, tramp through grain fields, and that besides all that, the market for them is so low all that, the market for them
Having had thirteen or fourteen years experience in raising turkeys I feel competent to answer all such objections raised against them. That they are tender when quite young I admit, but that is so easily overcome by confining the hen with her brood in a yard, or even lariating her as a cow or horse on grass, for a few days, feeding the young ones on clabber cheese mixed well with pepper, they will get along very well. except in cold, wet or bad stormy weather. Our plan is to give the first clutch of eggs from each turkey hen to a chicken hen, as they are better mothers in early spring than turkey hens are, and by that way we get a double crop; and besides all that, the weather is usually drier and warmer by the time the second hatch comes off.
consequently less loss to the young ones from following their mother through the grass in search of insects.
As to their bothering chickens, I think that depends a good deal on the variety kept. We have suffered but very little inconvenience on that line ourselves, and with the exception of last year, have never been troubled with them in the garden, and they have always had free access thereto. A neighbor lady told me only a few days ago that hers and a ntighbor's flock ran at will in her cabbage this year and did not disturb them in the least.
As to the turkey market being low, (which is all true at present). I want to say there is nothing raised on the farm that is as profitable as turkeys, if you have the right kind; for from the time they are fairly started till the middle or last of November, they forage their own living, and that consists very largely in insects that are oftimes more damaging to the growing crop than all they do in tramping through the grain fields.
I said, if you have the right kinds very much depends upon that, for I have tried both the right and the wrong kinds. Till a few years ago we kept the black or common turkeys, when I was induced to try the "Mammoth" Bronze turkeys; so I sent and got a pair of them late in the spring, costing something over $\$ 3-\mathrm{a}$ big price, but have never regretted it, for if I had got them before my black hen's first clutch had fertilized would have got all back in extra weight that year ; and last year from a yard I had let out to raise from on the halves (of increase only) the lady to sell all of her share would realize from $\$ 23$ to $\$ 25$ from three hens, and at only 7 cents per pound dressed. Another neighbor lady sold, several days before Thanksgiving last Noyembêr, upwards of $\$ 30$ worth of turkeys. So, when we remember it really costs less to raise a turkey than a chicken, even at the present low prices, it does pay to raise turkeys on the farm. Young Bronze gobblers of last year's hatch now will weigh from eighteen to twenty-five pounds, and I have had them at that age to weigh thirty-two pounds, and forty pounds at past. one year old, in ordinary living condition. W. H. Biddle.

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 will save the dyspeptic from manydays of misery
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 canse the food to assimilate and nour-ish the booly, give keen appetite, and Develop Flesh $\underset{\text { and solid muscle. Elegantly }}{\text { coated. Price, } 25 \mathrm{cts} \text {. perbox. }}$ SOLD EVERYWHERE.


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 BLEG. I won \$100 PEPCCIAL PREMIUM at Nebraska state Fair for bost exhibit in the
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 SOUTH ST, LOUU|SNURSERIESWe off.r for the coming trade season the largest and most complete assortment of Nursery Stock discription, Ornamental Trees, Roses, shrubs, etc.
nar We make the growing of Std. and Dear a specialty; and invite naw We make the growing of Std. and Dwf. Pear a specialty; and invite
inspection from Nurserymen and Dealers. ©a Wholesale price-list on application, consult your interest by getting our prices before buying. Inducements and good accommo
dation for agents and dealers.
S. M. BAYLES, Prop., St. Louis, Mo.


THEM MARKRTS.
By Telegraph, February 7, 1887.
LIVE STOCK MAREETS
New York.
BEEVES-Recelpts 2,700. Market a trifle firmer. Common to prime steers $420 \mathrm{a5} 30$,
choice to extra do. 540 a 50 , bulls and dry cows 70a3 70.
SHEEP-Recoipts 800. Market dull. Sheep 420 a5 50, lambs $500 a 675$.
HOGS-Receipts 14,800. Quoted steady at 5 50a5 60 .
St. Louls.

CATTLE-Receipts 604. Market strong on all kinds. Cholce heavy native steers 4 (0a5 00, fair to good shipping steers choice butchers steers 310ad 20, fair to good feeders 285 a 365 , fair to good stockers 2152300 , common to choice Texans 185 a 355.
HOGS-Receipts 2,525. Market active and $5 \mathrm{Fa10c}$ higher on all grades. Choice heavy and butchers selections 5 30a5 45, fair to good packing $510 a 525$, medium to fancy Yorkers 495 a 510 , common to good pigs $425 a 480$.
SHEEP-Receipts 210. Market firm. Common to fair 260 as 7 , medium to prime 380 a 80. Chicago.
The Drovers' Journal reports
CATTLE-Receipts 6,000 , shipments 2,000 . Market strong and active. Shipping steers, 950 to $1,500 \mathrm{lbs}$., 350 a 500 ; stockers and feeders 250 a 390 , Texas siteers $4121 / 2$.
HOGS-Receipts 14,000 , shipments 10,000 . Market was strong and higher. Rough and mixed 480 a5 30 , paoking and shipping 500 a 540 , light SHEEP - Receipts 3 ,
SHEEP - Receipts 3,000 , shipments 1,000 a400, Texans 250 a 400 , lambs 425 F 540.

Kansas City.
CATTLLE-Receipts since Saturday 656. The offerings were light, especially for shipping grades, and market strong with higeept for feeding steers, which were firm. Sales ranged 365 for feeding steers to 425 for shippers.
HOGS-Receipts since Saturday 4,044 . Market strong, with values of choice heavy 10 C higher and light 5 c higher. Extrome range o sales 4 80a5 25 , bulk at $495 a 515$.
SHEEP-Receipts since Saturday 94. Market firm. Good to choice $325 a 375$, common to medium 225300.

## PRODUOE MARKETS.

New York.
WHEAT-Shade lower. No.
-
CORNATor, $941 / 2 \mathrm{c}$ free on board.
No. 2, 48a48 1 elevator
st. Louis.
WHEAT-Active, but weak and lower. No red, eash, $80 \%$ asi $1 / 4 \mathrm{c}$.
CORN-Dull, but fl
CORN-Dull, but firm and higher. No. ixed, cash, 3ヶ2abs
OATS-Dull and easy. No. 2 mixed, cash, 28 c bid.

MAR-Firmer at $51 / 1 / 2521 / 20$
BARLEY-Unchanged.
Chicago.
The wheat trade was dull and dragging. Cash quotations were as follows 780
CORN-No. 2, $351 / 2 \mathrm{a} 361 / 6 \mathrm{c}$. OATS-No. 2, 2514.
RARLEY-No. 2, 51c.
Kansas City.
WHEAT - Receipts at regular elevators since last report 6,730 bus., withdrawals none, of Trade to-day 299,797 bus. There was a steady but quiet market to-day on 'change, $n$ ales having been made.
CORN-Receipts at regulay elevators since last report 10,927 bus., and withdrawals 2,190 bus., leaving stock in store as reported to the Boara of Trade to-day 383,534 bus. The market was weak on 'change to-day. No. 2 was nominal except for March,
OATS-No. 2 cash, $261 / 2 \mathrm{c}$ bid special, no offer ings.
RYE-No bids nor offerings.
HAY - Receipts 5 cars. Market firm Fancy small b
OIL-CAKE-Per 100 lbs , sacked, 125; 2100 per ton, free on board cars; car lots, 2000 per ton. SEEDS-We quote: Flaxseed, 85a90c per bushel on a basis of pure. Castor beans. 150. BU'TTER-Receipts large; dull and weak. We quote: Creamery, fancy, 2 zo : good, 23 c ; hoice roll, $18 \mathrm{al4c}$
CHEESE-We quote: Full cream $131 / 2 \mathrm{c}$, part 8kim flats 7 asc, Young America $131 / 2 \mathrm{c}$, Kansas
6a7c. EGGS-Rec
18e for fresh.
Pe for fresh.
POTATOES
Nebraska and Iowa 55060 c , Michigan 60 a 65 c

## Greeleys 75as0.

150 , red 75 al 00
BROOMCORN-We quote: Short brush $41 / 2 \mathrm{c}$, green hurl 50 , self-working $41 / 4 a 41 / 2$, long coarse 31/4, crooked $1 / 2 \mathrm{a} 2 / 20$
PROVIONS-F usually 1 chithers are for cured meats (canvassed or plain): Hams 11e cured meats (canvassed or plain): Hams llic,
breakfast bacon 9, dried beef 9 c . Dry salt meats: clear rib sides 6770 , long clear sides 660,
shoulders 550 short clear sides 690 . Smoked shoulders 550 , short clear sides 6 .o. sides
meats: clear rib sides 730 , long clear sided
shoulders 650 , short clear sides 750 . Barrei meats: mess pork 1300 . Choice tierce lard
mer

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in past year $\$ 5,000, \$ 10,000, \$ 15,000, \$ 20,000$, in past year $\$ 5,000, \$ 10,000, \$$ red to make better rates than ever. Send description of property and amount required, and apply to headquarters for large or small leans. When applying for loans give numbers of land number of acres under plow. Address A. D. RobBiNs \& Co.

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Diseases of the Brain and Nervous System Diseases of Fibrous and M.uscular System.

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134 other 81 sets per mail, postpaid.
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avenue or
all purts ot . . . . . . . Dummy puss the house to W. F. UROUTT, Froprietor.


## THE STRAY LIST．

HOW TO POBT A STRAY． Thi Fege，Fines and Penaltiks for Not Post






发领荡
 Nase persans，except citizens and householders can
If an antmai liable to be taken up，shall

 advertise the same by posting three writen nentiaes in in
asmanv placen in the townthip，kiving a correct de
scription of such atray If such stray 18 not proven up at the explration of
ten days，the tater－uphall ko before any Justice of the

 The Justice of the Peace shall within twenty days
from the time enich stray was taken up（tendays after
posting，make out and return to the County Clerk，a
certfied copy
 It anail be advertised in the K ANSAS FARMER in three
succesalve numberg mor than ten dillars，

 shall be delivered to the owner．on the order of the
Juastice，and mpon the payment of all charges and coats．
If the owner of pate
 At the end of a year afrer a siray is taken up，the
Justice of the Peace bhall 1 ssue A Bummons to three
householders to appear and ape

 Th they shatil also determine the cost of keeping，and
the benefits the taker－up may have had ane report the In all casea where the tille vests in the taker－up，ha

 subject to a fne of twenty dollars． FOR WEEK ENDING JAN．26， 1887. Woodson county－I．M．Jewett clerk． STEER－Taken up in Torunto tp，November 27,1886 ，


 one brown mule with small white spot on left hit，
lame in both fore legs；one dun mule，blind in both
eges，age unknown；valued at $\$ 30$ ．

Iyon county－Roland Lakin，olerk． STEER－Taken up by Adrian Jardinier，in Elmen－
daro tp，








 Sumner county－Wm．H．Berry，clerk．



 Wabaunsee county－－G．W．Frenoh，olerk．






on belly，no other marks or brands visible；valued
at \＆1．
sTEER－By same，one roan 2 －year old ateer，no
marks or



 Ford county－s，Gallagher，Jr，olerk． Cow－Trken $7 p$ by Lyman Lock man，in Durge tp
December 23,1880 ope retc cow， 3 years old，branded $W$
on ripht hip：valued at $\$ 10$ ．


 Phillips county－S．J．Hartman，clerk．


Rooks county－．．J．T．Smith，clerk COW－Taken up by Isaac Edson．In，Greenfeld tp．
one ronan cow，white in frce．crop off each ear，white on

Lincoln county－H．H．Gilpin，clerk． HORSK－TTaken up by Isaac Horton in Loga：tp
Decerber 30.1886, ne bay horse．15 hands high，both
hind feet white，marks not known valued at

Nemaha county－R．\＆Robbins，clerk． HEIFER－Taken up by P．J．Emmert，In Home tp．
（P．Centralia，January
heif 1887 one 1 ．year－old roan
 red 2 －year－old sterer wth some whtte eppots ；valued a
s20．

Elk county－．J 8 Johnson，clerk．
 Shawnee rounty－－D．N．Burdge，olerk．
 Brown county－G．I．Prewitt，clerk．

 in forehead． 7 years old，no marks or brands vieible
valued at

Labette county．－W．W．Cook，olerk，
 Meade county－－W．H．Young，clerk． COW－Taken up bo Joseph Totheroh，in CHmarron
tp．．（P．Byen
und under－slope in left ear ；valued at tivin
COW－BV \＆ame one one red－spott d cow，hole in right
ear；valued at $\$ 15$ ar；valued at sis．
Co W－BV same．
Edwards county ：valued at $\$ 25$. ．crop in le COLT－Taken up by Jacob．Sallickler，in Trelerk．
ton th．，Jan


Fllis county－－Henry Oshant，clerk．
 When taken up，about 7 years old，no brancs ；valued
at $\& 45$ ．
Jackson county－－Ed．E．Birkett，clerk． HEIFER－Taken up by M．Brown，In Washington
tp．（P．．Rosiville）January 3，，887，one red yearling
heifer with nome whita sints，brand gupposed to be on right hif；；valued at $\$ 15$ ． FOR WEEK ENDING FEB，2， 1887 Wabaunsee county－G．W．French，olerk．
 Osage county－R．H．McClair，clerk．

 tp．January 20,1887 ，on dark red
bit under lett ear；valued at $\$ 15$ ．
Stafford oounty－H．M．Woolley，clerk．
 hear vatued at
HEIFER－BV Rame，one medlum－alized
belfer，white with small red spots on boily，rear－old neck， white espot in forehead，no marks or brands；valued
at $\$ 12$ ．
Pottawstcmie countv－I．W．Zimmerman，clk． Cow－Taken up by James Cunneen，In St．Marys
tp，Noven，bon 17，1886，one red cow 8 years old，both back＇：valued at $\$ 25$ ．

Riley oounty－0．C．Barner，olerk． HEIFER－Taken up by F．H．Plerce，of Whld Cat
one Rmall helfor，bibout 18 months old，all red except
gome whte on belly Anderson county－A．D．McFadden，elerk．
 Lyon county－Roland Lakin，clerk STEER－Taken up by Mra Sarah A．Van fassell．in
Americua tp．，one red and while spotted yearlfng steer valned at sto．
HEIFER－By

Bourbon county－E．J．Chapin，olert STEER－Taken up by Jos．O．Hale，of Freedom tp．
one yearling teer，prod except white on belly，no mark Davis county－P．V．Trovinger，clerk． HORSE－Taken up by Nathan Brown，in 8 moky
Hilitp．January 15.1887 ，one bay horse，about 8 year old，branded on right ahoulder，white hind feet， 1
handa hikh；valued at $\$ 35$ ． FOR WEEK ENDING FEB，9， 1887 Ellis county－Henry Oshant，clerk． STEER－Taken up by G．W．Gillona，In BIg Creek
p．，December 1 ， 1886, one redd and white stece，about 2 years old，dim brand on left hip；valued at s12．
sTEELD，by same．one black and whitte steer．
years old，branded C．N．on left hip；valued at 812 ．
Wabaunsee county－G．W．French，clerk． COW－Taken up by Augusta Mulr，In Mill Creek tp．
（P．O．Halffax），January 24 ，1887，one red cow，a little

White in forehead and under belly，no marks or branc
supposed to be about 6 years old；valued at $\$ 14$ ．
Linn county－Thos．D．Cottle，clerk．
STEER－Taken up by WIllam B．Mellnda，in Potosi
tp．，December 20， 1886 one small red and whte year－
ting steer，white face and white belly；valued at



Chase county－J．J．Massey，clerk． STEER－Taken up by L．C．Rogler，in Bazaar tp
November 29， 1886, one red steer，2 years old，brande
on right hip with four stral on right hip with four straight bars，under．b．t out
right ear，brand on left hip similar to H ，white o STEER Taken up by H．Underwood，in Bazaar tp November 29，1886，one brindle and whtte spoteted stee．
a years old，Indescribable brand on left hip；valued
at

Miami county－H．A．Floyd，clerk． STEER－Taken up by Samuel Anderson，in Stanton
tp．Jnnuary
or brands vistilie； 1887 ，one red red yearlit at 815 ． or Jonuary－ 1887 ，one red yed
or brands visibie；valued at si5．
Johnson county－Henry V．Chase，clerk． HORSE－Taken up by Frank Davis，five miles north
of Olathe，one light bay horse． 10 or 12 years old，blind
in right eye spayin on left hind leg，two shoes o

Cowley county－L．J．Smock，clerk．
MARE－Taken up by P．B．Andrews，of Arkansa
City，December 29，1886，one black mare，13 hands
higli，blaze in tace， marks，Indist finct brand hind left shoulder，small shee
bell oni：yalued at bell on；valued at siz
HORSE－By same，
valued at 810. ．
HORSE－By same，one bay horse， $151 / 2$ hands high

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## Che Beterinarian.

[The paragraphs in this department are
gathered from our exchanges.-ED. FARMER.l.
Dropsical Swelling.- I haty in good health that has a swelling of the udder; commenced in the teats two weeks ago; udder is now as large as half of common-sized wooden pail ; no milk or water in teate; mare will not have colt till April. Will veterinarian please give remedy. [The swelling is of a dropsical nature owing to a sluggish circulation, and is caused by in work, and dissolve a teaspoonful of nitrate of potash night and morning in drinking water for four or five days.]

Swelling on the Withers. - I would like to have your veterinary tell me what ails my mare. The lirst I noticed she could not get ber head down to drink. That has bothered her about four months. She acts as if her neck was sore on top, but it is not. It seems to be swollen lately on the wither a little. Please tell me what to do for her.「Make a close examination and find out whether there is actually a swelling accompanied by pain at the region of the withers. If so, there is probably a fistula forming. It is important to know if such is the case, so we would be glad if you would write a little more fully and definitely on the matter.]
Discharging at the Nose.-I wish to ask your veterinarian a few questions about my horse, which has run from both nostrils of a light color. The horse coughs a little at times. The horse is in good flesh. I wish to know if it is glanders. Other borses that have worked with him are not sick. Will you please tell me what it is, and how to treat it. There is no vel-rinarian in our vicinity. You would do mea favor by ansvering these questions. [We the single fact that the horse discharges from the nostrils. If we did so we would be assuming a very grave responsibility Horses suffering from simple catarrhal conditions of the nasal passages present symptoms so closely allied to glanders that it requires a personal examination by a competent veterinary surgeon to account we would advise you to consult such a person.]
Disease of the Liver in a Mare. -My elderly mare appears in good condition and is sprightly; except an occaslonal stumble or "letting down" behind, she travels well for two or three miles. She seldom goes up a hill without stopping; she whisks her tail and stamps with her left hind foot, or lifts it clean off the ground, or leans over so as to favor it. Then she starts as fast as she can walk, and, maybe, stops inside of a rod. If not allowed to stop, she will limp for some distance after getting on level ground. She She has been affected in this way for three or four months, and from the first she has not been put to hard work; but she is getting worse. After going two or three miles she now stops every few rods what should be done for her? [The symptoms indicate disease of the liver which may be due to too heavy feeding
and want of sufficient daily exercise, or to some unknown cause. Givg six drachms of Barbadoes aloes and follow this by injections of two or three quarts of wilk-warm water every three or four hours until the horse is purged. Twice daily give one-half drachm of colchicum, two drachms of niter, and one-half ounce of powdered gentian. Do not overfeed; the diet should be laxative,
$\qquad$


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```

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nion Pacific

## CLYDESDALE <br> -AND-

Emglish Shire Horses.

and the bowels should be kept loose preferably by feeding roots, mashes or aloes if necessary. Allow free access to soft and good drinking water. Moderate daily exercise is very essential; and beneficial.]

A question likely soon to come to the ore is the practicability of tunnelling be ween England and Ireland. At one

A compost heap is rather unsightly, bu placed in the back yard or behind the barn would be thrown on this heap. All will help make a valuable pile of manure, which can e utilized in the spring.

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Dr. Plerce's "Pleasant Purgative Pellets" re scarcely larger than mustard seeds, but hey have no equal as a cathartic. In all disorders of the liver, stomach and bowels they
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Make up and turn over the compost heaps.
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Prof. A. S. Heath, in referring to the sensitiveness of the cow, says that in some instances fright has dried up the milk secretions, while in others it produces such relaxwhich in either case is very flow of mil

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