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## Agriculfural Allatters.

NEEEDED IMPROVEMENT IN PRESENT METHODS OF FARMING.
Read before the Wabaunsee Farmers' In-
stitute, December 20, 1887, by W. Marlatt, of Mauhattan
"Times change and we change with them," is as true to day as when uttered by the old heathen philosopher of two thousand years ago. The axiom is just as applicable to agriculture as it is to politics or the religious opinions of the day. That we live in an age of improvement is proyen by new modes of farming as well as of travel and transportation. The march of improvement, on all sides, is so rapid and aggressive that the former modes of agriculture however good in their day, are no longer equal or applicable, to the want of the present. The methods of the fathers will no longer answer for their
sons. Neither will it do to follow after our neignbor, since that which may be best for him, under certain circumThe present age of agriculture pre eminently demands brain as well as the hand to execute. Where both ot these are to be found in one and the same individual the highest measure of success may reasonably be expected As the several departments of agricul not be expected to excel in all o even a large proportion of all. Our raay be such as to wholly preclude on or many of the leading teatures ot a so called wixed agriculture. In such case a specialty of one or more of its leading industries may be most successfully followed. One's location, whether rich or poor soil, whether near to or
distant from a good market, must determine, in a great measure, what mode case, and lead him to act accordingly.
With low prices of grain and stock, and high prices for labur, one must, to plish the most with the least possible outlay of money or muscle. It is here that the wide-awake, inventive genius
has the advantage of the slow and plodding dullard.
The new and improved methods ulture depend succeed best in agripossession and use of all the so-called labor saving machinery as in knowing just how to make the best use of what machine is too often found to be a costly investment that sooner or later gobbles up the gross as well as the net earnings of the farm. Nothing so saps onu's energies as the consciousness of an indebtedness whose pressing demands he is wholly unable to meet.
Possibly one, if not the greatest improvement just now needed : is to get
out, and stay out, of debt. To pay as you go," was declared by one to be the mpnilosopher's stone." Earn your ally lead to wealth as well as honor, to fortune as well as fame. Abuve all else, be true to yourself; true to your your engagements; true wo country; in fine, true to all that is good and great. But, says ose, what has all provements in farming,
very much, every way. will much, every way. The true earmer thrifty in all his appointments. As far as it lies within him, he will grow good crops, raise good stock, live in a com-
fortable house, have a well-ordered household, with pleasant surroundings; all of which are far to often needed
improvements in our present methods improvements in our present methods know. With too many there is an
abominable slackness and waste of abominable slackness and waste of
what kind nature in her bountiful what kind nature in her bounce provides that wholly preon in the world. And yet, it is just such as these who, with lips stained and beard reeking with the foul odor of a filthy pipe, are forever complaining that fortune never favors them.
On the contrary the coming farmer
will be the one who reads and digests What he reads, who forms opinions of
his own on all subjects, and especially
such as relate directly to his particular line of induatry. He will thus have laid up in mind a repository of facts sind to time as the occasion may serve or the his own grain and rear hi own stock, and, as far as possible, do all these within and of himself. He, will make it a point to sell and not buy; to lay up in store during the "seven years
of plenty " against the one season of drought, thereby making the year o failure the most succensil so order he
eight. All in all, he will so ord or bad hat whether the to be goo show up a balance on the right side of the edger.
at we have doubtless already treated our theme theoretically long enough. practically. The first and great object n view in farming is to make it pay n growing grain, and in too many in tances, grain only, our lands are ras They no longer produce as they did wenty or more years ago. Like many on ushere to-day who have grown gray in this business, they, as well as we have become tired, and both want and
need rest. There is no better way to accomplish both these objects at once than to change our mode of farming gradually from grain to grass. This
can be done with comparatively little cost, and no material loss of annual income. With our broad acres seeded own to red clover, orchard grass, which take kindly to Kansas soil, the more worn and tired the better, and afford abundant pasturage for carefully bred hogs, high-grade cattle and wellbred horses, all of which may be made to thrive and grow fat on them, and he least possible expense or outlas money in their keeping.

Then again, there is nothing that will pay better for a young man or old man ther, than to plant out, and properiy fruits. The small fruits, so-called, may be made to pay handsomely almos rom the very start, while teapple win after planting, meanwhile the ground other hoed may be made to prodice hough ther were no fruit trees ng on it. Thus the actual cost of the orchard up to the time of proftable bearing, will be cut down to a mere trifle, so that at the end of ten years itself, but the land on which it was planted as well. After this you may it under your own vine and apple tree, o to speak, none daring to laught at, For you a crank, or make you ashamad. will, one year with annther, fetch you an annual income of $\$ 100$ per acre as long as you live. Therffore, wo repeat it, plant an orchard, plant in hope and plant largely, and you may rest assu that you will not be disappointed. briefly a faw ot the needed improve ments in farming that have been al-
ready tried, to some extent at lisast, and found altogether practical. There are still other modes that might be pre has been said to awaken up in each a spirit of inquiry as to what modes are circumstanced, trusting we all in our efforts to excel may continually be found provoking one another to love and good works, namely, a iove of farming coupled.

## Farmers' Olubs,

Editor Kansas Farmer:-We have a good Farmers' club here, and the editorial in a recent number of the Kan sAS
plan.
There are twelve families who are considered as active members. As many honorary members can be elected as desired. Meetinge are held the third what we may every month during The meetings are held at 10 o'clock, and during the other six months at 2. At secretary and treasurer are elected, and an executive committee whose business
it is to plan out the meetings for the year, and also what topics are to be
discussed. This is all arranged as nearly as possible at the first meeting. Dinner and supper is served by the
members where the meeting is held. No one is expected to bring visitors, meeting is to be held have the privileg of inviting as many outsiders as he pleases. such time gives a chance to bring it to invitesiders as the members se Select readings of the meetings. made upon the topic short speeches are cussion follows. In this way the ex periences of all are given and a considfee of one dollar is charged to each member when joining, and this is used for stationery and postage. This is the largest expense. The one here has been ear an institute was held by the Stat board of agriculture, and this year one was held under tie auspices of theclub, both were a success, quite a number of
farmers coming in to attend, taking armers coming in
All the membe
All members of the farmer's fam$y$ are included in the membership, and ne adies edjoy and take part in the
meetings. Any member can witharaw at any time, and a new member take the place. So far the applications for membership have been in excess of the vacancies. Much good has been done.
There is no good reason why such a lub should not be organized in every nerghborhood. The expense is smali, and in addition to the beneat secured rarmers, an opportunity is offered for social intercourse and enjoyment.
Eldon, Miller Co., Mo.

## Broomoorn Oulture--No. 2.

Editor Kansas Farmer:-After the broomcorn is laid by, the shed and machine for cleaning should be looked after. For a crop of any size, and when help is plenty, the double-cylinder machine is best. But for a small crop a single-cylinder does very well. In a slow-motion machine. The work can be done more thoroughly and with greater speed, and much less danger to the feeder.
All wooden cylinders should have one good strong iron band around well end. The cyhnders should be ing, and should be set in a strong frame, well braced, and the power should be that are made for broom corn machinery generally are too light for the work to be done. A doubie-cylinder machine is designed for two feeders. By the from the feederis should be a three by sixteen foot table of a convenien neight, upon which the broomcorn When taken from the wagon should bo laced as stralgat as possibe wis top be a good quick boy of 15 or 18 years, to he is bunching tor The brush should be kept perfectly straight on the table tor this boy, and kept near enough so more brush. He must make all the brush even at the but end by grasping -not too tightly-the bunches aoou midway and dropping it,-but end to bring the but of every stalk to the table at one stroke. It is necessary in sume crops to have two, and even a hird boy to arrange and stralghten for must be arranged for the conventincu of the feeder. His bunches must be of unifurm size and placed so he can finisha bunch witte one hand, and put it
in the box-by his side-and at the same time reach for a new bunch with the other hand. His work should be done without moving a foot. After a enough, and the advantage will be of considerable importance towards adbrush will go through the machine which must not be left in the seed pile too long or it will heat and become
worthless. It should be removed at least four times a day. A seed-carrier on the plan of a straw-carrier-chat is quite a necessary arrangement in dious to handle at the best. As the day's work progresses pile it to one shelve separate from the straight brush

The box to recoive tho eeders should be v shaped two and one deep deep, clused at one end and open at the should be of a convenient height placed between and immediately behind the feeders, open end next to them with closed end iittle the lowest. Erect a shade over the men and boys that work about the machine. The drying shed should stand north and south, built with the view of thorough ventilboards swang on hinges, if thelatter alternste boards on the sides should be swung also-if the former, nothing left open.
My experience has proven that the he ends are much the best, because to heat and not near so likely be cured in thold-more brush can the case of close shelving, assists very much in preserving the desired color-viz.-bright pea green. The curing even the will anvance faster and be more the throughout the building, besides This idea of open ends may be hooted at by older and wiser heads,-but prooi of the pudding, is in tasting it-I have operated both ways, and my loss was less and condition of brush much better coming out of an open shed, than sides-ends, are swung on hinges. Brish properly spread on shelves in an open shed scarcely ever needs any more attention. While in closed sheds it must be thinly spread, and very closely watched for suveral days. I remember my experience with one season s cros of forty-five tons, thirty of which was cured in an open-end shed, and fifteen in a closed shed-or rather a shed with alternate boards on hinges-the brush the open shed comes out an ., whil holor and considerably damaged for want of proper ventilation. It is true a part of the outside tier of an open shed will damage some, but the interior will cure with so much certainty and uniformity, that the damage counts nothing. 1 have used different kinds of sheds for drying, but the one most sim time answered the purpose as well as a more costly one-except for storin broomeorn after baliog-was set to pole wo feet in the ground, in rows eigh eet apart in the rows; one-fourth pitch een feet is high enough for center o building.
, Greenwood Co., Kas.
About Raising Beets for Stook.
Editor Kansas Farmer:-Having ried for the first time this year to raise beets for stock-feeding, I have become still more interested in the matter and would like some information upon the question. I am well satisfled from this year's experience with the large, long red wurzel, that beett as a feed crop for hogs or cattle ought to become a part of our regular crop, both on account of quantity crops. Last spring I concluded to take a ittle of J. C. H. Swann's advice and try
beet-growing, as he said drougtt and bugs was to be the order generally this year now
closing ( 12 p . m . this night), so planted back into listed furrow with stiring plow,
harrowed down ridges thus made, then raked them off with garden rake and planted thinned where needed-(many vacancies of four to eight feet and even more), plowed
thein three times with corn cultivator, and as a safe estimate, got one hundred buskels
of beets, when I only got ten bushels of corn to the acre (and not good either) on each having simply left the corn out of hopper
while running furrows for the beets. Now While running furrows for the beets. Now
what I want is, for the editor or the KANSAS or farmers, who can speak from experience
or any other reliable authority, to toll th comparative value as near as they can between the sugar beet and other varieties
both as to crop and feeding. I have seen it stated that sugar beets were far preferable for feading (as to value and cholice by hogs and cattle), but nothing said as to compara
tive yield. Also the best time for planting interest pertaining thereto. H. Biddle

Augusta, Butler Co., Kas., Dec. $81,1887$.

The farmer can not well get along without having at least a few cows. He is therefore interested, be it ever fo little, in making
them pay, and can not afford to shut his eyes to an opportanity of acquiri
profitable dairy management.

## Che Stock Interest.

The Farm Horse.
Read before the Seneca Farmers' Institute, by Poter Carmichaïl.
If I were to try to give a description of the farm horse, to suit every farmer, I would require to know all your different ideas of what that horse is, for I find almost every one has his own idea about that matter; therefore I will not try to describe a horse to suit every one, but tell you what I think is the most profitable farm horse to keep.
In the first place, he must have good size, good flat, broad bones, good sound feet, not too flat or to concave, sloping shoulders to give him action, long rump, good well-defined joints, and full loin, head not too large an. 1 well set on a well-arched neck, and a good color, black, bay or brown, although it is said that a good horsenever had a bad color.
That is about my description of the farm horse.
The next thing is, how are we to breed so as to attain such a horse? In your circumstances will admit of and breed them to a full-blooded horse, the best within your reach. D) not hesitate for the sake of ten or fifteen dol-
lars, for I am well satisfled that it is lars, for I am well satisfled that it is
better to pay $\$ 20$ for a full-blooded horse than to have your mare served by a grade for nothing, even if the grade looks as well as the imported or fullb'ood horse. You ask my why? I answer: In the grade you know nothing of his progenitors, and every one that
has given any attention to the subject has given any attention to the subject
knows that there is always a tendency to breed back as we call it; that is, to reproduce their projenitors in the off spring. The next thing you will ask, I suppose, will be, what breed will you use? I answer: There are three draft horses in the country, Percheron, English Shire, and Clydesdale, that you may use to advantage; each one has its ad vocates, and each has its good points. I am not here in the interests of any particular breed, but to stimulate you
to make up your mind which you will to make up your mind. Which you will ing in line, so as to preserve the type and make improvement at every step. There has never been and never will be any satisfactory results from cross breeding. As one of ny neighbors re-
marked to me last summer, "I have been breeding my mares to a running and trotting horse and I get neither one thing nor the other; I am going to quit. "The trotting horse without the trot is a poor piece of proporty to any farmer. I know there are other excelThe Cleveland Bay is an excellent horse to breed from if you use judgment in the selection of your mares to couple with him, as these are full of prepotency; their progeny is easily matched and make fine carriage teams tbat bring good prices. Absut the Thoroughbred, as he is called, I have nothing to say as I think there are few of Nemaha county farmers foolish enough to breed to a
trotting or running horse, as it is a wellknown fact that even with the mares and the means and time, only one in twenty makes any money to their breeders. Far too many of our farmers, either through lack of information or of confused ideas of what they require, or from indifference, are too easify satisfied; they use the first stallion
that catches their eye, or because he is that catches their eye, or because he 18
cheap, and thus lose sight of the qualities that they need for their particular mares, and allow themselves to be argued into the use of a stallion that has not one quality to recommend him for the use to which they expect to put his
get. They never stop to consider the
characteristics or propensities of their characteristics or propensities of their
mares, and even after finding a suitable stallion, they change to another or different breed, quite uncertain of redifferent breed, quite Having patronized high-priced
rults. rults. Having patronized high-priced
stallions in this haphazard fashion, they declare the whole thing a humbug and go back to the scrub, and say he is as good as any. But I tell you, fellow farmers, that the scrub must go, and I bave-always thought there was some affinity between a farmer and the stock he kept. The scrub will be relegated to the scrub
gether.

What Orups to Raise for Oattle Feed. Synupis of a paper prepared and read by
E. T. Frowe, bafore the Wabsuanso
County Farm E. T. Frowe, bifore ty Farmers' Institute.

That prairie grass is an excellent feed or a short time in the early part of summer, after which it gets tongh, and innutritious, and while cattle gain fl-sh very rapidly for two or three months, they often lose it as fast late in the season. The past scason was an exception, owing to late rains that made fall grass unusually good, leaving our stock in a much better condition than they often are at this time of the year. Now supquestion arises, what feed can we sup-
plement for grass until grass connes asain, and that economically? No doubt that a few acres of tame grass pasture would be most excellent, but the difficulty with us is to obtain a pasture of that kind, as we fail to get "a catch" of any of the different varieties of grasses more often than we succeed. But few have tame pastures in this vicinity.
With some, alfalfa fills the bill, with others it will do very well, and still others condemn it entirely. So taking things as they are, I thick we can do no better than to cut up plenty of corn, and feed our cattle once a day a ration of the fodder, and prairie hay, straw or millet for balance of feed; if not more than half the corn be taken off the fodder all the better. In fact 1 am not husking mine off at all this winter, and Whatever else we may have for a variety, can be fed to a protit. I think sorghum an excellent crop for a variety food, and one can obtain a large amount from a small tract of ground, and when grown, if properly secured and rightly handled, it makes a food that all kinds of stock delight in, and one which they eat up clean and thrive on. Yet, I don't think it best to feed exclusive sorghum, but use in connection with rrairie hay and it is all $\mathrm{O} . \mathrm{K}$.
My way of raising sorghum, and I ind it the best, is this: Have rich soil in order, and sow broadcast thereon equal parts of sorghum and German millet seed, at the rate of one bushe per acre, and harrow in lightly. My reason for mixing the seed with millet is that I secure a finer growth than if sown alone. Never sow on poor land for a big crop, as it exhausts the soil in proportion to the amount produced, or in other words, if you take five tons of hay off from an acre in one year, it exhausts the soil as much as one ton each year for five jears. The seed should be sown before planting corn, but may
be sown any time prior to the last of June. As soon as the millet is ready it should be mowed and let lay until cured, then rake it into windrows with a horse-rake, and cock by band, after which stack as millet, and you have something better than millet and more fit. Should it rain soon after cutting you stand a chance of getting a second crop of clear sorghum, for after being
cut off it will sucker out and make a thick growth, and if it don't get far enough along to cut again, it will make excellent fall pasture until interfered
with by frost. I think ensilage made from our fodder crops will be practiced in Kansas before many years, to a great extent, as a matter of economy, for it seems to me to be the thing to supply the lack of tame grass nourishment, and one acre of corn planted quite thick and made into ensilage will winter two cows nicely.
-Warm Water for Stock in Winter. The following paragraphs are taken from can Cultivator, written by Timothy Wheelur, Waterbury Center, Vt.
Stock kept in warm stables require warmer water than if they are kept in cold stables, so that this subject is doubling in impertance. A cow kept in a warm stable, and turned out to drink ice-cold water, 32 degrees being a temperature of over 60 degrees lower than that of the system, makes a great contrast, which must give discomfor to the animal, and loss to its owner. The profits of farming are so small that it becomes necessary that all leaks should be looked after, even the smal ones, and especially the larger ones like the one under discussion.
In the reading of five agricultural papers, and in conversing with many farmers, I find all are unsnimous in the opinion that our stock should be pro vided with tepid water or warm water, but the degree of temperature to which it should be raised becomes a question upon which the writers do not agree though none seem to know, or are positive, varying in their opinions from 50 degrees to 113 degrees. An avarage opinion seems to be from 60 degrees to 80 degrees. It is also believed by all that in warming the water a saving is made. in tha feed if nothing more. Nearly all believe there is a saving in flesh, milk and the manure-pile, in addition to the feed.
I have seen but one estimate of the value of feed saved daily per cow, and that was eight cents, which would amount to over two millions of dollars to the State of Vermont yearly, a sum worth saving; and this sum, be it remembered, is net gain, after the ex pense of warming the water is taken out. One writer says that he drew all the water that forty cows drank for one winter one mile from a spring, rather than to have them drink from a river near by, and he thought it paid him well.
The result of an experiment at an agricultural school in France showed an increase in milk of one-third, the water being warmed to 113 degrees. Other parties claim an increase of from 20 to 30 per cent. At the Agricultural college in Kanses, an experiment resulted in the increase of milk $8 \frac{1}{\frac{1}{2}}$ per cent., the water being warmed to 65 degrees. Another experiment in Franc: showed an increase in milk of three pints daily per cow by warming the water instead of using pump water. Pr of. J.P. Roberts, of Cornell University, says: "The water consumedby two sets of cows, containing three animals each, was weighed for a period ot thir. teen days. One set drank an average of 110 pounds of cold water each day per cow, and the other set an average of 120 pounds of warm water per cow, and the otber set an average of 120 pounds per cow each day." I have anther statement that cows will drink one-third more when the water is warmed to 80 degrees than they will at 3.2 degrees, and that the milk will increase one-fifth to one-fourth and without deterioration. Another statement: A cow that makes six pounds of but-
ter a week on cold water will make ter a week on cold water will make As milk is from 80 to 90 per quantity, quality and temperature of the water consumed.

Oomments on Cattle Sales.
Editor Kansas Farmeli:-In Major Sims' essay at the lreeders' meeting, he was speaking of there being 50 many poor steers in the vicinity of Topeka. It is some consolation to know that the whole State 18 nol in the same condition. Having been a resident of Kansas for tifteen years, your correspondent has watched the results of sales of fine atock all over our State, and has given Topeka as one of the poorest
places in the State for holding a public sale of fine cattle.
In the year 1873, I think, Mr. Vanhorn, that had a sale of Shurt-horn catthe at Topeka, and had to almost give them away. Mr. Hensley sold his show herd at this place wisa but little better results. In November. '82, Messrs. Harper and Ficklin, of Owensburk, Konuckey, sold forty head of good cattle at a luss of over seven hundred dullars. In ' 84 Mr . Guild and Mr. Waltmire made a sale of forty head of cattle, and this proved to be the worst sale of the whole lot. They had to stop the sale as the animals were selling so very low, yet there were some extra good cattle mong them
Mr. Lee, last June, sold a draft from his herd with very poor success; Mr. McCaslin sold his entire herd last August, some of which he paid good prices for, and I am told they did not sell for fourth of what they cost him. Mr. Mcafee sold a draft from his herd last April; but there were some good buyurs present fiom a distance aud his cattle sold fairly well.
No wonder they are selling off their fine stock in a place where they are so poorly appreciattd, and have moved their Short-horn meetings to Manhattan, where Short-horns are appreciated, for the writer has attended sales at both places and knows whereof he speaks. $\qquad$
Stock Notes.
In times of lee and bleet, when the roade are slippery, use frost nalls, renewed as often as necpssary, and you will have no trouble from slipping.
A shrewd judge can see in the calf, especially if he sees also its parents, and still more surely if he knew its further progenitors, the character of the animal in most. if not all, stages of its life.
'If the horse is warm when brought in, sponge out his mouth with cool water, and rub him down briskly with wisps of straw untll he is dry, and walk hlm arou
very warm, to cool off gradually.
Large breeds of sheep require good pasturage. They will pay only when the couditions are favorable. Uueven pastures, coarse grass and "pickings" will not do for them. Thry must be supplied with all they may require.
Sheep not in the best condition for breeding should be got rid of without delay, Distemper, foot-rot, and other diff cultiles in a flick cause too much labor. Oily the healthy ewes should be retain3d. All others unless nearly well, should be destroyed.
The following table shows the growth of the wool industry in the United States :


The state of the weather and the time of year must regulate the first few weeks of calfhood. The general principle is as much out-of door life as circumstances will per-
mit. Of courso in the very inclement wrather of mid-winter entire confinement is generally necessary until from two to six generally necessary until from two to six
weeks old. But even in cold winter weather, beginning with an hour or two, it is a wise plan to early habltuate calves to cold. It is January it is advisable to look out for frostbites.

## In the Dairy.

## OHEESE--BUTTER--MILK.

 Some days aqn a letter of inquiry was received at this office concernink cortain im-portant dairy matters, and it was referred to a practical dairyman for complete a
Editor Kansas Farmer:-I am in receipt of yeur communication containing letter from "W. W. W.," Hunnewell, Kansas, making inquiries respecting cheese-making. I take pleasure in giving throngh the columns of the Farmer what information I can on the subject.
Questlon 1.-Doss the amount of cheese
vaiy ns much as butter to the number of valy hs much as butter to the number of
pounds of milk, In the different seasons of pounds of
the year?
Milk, in its variableness, as noticed in the different seasons of the year, is caused to a large degree by the nature of the food upon which the cows are fed. Also by the surroundings, etc., of the dairy.
For instance, if cows are fed on prairie grass exclusively, of a poor, dry quality, during the hot months of summer, with a scant supply of water, the milk they yield will vary very much, and the proportion of butter fat will be small in quantity and poor in quality no matter how well the milk may be managed while passing tbrough the dairy. On the other hand, cows may be fed a farr quantity of nutritious fosd in addition to the grass they can get, but if the milk is not kept at the right temperature, and also the greatest care exercised with regard to cleanliness, the yield of butter will be both small and poor.
Good milk from the average dairy cattle of Kansas, during the months of May, June, July and Auqust, should yield 4 per cent. of butter, or about one pound of butter to every three gallons of milk. I am acquainted with one creamery where they use a centrifugal separator, and the yield was three and three-fourths pounds to the one hundred pounds of milk. The cattle I handied last summer produced a little over four and a half pounds to the one hundred pounds of milk. They were on a poor weedy pasture, but had a liberal supply of bran, and occasionally a little corn-chop. The milk was set in ordinary three-gallon tin pails with covers, the pails placed in running water at about 54 to 55 degrees. The amount of butter would probably have been larger if the setting had been done in cans that could be thoroughly submerged in water, at not over 46 degrees.
I bought some milk from neighbors, where the cows had a much better pasture but were not fed anything else, and the yield of butter from this milk did not exceed three pounds to the one hundred pounds of milk. The quality of milk, for both cheese and buttermaking is affected materially by the kind and quality of food consumed in its production. Where prairie grass is the chief green food, it appears essential that food also of a bighly concentrated nature should be given. I do not think, however, that this is the case when clover, blue grass or green cornfodder is used.
Good summer milk should contain 13 per cent. of solid matter, in the following proportions: Four per cent. butter fat, 6 per cent. caseine (orcured matter), 3 per cent. sugar, etc.,-the latter being in a soluble condition, after the cheese and butter have been extracted passes off in the whey, or as when butter only is made, is fed to the stock, tay pigs, calves, or poultry, together with the cheese matter in the skimmed milk.
I have contiuued to feed bran, cornchops and flaxseed meal, in such quantities as I deemed best, according to
varying circumstances (and my ability to purchase the same), and throughout the fall and the frst month of winter, the yield of butter has been from $5 \frac{1}{2}$ to $\theta$ per cent. I have not made any ckeese, but have no doubt that the milk contained at least one pound to the gallon. September and October are equally as good months for cheese as for buttermaking. I have often seen Canadian and 1 merican cheese on the Liverpool market, made during these months, in as good condition the followiug June as when first landed; in fact these are the cheeses of commerce most sought after, on account of their superior keeping qualities and general excellence.
Question 2-What amount of cheese will
the aucunt of milk make that it takes to uake a pound of butter, at the same season of tha year?
In giving a general answer to this question, I would say about two and a balf pounds of cheese can be mado from the same amount of milk that will be required to make one pound of butter But, as in answer to the former question, I would again remind your readers that much will depend upon the fteding of cattle and the general manage ment of milk, in cheese-making, as well as in butter-making.
A much larger quantity of "shopmade early-ripening cheese" can be made from the same quantity of milk than can be produced if the maker 18 desirous to get cheese "rich in meat clean in flavor, firm in texture," and that will not mature under six month and keep good for a year after maturity. This quality of cheese is made at a much higher temperature than the former, is subjected to considerable pressure under the whey, is as free as possible from any kind of acidity, and being much heavier salted, does not contain the same amount of whey matter in either a cured or uncured state. Question 3.-Is a cheess considered a fullcreaur eheese when the night'd milk is
skimmed next morning and added to the new morning's mulk?
This will depend entirely, in the first place, upon who it is that makes the cheese, and in the second place upon who it is that judges it after it is made. In the hands of a competent, experlenced maker, such milk may bo converted into cheese that will pass for "full-cream" with nine-tenths of the consumers. Oa the other hand, you may give the new morning's milk, together with the cream from that of the previous evening, into the hands of an incompetent or inexperienced maker and he will probably produce therefrom cheese that will not pass for "fullcream."
A "full-cream cheese," however, in he str ct sense of the term, is one that is made from milk which contained the whole of the cream.
I have not time in this letter to notice anything in regard to the mixing of milk, or the different temperatures of setting together for the various qualities of cheese that are made, vut will give what information I can on the subject to any of your readers who may wish to go into the business.
Question 4.-Can the whey be drawn off by uluans or a foucet in the bnt
boller, or has it to be dipped off?
This will depend upon the construction of cheese vat, of which there are several varieties.
I may add, for the information and encouragement of those farmers who wish to commence cheese-making without incurring too much expense for an outfit, that I have seen the finest quality of cheese made in a tub about twice the size of an ordinary wash-tub. and in some cases the whey was dipped off the curd, and in others it was drawn off by means of a syphon, which, of course, is less trouble than dipping. All that you absolutely require is a
good hard-wood or tin-lined vessel, large enough to hold the milk you wish to handle for making ore cheese; but I do not wish any one to infer from what I have written that I am inclined to disparage the great improvements made in dairy apparatus during the past twenty years. On the other hand, I welcome every improvement, and in this respect there is no country in advance of the United States. To all who can afford to buy one, I would strongly recommend the use of some one of the vacuum vats, as preferable to any other kind of vessel for cheese-making, as by this means the milk can be cooled or heated to the desired temperature, and all the work of making can be done in and over the maker; it is clean, compact and convenient; is a milk house and cheese-maker combined, the smaller sizes being pre-eminently adapted to the farm dairy.
Question 5 - Can the whey be used for
The whey, as I have already observed contains sugar and other properties good for feeding purposes. Of course the quality and condition of the whey will be argely influenced by the food given to the cattle.
I would not recommend the feeding of green whey in large quantities to young calves, especially when the pasures are flush, or directly after rains.
Whey, as it comes off the curd, is very elaxing in its tendency, and must be used judiciously. This may beobviated to some extent if the whey is scalded and poured over some kind of food more healing and binding in its nature. I cannot lay down any hard and fast rule for the feeding of calves. All who engage in this business must be guided by their own judgment and experience. and must take into account that calves, like men and women, differ in their physical organization, and are materially influenced by surrounding circumstances. In short, what is good, nourishing food for one calf will kill another in the same pen.
Whey is of great value in the raising of young pigs. In fact, I believe that pigs of all sizes will do better if supplied with a moderate quantity of dairy slop; especially is this so if the corn consumed is ground instead of being fed in the ear, and the whey, etc., mixed withit
With regard to the press, I would recommend one of the ordinary serew presses, which are affixed to a bencb with a strong wood cross-tree. I think that the iron-work will cost about $\$ 2.50$ at any of the makers of dairy apparatus Your correspondent will have to ask some one else about "tall meadow oat grass," as I have had no experience in this direction. As a general rule, may say that tame grasses are preferable for general dairy purposes, and wil repay for the trouble of cultivation.
In conclusion, permit me to remind 'w. W. W.," and all other dairy farmers who may read this, that there is a wide unoccupied feld in Kansas that may be profitably devoted to the cheese-making branch of dairy farming. At least three-fourths of the cheese consumed in the state is purchased trom other States, and all that is needed is to crganize and equip suitable prem ises for the business, so that we may convertsa part of the milk into cheese which is now made into butter, and often sold at 10 cents per pound, or more strictly speaking, is bartered to the country merchants on that basis; whereas the cheese will average at leas that price, wholesale, and as high as 12 or 14 cents, if made in sizes suitable for hotels and private families, besides making from the milk nearly three times the quantity of cheese as compared with the butter that could be
obtained. And, further, I may observe, that we shall by so doing enhance the value of that portion of the milk which s used for making butter, as we shall thus-reduce the glut of butter which occurs every summer, and receive a better price in consequence for that which we have to sell. And finally, whatever we receive for cheese may bs counted as so much extra profits to the dairy enterprise of the State; as it will be that amount added to the aggregate ncome of the farmers, which at the present time is a very desirable result. Another phase of this cheese-making business which should commend it to the favorable consideration of all dairy farmers, is the fact that cheese, when well made, can be kept on hand to a wait a better market, and will improve while being thus kept. It can also be shipped to foreign markets and is improved by the voyage, which is not the case with butter, as I have often seen the latter when taken from the hold of the vessel n a foreign port not worth more than the cheese that came with it.
Hoping that Kansas may yet come to the front as a dairy State, I remain,

Yours, R. L. Wigiti.

## Topeka, Kas.

What "Peculiar" Means.
Applled to Hood's Sarsaparilla, the word Peculiar is of great importance. It means that Hood's Sarsaparilla is differen from other prepirations in many val points, which makes it a thoroughly honest and rolable medicine. It is pecullar, in a strictify medicinal sense; Arst, in the combination of remedial agents used; second, in the proportion in which they are prepared; third, in the process by which the active curative properties of the medicine are socured. Study these points well. They mean volumes. They make IInod's Sarssparilia Peculliar in its curative powers, as it accomplishes wonderful cures hitherto
unknown, and which glveto Honds Sarsp rilla a cl-ar right to tha tittio of "The greatest blood purifier ever dlscovered
The school officials of Boston have posted notices in all the school bulldings of that city forbidding the ehewing of tobacco by the pupils. They have even posted the
notice in the girls' high school bullding, nuch in the giris high ornoo building,
much to the olignatlon of the young women.

## Onsumption Oured.

An old physlecian, retired from practice, havIng had places in hat hands by an East Incta misasionspeedy and, ermanent cure of Consump ion, Bron-

 $=2$

Weus,Richardson \& Co's Improved Butter Color.
EXCELS

## is STRENGTH PURITY BRIGHTNESS

## NEVER TURNS RANCID

## Alwaya eives a bright natural color, and




WELLS, RICHARDSON \& CO. BURIGMARON, VI.

## Correspondence.

## Trusts, Syndicates, Bto.

Editor Kansas Farmer:-"Does the protective tariff promote these combinatlons?" I am surprised to see the editor answer this question by an unqualified no,
made still more emphatic by repeating it. made still more emphatic by rapeating it.
(See FARMER of Dec. 15th, page 7.) No (See Farmer of Dec. 15th, page 7.) No
one will deny that avarice is the first cause. one will deny that avarice is the first cause., "The love of money is the root of all evil." sible for avarice to accomplish its unrightcous ends. The greater the number of persons that are engaged in producing a certain article, the greater is the competition, and the more difflcult it will be to combine and
put up prices. The FARMER itself has alput up prices. The FArmer itself has al-
ready asserted this fact by showing the difready asserted this fact by showing the dif-
ficulty of the farmers combining on account flculty of the farmers combining on acco
of their great number and isolation. We of their great number and isolation. We what proportion of the farmers do they represent? For instance the National Woorgrowers' Assoclation mentloned in the same
issue of the FABMER, if closely examined, issue of the FABMER, if closely examined,
will show but a small proportion of the wool growers, and still less of the tillers of
The fact is, a large number of farmers have a fow sheep and they exchange their wool for clothing, and are not caring for the prices of the wool, provided the goods cor-
respond in price. These do not keep authorized agents at Washington to look after leg. ized agen
islation.
But to return to the first question. Ì asserted that a largenumber can not so easily combine to raise prices. For instance, it is easler for the sugar refiners and glass manufacthe FArmer of Nov. 10th, p.11) to combine, than for all such manfacturers in the whole world to combine. Therefore, when the protective tariff shuts out these forelgn competitors, it prometes these combinations; and no amount of prejudice should prevent us from seeing this fact. If American salt Is cheaper than foreign, as you say, then combination can raise it to that price and as much higher as our government sees fit to protect it by tariff Do you see?
I am willing to belleve that many and perhaps most of our advocates of a protective tariff desire to aid nonest labor in them to look carefully and impartially if they can. If the greater benefit accrue to oppressive monopolies, then it certainly is not what is wanted. If a fort that is intended for our protection falls into the hands of the enemy, then we try to destroy
it if we cannot drive the enemy out. In like manner as greedy monopolists are combining against the people, who aided them by protection in the past, and are denying us the home competition which the tarifiling to allow a fair share of their profits to the laborer, we can no longer regard the present tariff as a fort of defence for the people, but as one of the strongholds of avarice, and hence we must destroy it or modify it so the detriment of the general good.
On the editor's page of the Farmer of Dacember 8, a "farmers' syndicate," or at least a "farmested. But there are serious objections to that plan as the farmer's remedy. 1. So many legitimate combinations in aggrandizing conspiracies against the common good. This may do so too. 2. We should not do what we condemn in others. In every neighborhood where good-will exists the legitimate co-operation, such as
rushing grain or stock to market, raising buildings, thrashing, etc., can and is accomplished without such syndicate. 3. It would deatroy the independence of our farming selves and the country an inestimable blessing. If they "work for the company under one contral management" they become and workers developing body and misd by work and thought. When a man plans and does his own work it is done best, as a rule.
4. It would create dissatisfaction, because persons would want things managed difpersons would want things managed dir-
ferently. The careless would injure the tools owned in common, neglect to return to
to wait for the use of implements, and bear the loss of the former's neglect. The careful is human nature. 5. If there is a central management there must at times be funds management there must at times be funds
in the hands of heads thereof. Then we would see some sudden immigration to Canada to do company to the many bank central heads of organized business that is getting so common to the shame of our country
The subject is indeed a serlous one. The application of "The People's Dead Line," spoken of in FArmer of November 10, also has its difficulties. The only way to make the line clearly drawn. And how is this possible unless it forbld all combination to raise prices? Although it is good and proper to combine for mutual improveinent and assistance, the moment it is applied to regulating prices, the selfish nature of man limit if he is allowed or enabled to fix the imit if he is allowed or enabled to fix the price of his own production. If the consumer of such productlons were allowed to fix the price the same selfish motives rule in him. The only way to approach a just price is ogulate it. If it is posalble demand to eguiate it. If it is possible by any means on prevent all comblat above the natural level and also to erevent combination for depressing prices below the Then we may have honest compatitione Then we may have honest competition. A combination of arais buy comblnation to keep up or raise prices. And when railroads combine with other comblnations and try to force prices up or down it is still more unjust. A fow years ago we had a sample of it when railroads refused to haul grain unless it went through the elevator. Lat these questions be agi bearings they are understrod all the provide an effectual remedy to existing evils and a preventive against others that dre jus

## Some Tariff Suggestions.

Editor Kansas Farmer: - President Cleveland did a wise thing when in his mes sage he gave special prominence to wool as an article on which the tariff should be reauced. I suspect he builded better than he knew. The intelligent voter will get a more
correct idea of the principle of protection from the discussion of its effects on wool growing than from any other source, because he is more familiar with that industry than with any other that is protected. Wool is produced in every State and Territory, and wool-growers are not as a rule millionaire corporations given to ways that are dark and tricks that are vain. Therefore, when flocks are butchered and their owners seek other employment, it is a plain case-wool-grow ing is not profitable.
The facts in the case are these: Under a high tariff, sheep men prospered and con tributed to the prosperity of the country in general. When the tariff was reduced, wool became unprofitable and growers went into other agricultural employments already over-producing. Then, but little revenue was collected from wool-about $\$ 1,700$ per
annum; now, more than $\$ 5,000,000$ are collected annually.
The questions naturally arise: First-Is the price of wool exorbitant? SecondCan wool be produced at a fair price in this country? Third-Is the industry of sufficlent importance to justify protection manding protection.
In answer to the first, I will say the prices of all articles mentioned in this discussion in the Farmer are low enough, are reason able, as has been previously demonstrated In answer to No. 2, we have plenty of grass, plenty of grain to grow wool, and also facilities for carrying on the other branches of industry demandthg protection. No. 3practicable prantant at this time that every to give employment to our people and to create, develop and maintain a home marbet for our products. Of course some one will object that our people are not fully employed at present. I will ask such, will reduced tariff more of our goods are im ported and less produced at home? There
are more points than the tariff to consider when dealing with the labor question. It is argued that protection benefits only the employer and does not increase wages. Protection maintains the price of the product, thus making it possible for the employer to pay high wages. Whether he does or nnt is not a tariff question. One thing is certain: Reducing the employer's profits will tend to increase the employe's wages.
One correspondent fails to recognize any benefit to be derived from a home market. My ldeal is a market-where I can sell turnlps, sweet potatoes, fresh fruits, etc. These things can be produced profitably where a market can be found, while corn and wheat can be produced only by slave labor except by capitallsts in large quantities. Erect a sugar factory at Deerfield, and I and my neighbors will thrive in spite of hot winds, uaising sorghum that we can't ship to Fort Scott, let alone to "Lunnun."
It seems to me the way out of the tariff muddle is so plain that the honest voter, though a Jacksonian Democrat, can not err therein. What is the matter with this mode of treatment? Reduce the revenue to proper on other by raising the tarifi on wool and dustries; by removing the tariff from sugar and paying a bounty to home manufacturers of same, and by giving substantial encouragement to our ship-builders? Since Perry's victory, l'm proud of onr seamen and don't want the craft to become extinct or to be uced to a state of innccuous desuetude.

Pay the Soldier Before Reduoing the Revenue.
Ed.tor Kansas Farmer:-I see by several recent issues of the FARMER, that you are in favor of a reduction of tariffs, esumber be placed on the free list. and that permit me to inquire, if it is a settled fact that the manufacture of sugar in the United States, and especially in Kansas, will prove remunerative in a reasonable degree, in case duty on imported sugar is discontinued. For I am as much in favor of a reduction in taxes of every kind as yourself or any one ove, provided it can be done and to say to all mankind, truthfully, that she has met all her obligations, and paid all the debts she owes, both at home and abroad; and that her revenues are still ample to defray all necessary running expenses of the government and some to spare. I am well convinced that we have au honorable class of citiz has not paid them as per contract as to actual value of money, nor as to amount paid to each creditor for similar service rendered, and they demand an emphatic answer in the near future as to whether they are to recerve what is due them or not. I refer to the men who rescued the country from total ruin -who as soldiers, were mustered into the army under a law that prouised them pay in money that was worth one hundred cents on the dollar. They have never received it. equal were also promised equal has, on one occasion been denied them, by the veto of a single man. They were also promised that wounds disability either from disease or this latter promise has been complied with, but in part only; for tens of thousands of them are inmates of alms-houses and county poor houses, and are dying in these places is not due to a desire upon the part of the masses of our people, but is due to a most shameful neglect upon the part of our lawmakers, both state and national. The people are perfectly willing as a mass to disharge these obligations without dolay The only real opposition to all this is found mong the soldier-hating arks, who are opposed to the government paying any of her debts, except what interest she owes them, on bonds they obtained largely through depreciating the money that paid the soldier, and but for this class would have paid them very nearly in full.
The soldiers are willing to pay these men all they have been promised by the government, and ask the government to use them ikewise; and then, and not until then, shall bey in favor of a reduction of tariffs. To what she owes her soldiers, but is able to
pay her bondholders all they have ever asked; and hundreds of millions that was guite thin them, in strict justice, is getting quite thin in presence of the fact that the ha soeen derived principally from luxuries a large share of which comes from imported articles at that.
Until this government deals justly with her soldiers by way of paying them all she ever promised them, and by enacting such laws as will keep every man of them out of county poor houses, I shall oppose a reduc tion of tevenues on all luxuries. $\$ 100,000$, 000 per annum will pay every man of the war of the Rebellion now living a pension of $\$ 8$ per month. Our income from reve nues the last year wàs over $\$ 300,000,000$, eaving a large surplus in the treasury after all her expenses were paid for the year. Now, Mr. Editor, there is nothing more political about this article than there is in your own articles touching the tariff question. I have made no attack upon any party, but charge the shameful neglect to which I have called attention, to those un friendly to our country, and to the money sharks of all political parties.

Late of Co. D, 34th Ind. Vol's.

## Sorghum and Oats for Feed.

Editor Kansas Farmer:-The past season of 1887 I gave the mixed-oats-and drouth of July, the second crop of sorghum drouth of July, the second crop of sorghum
alone was nearly a failure. This method for alone was nearly a failure. This method foc-
three or four previous years was very sucthree or four previous years was very suc-
cessful in one of our western counties, where it has given the most gratifying results as to it has given the most gratifying results as to
cost of production, and the immense amount of feed, especially valuable for young growing stock. While the yleld of oats was only thirty bushels per acre, the excellence of the oat straw and sorghum anply repays me for the cost of seed and extra drilling in of the sorghum seed. Two seedings, one of two bushels of oats and one of one bushel of sor ghum seed per acre was drilled in about March 20; this double drilling was done to March 20 ; this double drining was done to
insure an equal distribution of each kind of insure an equal distribution of each kind of drill-a force feed "Hoesier Press"-would not feed it foed "Hoesier Press"-would not feed it regularly, as the sorghum seed settled bolo the oats and fed out first. Th oats were ripe July 1, the sorghum being vearly three weeks, when it was put up in nearly three weeks, Nhen it was put up in small stacks. The cutting of the second August we seen in fine stalked and bladed orgome four feet o Cured on the Cured on tubble stuble, it is more thoroughly cured than
earlier in the season. This all-sorghum hay earlier in the season. This all-sorghum hay
will be best stacked in small hand stacks o one ton each on the ground where grown.
Large stacks are liable to mold and fermentarge stacks are liable to mold and fermen-
tation during a thaw after severe winter weather.

Gossip About Stock.
Breeders of Holstein-Friesian cattle having animals to be recorded in Volume III of the Herd Book should send their i-pplications at
once to the Sreretary, Thos. B. Wales, Iowa City, Iowa. The blanks are furnished free
Readers of this paper are invited to confer With our advertisers, who are representative
bnsiness men deserving the patronage of business men deserving the patronage of
thive who need anything in their line. It is
always advantageous to mention Kansas always advantageous to ment
FARMER every time you write.
R. J. Blackledge, Salina, Kansas, breeder of Clyde and French Draft horses, reports
he has just sold a fine Clyde stallion to some of nls Barton e unty neighbors, also reports the prospect good for selling a num
ber of stallions between this and spring. Dehorning cattle is becoming quite gen-
eral throughout the State, and the result is eraported quite satisfactory. The subject
was thoroughly discused. was thoroughly discussed through these
columns last winter advucating the idea.
Further facts from the experienced wlil Further facts from the experienced wili
be appreciated by readers of the KANSAS Farmer.
This week the publishers of the Kansas FARMER had to print six thousand extra
coples of the paper to meet the demands of coples of the paper to meet the demands of
our custoners. Breeders should take the
hint and have their cards permanently lacated in
West pri West prints so many extra copies as this:
The fart has so many paying subscribers. The fact is evident that no farm paper in A merica gives so much of value to its readers
and advertisers in return for their money as
the KANSAS FARMER. The enterpiling and Kivertisers FAreturn or their moneny as
the KANSAS FARMER. The enterpilising
perpe of the West realize this and are
rapidly falling into rapldly falling into line as worthy patron
of the "old reliable" KANSAS FARMEB

A SPEOIMEN OF KANSAS PLUCK. It is now nearly twenty years since George W. Crane and his partner, with a hand or two, opened a little job printing office in Topeka for the purpose, among other things of preparing and printing blanks and blank books to be used in legal proceedings, by Clerks, Sheriffis, and other coutt officers, Prebate Judges and Justices of the peace, persons in private and meunicipal business,
lawyers, abstractors, bankers, railroad lawyers, abstractors, bankers, railroad
men, real estate, loan and insuruitice agents, officers of the State, of counties, townships, cities, school and road districts. By following closely the line originally determined; by industry, temperance, hard, steady work on his own part; by employing only competent workmen, paying them good wages and retaining them continuously in his employ; by engaging the best legal talent to prepare the blank forms he adopted; by usleg none but the best materials and turning out firstclass work always; by judicious and persistent advertising: by promptness and punctuality in filling ord rs! by watchful attention to details: and by honorable dealing with his customers, his business grew log with hitll it included the printing of al steadily unth cooks used by lawsers, manner of books used by in yers, judges, court omcers, and porsons in omcial places such as lawyers' briers, court dockets, com plations of laws rela ters, as roads, schools, townships, and to particular branches of law practice before Justices of the Peace and the higher courts volumes of special laws, of the general statutes, digests of laws and court decisions, and finally to the printing and binding of law books generally, and miscellaneous books, and the making of all necessary conveniences for reference to books and papers and for their preservation, such as index books, stub books, perforated shects bound and loose, special binding devices, files, covers, etc., in short, everything in the line of classified stationery, printed, ruled, perforated, stitched, bound or loose, and devices needful or convenient in all kinds of private and public business, from a promissory note book to a double-ruled ledger, together law and miscellaneous books in gener
The business now has a plant worth $\$ 125$, 000 , and the trads amounts to upward of $\$ 350,000$ annually. It is the largest establishment of the kind in the country west of St. Louis. Paper and other materials are purchased and stored by carioads; fourteen printing presses are used, and one hundred and fifty persons, experienced in their several departments, are employed, occupying a floor space equal to three-fourths of an acre in a. magnificent five-story building, $50 \times 135$ feet, erected specially for this particular siness. The pay-rell foots up $\$ 2,000$ and more weekly. The trade long ago spread beyond the boundaries of Kansas and now extends as far west and northwest as California and Washington, going south through New Mexico and Arizona to MexIco, and to Texas and other States south as far as Florida.
The secret of Mr. Crane's success lies chiefly it the character of his work and his promptness in filling orders. He never sent out a blank form that was not legally correct in phraseology and statement, or that
was not neatly printed on good paper; he never sent out a book that was not strong and substantially bound; his work always gave satisfaction, and he got it out as fast as good workmen could do it and de it well. Crane's blanks were safely relied upon in law practice, and his books ranked among the best made in the country, as therr wide distribution proves. Although twice burned out, he never lost courage, he never slighted a job-he and his business both deservedly grew stronger and better.
The new Crane bullding, thrown open to the public last week, is a splendid edifice facing Kansas avenue, rising seventy-five feet above the basement-a massive front of stone and glass with great arched windows, presenting a beautiful spectacle at night when all the rooms are Illuminated, as they were during the opening nights. The floors are doadened to avoid noise, every story is a room and devoted to a particular branch of the business. The stereotyping, planing, shaving, grinding, box-making, and all the rougher work is done in the basement; the first floor is the salesroom, where samples of stock are kept and most of the finished work-immense masses of books, blanks
up for delitery or shipment, and where the superintendent, with his assistants, short hand writers, clerks and accountants have their places and desks; the second floor is the bindery with a wouderful variety of nala chinety; complete in every detall; all run by electrical power; the third floor is the stock room where tons and tons of paper and binding material is arranged in long pile with \& ponderous paper cutter near to adjust shapes and stzies of sheets and pleces; the fourth floor has a fifteen-foot celling, is ighted front, rear, side and top, airy and comfortable, and is occupied by four or five dozen printers who do all the type-setting for the entire business; the ifth floor, next the roof, with its sky-lights, is used for storng such things as are not regularly in use and such as are to be kept for reference only in case of need, as ettra tools, old papers, ccounts, invoices, beoks, etc., all of which office bolow.

## offlce bolow.

The presswork is dotis in a long room in an adjoining building constructed specially for that kind of work, nine of the fourteen pressés beling large cylindor machines rest ing on solid masonry, all driten by an elec ric motor occupying space about equal to that of a flour barrel.
The prlnelpal office, where orders and all original papers ate first examined, and from whence instructions are first iosued, is immediately in front of the press roow; and here may be seen, almost any minute during working hours, the head of the business -modest, quiet atid unassuming, as he was, when twenty years ago he worked with wheeves rolled at the case or press, or bind er's table, Mr. Crane, himself.
The whole building, with its annexes, is heated by steam from two large underground boilers; every room is provided with water pipes for use in case of fire, with alarm bells and police communications, with water closets and sinks, with electric lamps for use at night, and a large, strong, hydraullc elevator, for carrying frelght and passengers, ples continually from floor to floor, making communication practically instantaneous. Every room and every department of the business is connected by call bells and pneumatic tubes wich the main offlee.
Vast as the business is and intricate, Involving as it does, a great many detalls, it is all so perfectly systematized that it works like a colossal machine-eyery part doing is own particular work.
Mr. E. Kimber is general superintendent, and has grown up with the business, having been with the house continuously for seveneen years.
D. O. Crane is cashler; Frank Crane asistant cashier; W. J. Stuag bookkeeper. J. H. Oqden is superintendent of printing. having for assistants, T. P. Holcraft, foreman of book work; Willis Coates, foreman of job work; A. G. Carruth, proof-reader W. H. Casey, foreman of press room, and C. W. Eberhard, foreman of scereotype and electrotype foundry.
J. W. Bloomsield has been for sixteen years foreman of the bindery, and is assisted by John P. Marion, head ruler; Geo. L. Kramer, head finisher; Mr. Elston, head forwarder, and Miss Josie Baily has charge of the lady employes.
Mr. D. S. Plpes is superintendent of the law book department, and Mr. A, S. Huling, the stenographer, has charge of the cor respondence.
TLis is the record of a business to be proud of, not only by the gentleman, immediately concerned, but by the people of To-peka-in particular and by Kansans in genoral. It shows what energy, industry, taste and pluck will do. It gives a Kansas business house a name and standing throughout all the West and South.

When we were in Kanses City we had the pleasure of meeting Mr. Campbell, of the frm of Jas. H. Campbell \& Co., who do business at Kansas City, Chicago and St. Louis stock yards. They follow a strictly commission business. They handle a large number of cattle, hozs and sheep at al three markets. They report prices good for hogs and sheep, but that cattle prices are but little better, though the outlook for future values is very favorable. Partles having stock on feed or ready to ship will do well to patronize this firm. They are very way to give satisfaction

## Book Notioes

The Catendar of N. W. Ayer \& Son, Philadelphia, Pa., for 1888, is well worth the price-25 cents, and that but little more than pays for the packing and postage.
The January number of The Chautauquan presents an unblased discussion of the quespresents an unbiased inscussion of the ques-
tion of the saloon in politics, by means of letters written for that magazine by promiletters writ
nent men.
Heads and Faces, and How to Study Them. - A manual of phrenology and physlognomy for the people, by Prof. Nel on Sizer, phrenological examiner, and Dr H. S. Drayton, editor of the Phrenologica Journal, 200 pages, October, 200 illustra Ions; paper, 40 cents; extra cloth, 81 , New York. Fowler \& Wells Co., publishers, 775 Broadway. A new edition of this work, making 40,000 coples in about two years, has just been published.

Topeka Weather Report. Sergeant T B. Jennings, of the Signal weekly with detalled weathbr repor make an abstract for publication and file the copy for reference, should we ever need details.
Abstract for
January $7,1888:$
Jemperature 7 , 1888:
Temperature.-Htghent at $2 \mathrm{p} . \mathrm{m}, 49^{\circ}$ on Tuegday. the 8d; lowest at same hour, 80 on
Saturday the 7th. Highest recorded during the week, $51^{\circ}$ on the 8 d and 4th; lowest, zero on the 7th.
Rainfall.-Rain fell in measurable quantities on the 5th, 6th atia 7th; total, 48-100 of an inch

Prof. Rlley, one of the first authorities on insects, does not approve of whitewashing the stems of shade trees. As against the tussock moth it may be of some slight use, but the bag-worm, the web-worm and the elm-leal beetle can not be affected by it.

## Hood's Sarsaparilla

This successful medicine is a carefully-prepared
extract of the best remekles of the vegetable exingdom known to medical sclence as Alteratives, Blood Parifiers, Disretics, and Tonics, such as Sarsaparilla, Yellow Dock, Stillingla, Dandellon, Juniper Berries, Mandrake, Wild Cherry Bark and other, selected roots, barks and herbs. A
medicine, like anything olse, can be falrly judged only by its results. We point yith satisfaction to the glorious record Hood's Sarsaparilla has en. tered for itself upon the hearts of thousands of people who have personally or indirectly been
relleved of terrible suffering which all othez relleved of terrible, suffering which all other 81 ; six for \&s. Made only by C.I. HOOD \& CO.,

## 81; six for 85. Made only Apothecarles, Lowell, Mass.

## 100 Doses One Dollar





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Grape Baskets, Egg Cases, Berry Boxes and Crates, Peach Boxes, Tree
Wrappers, Veneering, and Packing Wrappe
(Telephone 1,083.) WYANDOTTE, KAS.

## For Sale!

Registered Berkshire Pigs and young Sows
bred, and from prize-winners. Foundation bred, and from prize-winners. Foundation stook Duchess and Nindsor Castle rame
Largest and best in England or Amerrica.
Premium Langshan and W yandote Chick Premggs in season.
$\begin{aligned} & \text { ens. End price list before } \\ & \text { write for catalogue and } \\ & \text { purchasing. } \\ & \text { J. L. BUCHANAN, } \\ & \text { Belle Rive, } 111 .\end{aligned}$

## HUGH E. THOMPSON



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Absolutely Pure.
This powder never varles. A marrel of purlty the ordinary kinds, ane cannot be sold in competition
with the multitude of


MERINO PARK
SAM'L JEWETT \& SON, Lawrence, Kas.


As shown above, "htgh-fying" prices do not now
prevail, as we now offer 150 Registered Rams for sale As shown below at "hard pan knock-down" pricen
Satisfaction quaranteed.

[Mentlon Kansas Farmer.]
Take care of your Horses and Cattle by
using Dr. S. P. Cregar's STOOK OAKE \& ANTI-WORM BEMEDY
 upon the kidneys, regutates the system and puis the
animals in healthy, tkrivng conditon. Also is Preventive Agginst Pleuro - Pneumonia
tn Cattle. Price cents per cake.
Dr. 8. P. Cregar, 1464 Wabash Ave., Chloago.

##  <br> 80 c . to 82 per rod. 



 COHSULT LORD CDOMS THOLIS

The foome ©ircle.

## Blindfold.

What do we kn
old and wire?
Do the yearsthat till
the thows oyes?
At twenty we the
At twenty we thought wo knew it quicken there at tor foete wo knew it, the world
We thoughtwe bad found it bitter, we kne

 And $\begin{gathered}\text { foretell } \\ \text { hane } \\ \text { have learn }\end{gathered}$


bright-eyed bird, guessed the mind of the
Whom even the duil
Whom even the duli rocks cheat, and the
whirwind awful word?
Let inosen the eilliet of clay from the shut
For and darkened lidid a blindfold game, and the Voice I face Him view is hest I can, still groping, here
and there,
Well, I dectare him my mid friend-the friend of
and 0 , that the game w
May boloe heard, may be meven
that may come true.

## Next month, next year, our souls To noblerefforts, sweeter rest: We hopeto lay uside our cures; <br> We hoperto lay uside our cares; With peacerul musings to be blest <br> Our minds enlarge, our rrace increase, Our vain, ambitlous strivings cease. <br> But death stands waiting, and his hand Falls on us even as we strive <br> Fulls on us even as we strive, With selfish purposu in our hearts And selfidh longinks still aifive. With relfish purposu in oul And seltioh louginks still Go, let peece for which we Each hour and monent leen Beek thou tts presence eve .

## Mood seale of tustio hang betiven 

## Beal and False Modesiy.

It would be well if young women were shame and an affectation of modesty as un lovely as forwardness, and which repels as effectively as brazenness. To be on the ulty for extracting the bliters of evil from any good, is all inmodest. To see wher harm is not intended is immodest. The
young woman who thought she would die of shame because some gentleman came into the gallery where she was alone with
the statue of the Venus of Milo, who fell into confusion and blushed mightily, adver tised a modesty that was possibly only skin deep. A blush is something sacred to pure womanhood, and it is a sad spectacle for thoughtful eyus to note a young woman so far gone in thé improprieties that she pretends to be sloocked at things which simple, unaffected candor is far from thinking wrong at all. There are other virtuous and modest young ladies who manage to convey by subtle insinuations that they are deeply coneclous of senses which a really modest woman would ignore. It is true, indeed, as a great writer has sald, thut a modest woman
must be at times both deaf and blind. Disagreeable happenings, offensive to eyes and ears, nre at times incidental to almost every one's life. The most sheltered young lady cannot be entirely protected. She may find herself in places where profane language reacbes her ears, where objectionabler modesty to take on an armor of dignity; it is the time for her to be both deaf and blind. There are many things in life that a young woman ought to know of, and which, if they did know, they would regard as great sol emn truths, too sacred to be gigaled at, which are not proper subjects for conversasation, but whioh none the less ex:st, and woman-or a young man, either-there is no safety in ignorance. The mother assumes unwarranted responsibility who leaves her innocent growing girls and boys to be educa ted in the mysteries of life by unthinking outsiders. Constant rubbing cannot wear off the delicate hue of the sea-shell, nor ca the real purity of mind, the real modesty o Mock modesty is twin sister to that virtue Mock modesty is twin sister to that virtue
which consists in not being found out. Per wives
nal.
snns who affect it are social "suspects." Beware of it, young woman, because it deoung men who are in search of lovely wives will beware of you.-IVoman's Jour-

## Hindoo Abstemiousness.

There is no abstemiousness in the world, and no thritt, like the thrift and abstemiousness of the average native of India. Almost alone among the workinamen of the world, he has raised himself nearly above wants, has stripped himself of all the 1 mi pediments of luxury. Millions of men in India, especially on the richer soils and in the river deltas, chlldren, upon an income which, even when the wife works, is rarely above two shillings a week, and frequently sinks to eighteen pence. The Indian is enabled to do this not so much by the cheapness of food-for, though it is cheap, a European who ate the same food would want fire times the money merely to feed himself-as by a habit of living which makes him independent of the ordinary catos mankind. He goes nearly without clis wife in a long piece of the most wretched muslin Neither he nor his wife pay tailor or mill ner one shilling during their entirelives, nor do they ever purchase needles or thread which, indeed, it is contra
The poorer peasant inhabits a hut contain ing a single covered room of the emalles size, with an earthen platform or two outside it, and as ho constructs and repairs his own dwelling he virtually pays no rent, ex
cept for the culturable land. He never touches alcohol or any substitute for it. There is an idea in Eagland that he eats opium or $h \in m p$; but he, as a rule, swallows neither; firstly, because he regards them with as much moral antipathy as any Euglish gentleman, and secondly, because he could not by any possibility pay for articles which in India, as every where else, are exceedingly expenstive. He eats absolutely no meat nor any animal fat, nor any expensive grann like good wheat, but lives on millet or small rice, a little milk, with the butter from
mllk, and the vegetables hegrows. Even of these he eats more sparibgly than the poorest Tuscah. Once a quarter, perhaps, he will eat enough, duriog some restival, but, as a rule, he knows accurately what will sustain him, and would be enraged with the wife who couks for him if she prepared more. He is assisted in this economy by a religious rule which we have never seen Hindoo break, and which is undoubtedly, like the rule against killing oxen, a survival
from a military law or custom of the most remote antiquity.-Spectator.

## Nervous Days.

What woman has not felt the rarefaction
What woman has not felt the rarefaction
of a day when her nerves seem so delicately poised that a feather's weight on the wrong side of the balance sends everything sky ward and she feels as though she would "il all to plecee." The children's voices seen keyed to a higher note than usual; the canary's song is shriner, bells that chime all seem jangle and out of tune.
When such a day comes to the mother and When such a day comes to the mother hemer, her swaller cares and burdens home-keeper, her almost too heavy to be borne; she sees, in the sudden keenness of her mental vision, a 1 the duties of a far-reaching future epread out as in a panoramic view and brought by
the lens of her distorted fancy within touch the lens of he.

## ing distance.

I remember such a day, now several summers pait, when the sunlight and bowers were calling me to come out and keep the company, but I resolutely shat my heart to
their enticing, feelline that lifo was all to short end its stern duties too many for me to waste a moment in paths of pleasantness. yy dauphter Grace, then a little maiden of years, years, watched hy hurrying steps and nerand cried out: "Mamma, mamma, what and cried out: "Mamma, in
"Mamma must hurry, dear, she has so unch to do."
"What is 'so much,' mamma?" said the little questioner, and I, in a most convincing way, enumerated about a haif a hun-
dred bits of work that would take me a month to accomplish, and this small philloso-
pher made answer: "But you don't have o do it all to-day!
I flung aside my sewing, and, taking my little preacher by the haud, went out and spent a pleasant half-hour under the trees,
where, with my clearer vision, I realized that I had allowed my "sea of troubles" to roll towards me until I was in danger of beoice had stayed the tide.
oice had stayed the tide.
But though we cannot ulways see the hand nor hear the voice, the remedy is cer tainly sou ewhere for each and every one of us, and it is a positive duty to ourselves and to those about us to seds, as the feeling, il best suiced to our needs, soon rusts out the finest spiri encouraged, soon rusts out the finest spirit
and corrodes the heart.-Good Housekecp and co
ing.

## Oleaning Windows.

A correspondent of an exchange has the following useful suggestions to give on the subject of cleaning windows:
There are few things that add so much to he attractiyeness of a house as clean windeems it one of the important duties of her deems one the shall be as clean and bright as she can mage them. To keep winbright as she can mase them. Town bright and clean is anything but an ows bright and clean is anything bufter easy task, for they require to be looked after No matter how clean and tidy the room may o matter how clean and the windows are not lean all the tidiness goes for nothing. Many housewives, who are anything b Many housewives, who are anything but
areless in the rest of their work, are negcareless in their windows, inasmuch as they niay often clean them, but do so in such a careless manner that they are never really ciean. Evers woman has a way or her own perior to any other, but very few of them have a good method, and may be improved on easily.
Many women use soap to help them in washine windows, and then wonder why the windoiws look so streaky. Soap should
never be used for this work, for if it is, the never be used for this work, for if it is, the hass been cleaned without. To be sure, they are always rinsed after washing in this way and, even then, though they may look as well as those washed in clear water, yet well do not look any better, and the extra they do not lobay Do not use old table linen for washing or wiping windows. It is certainly nice and soft, and would seem to be just the thing, but the wiping off of the be just the chab binen is sure to leave after it, outwelghs all the merits of softness. Cold water is usually used, but this requires so much wiping, and if there is any grease on the window, which is often the case on the window, which is often the case
where there are children, so much hard work to remove it, that warm water is much to be preferred.
preferred.
Choose for this work a warm day; if cloudy all the better, though by no means ever clean windows on a damp day. If it is a suuny day do not wash any glass while he sun is shining upon it if you would hav free from streaks. Even le leave the front of the house, let the, windows wait until then or a cloudy day rather than have them look as though half cleaned. First dust the windows inside and out, using a small paint brush for the crevices and corners of the sashes. Wash thoroughly the ashes and woodwork around little as possible of it touches the glass. Wash the woodwork on the outside of the window, as that is usually very dusty and should always be cleaned before the glass is touched Have a smalll flannel or cotton efor wip ing. Never use new cotton for this purpose, for without exception it is the hardest kind of cloth for drying windows. Have a basin of pretty warm water, the hotter the better, With into it put a few drops of ammenc oughly, using a small pointed stick for the corners (some save a wooden skewer for this purpose), and if the water is very hot, wipe immediately, for with hot water the panes wipe much easier and dry rery quickly. Clear hot water without ihe ammonia may be uted, and will do the work very well, but the ammont makes the work Some use a few dro 3 of kerosene in place of the ammonia, ind claim it as excellent.

Wash the inside of the glasi first, so that when doing the outside any speck or streak may be easily seen and removed. Windows balf the time in which they are usually done, and look much better.

## Ignorance of Girls.

If a girl never hears a word about economy from her birth, and is only conscious that to secure the means to gratify her slightest wish she needs only to stretch outy her hands and they will bo marriage filled, how can oue expect after marriage that she cau have the rale the duties that must belone to her in the care or her househola? shot ing about her called upon to know avying about her own expenses. With with thought that wanted she bought without a ther could it might be well to lar woney came how afford the money. How money came has it was always ready for her been were que tions tha to and taught that she
stand the answar teaching she has ever re As far as any teaching she has ever re celved, she might imasine tbat money grew in the woods, and her father had it gathered for her as wantet-and of course her hus band would do the same. No education be fore marfizo With such a girlhood, fre fron.rational. With such ar ber from evertification, what reason can ther sonal graticis if the makes many mistake be for surprif they are not irremediable Duy was something never mentloned to Duty was sometha her when a hrl. Aisior into his busines band gives herions to filks, ho cansults or advises with ber about their mutual expenditures. The same about heir mutual expenditures. the same cruel love and indulge her in her naw home difference contines to be left in utter and thus she contiaues to be knowledge, simply a toy, a butterfly, seeking only sunmply a toy, a butterfl, seeks.
And yet under proper training what a nole specimen of womanhood she was per-保 Ward Beecher, in New York Star.

## Fashion Notes.

Bustles are slowly but surely diminishing in size.
Black lynx is a good fur to trim a long
seal garment with. Thrre is a growing tendency, says th
Sectson, to wear the hair low on the netk. Red and blue combined in wool dresses so
nuch lised in autumn are fashionable for much
winter.
Water-proof enstumes to take the place
of the unly water-proof mantles areoming of the ugl
in style.
The new seal sacques and paletots are
beautifully curved in the back seam to fit beautifuly curv
over the bustle.
Cross fox furs are very becoming, the
brown bard or crossings on the yellow hav-
The prettiect. fur border for a black plush wrap trimmed wit
but it is not cheap
Stoles and boas of bear or wolverine fur,
with muffs to match. are affected with muffs to match, are affected by youn ladies who dress in English styles.
The lony seal wraps of this seasun are un usually elegant, especially when trimmed,
as many are, with Russian sable, unplucked as many are, with Russian sable, u
otter, or the finest grades of lynx.
All shades of yellow, from the beautiful
creamy primrose and corn colors, and gradcreamy primrose and corn colors, and grad
ing from orange to the most pronounc ing froth orange to the most pronounced
eopper dyes, are nnted ia fabics for full
dress wear and for expensive millinery. dress wear and for expensive millinery. All street $j+$ ckets have some sort of braid-
ing. The handsomest show tinsel braieing on the wasitcoats, but very popular are
those of dark blue, edged all around with hoso of dark blue, edged all around with ing of rich and heavy design.
 quills, A rery pretty and simple dress is of Gobe-
lin blue Msnmere, the plain skirt trimmed
with $p$ deep row of brown braiding of the with p, deep row of brown braiding of the sert that comes with patterns ready to be
arpliqued. The loaz curtain draperies are
of the untrimmed cashmere, and the plain
 pligued bark and frwint in V sha
lur and cuffs Deing also braided.

The blood is the source of health. Keep pure by taking, Hood's Sarsaparilla, which is peculiar in its curative power.

## The Young §oiks.

Oh, Bold is the Frost.
Oh, bold is the frost that comes nipping and nippinf
nd panting the woodland over. And parnting the woolland over.
haze haze
That hangso or the distant cover,
nd the thin crispy oir tho
fair
Oh, bold is the frost that comes tipping and

At lifty crown cares of the breeze
At evary cares of the breeze.
And the woodland perfume and the grape's The world's weary senses appease.
Ob, bold is the frost that comes sippling and The biping of the summer away
and the ender ounshine of Mas;
And trelils every heart with dismay.
Oh, bold if the frost that comes dipping and Its hipping in each river and rill,
some wiles bright smiles and frolioAnd bids their blue wavelets lie still. And withers the valley and hill.
Oh , bold is the frost that comes gripping and
With fipherg so bitter and cold.
Oh, hulp those, good Lord, when
abroad Who have neither labor nor gold:
For the rich in their , tealth they garner
With grimneess that cannot be told. -Elizabeth Baker Bohan.
"Not all In vain is the legson trught
That a krent soul's dream to the worla's new That a kreet soul's dream is the worla's new
thent ht the sonffold marked with a death sublime And the sounfold marked with a death sublime
Is the throne ordanted fure coming time.".

## YOSEMITE.

The Sublime and Beautiful--A Wealth of Grardeur Defying Adequate Desoription.
How much has been said, and yet can be said, about Yosemite, this wonderful relic of nature's architecture. I shall not think of describlog it. The task is too great, and my words are too week and fall infinitely short of the grand reality.
Yosemite should be studied well. I saw It but two days and can only give a few transient impressions.
Yosemite (meaning grizzly bear) was the name of a tribe of Indians, who in 1551 were very hostile. It was while the whites were pursuing them that they discovered these wonderful mountains.
We stood on the rocky precipice of Inspiration Point and looked down into this stupendous chasm as one views a city from a
towering height. Across the gorge were mountains peaked wilh snow, while beneath us was the narrow, sparkling stream and meadow, closed in by granite walls from smooth and perpendicular that one walls so climb out but at one or two places. There is an unbroken wall of granite two-thirds of a mile high, on the top of whitch is a gigantic red-wood trie, which looked to us
like the merest twig. These measureless walls are of many coloro, brown and white mixed, gray, and red, with a still darker shade formed by streaks of falling water.
The hills though almost upright are clothed with immense firs and cedars, some of which shoot up as stralght as arrows.
It is with a bewildering sense one gazes at all this as it bursts upon him for the first time; there is no adjective, no exclamatio 1 can think of to express the grandeur.
Riding for an hour and a halt down, down amid sharp rocks and dizzy inclines, where we found it hard to keep our saddles, and
sometimes narrowly escaped pitching over sometimes narrowly escaped pitching over
our herses' heads, wo found ourselves in the valley, the length of which is nine miles and its average width two-thirds of a mile.
The M-rced river, which averages sixty feet The M-reed river, which averages sixty feet
in width, runs through this, fresh from the In width, runs through this, fresh from the
Sierras, and it a dellightful stream, so perSlerras, and is a delichtful stream, so per-
fectily clear that nem rous trout may be sern at a yood depth. Crossing it by a litthe rustic bridke, we are in a levrl mpadow of tall grass colured with myriads of wild flowers, including the honeysuckle, primroses of crimson and yellow and a lily-
shaped blossom of exquisite purple, the name of which I have forgotten.
The rocks are the greatest feature of the Yosemite. When you look at xine miles of solid granite wal!s, ranging from three to six thousand fret, it is with bewilderment. You are overwhelmed with their solemn Immensity.
Cathedral Rocks, Sentinel Towers, and Saint D sme, which is a mile high, the gigantic North Dome and the Three Brothers, which is a triple-pointed mass of granite, all these have vegetation, hardy trees apparently growing out of the rocks, some of whlch have been there thousaads of EI
EI Capitan, however, is the grandest of arass can climb thats clean-cut face. No wall There it stands in its massiveness, indestructible. The Spanish name siguifies "the leadcr."
I shall not linger on details, but try to give you a little idea of Yosemite falls. There are three of them. The upper one But just; rapids, 434 feet; lower 600 feet. But just think of a cataract or cascade fif nearly a half miler than Niagara, and for neariy a haif mile without a single break We did not venture to the rapids, as it. is very difflcult and fatiguing undertaking.
For four or five hundred fect the fall of the water is uudisturbed, then striking broad, inclining rock, it shoots over it and spreads into a huge shining fan, and rushes to the bottom. B.idal Vail fall is much narrower, and the mist hides it som + what, though when the sun shines on this suift mist., it revealy a beautiful rainbow. The valley breaks into three canyons, and the Mferced into three branches; one, the North fork, passes through Mirror Lake, a shee ency. The refliction of krass, trees, mpun $t$ liss and 10 so purct, moun ling, as you fancy they are more than luw ages and shadows. Tho world seems turned
and ages and sh
About two miles from the hotel we lef ur horses, as it is vory diffeult of access The trall is narrow, and rises over a thouand feet to the mile. Forests of great pine rees, some over 200 feet high, were al around us, and here and there a mighty cedar towering above all, a guardian sentinal solemn and immovable. Persevering an hour and a halt longer, we climb to Ver nal fall, the full swelling torrent of the Merced.
It rushes and roars like a maddened leap of ther rocks and cra
In the afternoon when the sun shines it two ralnbows of dazzilifg brightness may be seen at its base, and as the mist or foam athers the two bows come together and hen extend to a perfect circle. Thls is what is called the Round Rainbow. It lasts but a moment when it suddenly disappears ike the snuff of a candla, but after an interval of five to eight minutes this lovely loop of kold, crimson and purple comes again. It was so Impressive and fascinating that we stood and watched it for half an hour, and when we turned away it was with hearts ull of humility and reverence for Hlm who made all things.-M. R. Abbott.

Interesting Soraps.
An Ohio tame crow Las lived to pass his 32.1 birthday.

A Boston barber has retired after sixty years of service.
Japan keeps a standing army of 50,000 with 200,000 reserves. They carry the breechloader and drill more than any men in the world.
To be free-minded and cheerfully disposed at hours of meat, slefp and exercise, is one of the best precepts for long lasting.-Lord Bacon.
Those that place their hope in another world have, in a great measure, conguered dread of death, and unreasonable love of ife.-Atterbury.
The skeleton of a man was recently found In a thicket on the battlefield of Antielam and by its side the scabbard and blade of an flicer's sword.
It has been proven through a series of expcriments that a large ocean steamer gotwo milles after its engines are stopped and
eversed, and no authority gives less than mile or a mile and a half as the required pace to stop its progress.
Asbury Park boasts of a pet dog who ap pears on the broad walk with a dlamond collar. He is a Maltese pug, and belongs to the wife of a New York broter.
A medical writer on hay fever says t: $e$ English and American people are the mos usceptible to it, and of those, the upper and aitivated classes and the male sex. In the orth of Europe the disease is almost un nown, while in France, Germany, Italy nd Spain it is rare
An apple tree on the farm of Capt. T. J Williamson, in Pleasant county, Va., which has borne ftuit for a number of years, has never been known to blossom. This year the tree is again full of fine, large apples, he strangest thing about which is that the ruit has neither core nor seed.
A. Washington man tells of a quarrel beween two negro boys. The larger boy, with reat volubility, was applying every eort of busive epithet. The younger boy, leaning gainst a fence and steadily regarding the peaker with a sullen scowl, waiting for a "Y. At last it came. "Is you dont? Yes, $I$ is dons." Then slowly and coolly is, you is dem." "All dem tings you say Lis, you is dem."


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opeka,

Senator Plumb has taken charge of the bill introduced by General Logan to equalize bounties.

The Acme Farmer's club, Jefferson county, meet to-day at the residance o Marion Graves, and an interesting pro gram is to be discussed.

The ninth annual exposition of the Western National Fair Association, will be held at Bismarck Grove, Lawrence, Kansas, September, 3, 4, $5,6,7$, and $8,1888$.

The House of Representatives at Washington, has 325 members. Of that number 216 are lawyers and 17 are farmers. There are 16 manufacturers, 13 merchants, 10 bankers, 9 editors, 6 physicians.
From a report of the internal revenue collector for Kansas, it appears that money received for beer stamps in 1887 , greatly exceeded the receipts of 1886 for the same purpose, while the spirit stamp receipts were much less.

## Typographical Errors.

A correspondent, Mr. Grover, calls attention to some errors which appear in the printing of his article on "The War tariff". It is unpleasant to have one's language tl us handled, and we regret it exceedingly. The meaning of the writer is clear, however; so that he will not be misunderstood.
The State Board of Agriculture hold their annual meeting in Topeka, this week, beginning Wednesday evening. and continuing to Friday. An interesting program has been prepared. Many subjects of importance to farmno report of the things done, because the paper will be worked off before the discussion begins. The principal business of the meeting is to elect a Secre tary to take the place of Hon. Wm Sims, who retires at his own request.

## THE INDIVIDUAL MAN.

$\Delta$ correspondent in this issue of the Kansas Farmer discusses trusts, syndicates and kindred organizations, and when he refers to suggestions contained in an article which appeared in these columns some weeks ago under the head-"A Farmers' Syndicate," he expresses a thought which will bear a great deal of thinking about, namels That men lose their individuality, and to a great extent their personal liberty and independence when they become members of a trust. That is true; men do become so wholly absorbed in business combinations as to be practically dead to all the world outside that may have dealings with the organization Let a poor section hand, for instance spt out to find the soul of a railroad company, or to find any one person who is authorized to hear and determine his complaint if he have one. He soon discovers that the corporation 18 a creatur of law, composed of on association of of law, composed of an who hold regular meetings once a year, and whose decisions are exscuted by certain designated officers. Stock holders go to their meetings as individual men, but the instant they organize, the act of a majority of them binds the whole. A majority of the directors determine the policy of the company. And so it is in every case of the kind.
Still, there is nothing new or strange about it. It is precisoly the same principle which decides in civil and political affairs, and in all social, benevolent and religious organizations. Whatever difference exists between the two classes of cases is in degree and not in kind. of votes determines the verdict of the votes determines and minorities must submit. This applies in small as well as in large elections, if the expression is a good one. The policy of the general government is determined by the result of an election; so of a State, a county, \& city, township, a school or road district.
Some years ago-say fifty-there were ittle shops scattered all over the country where mechanics worked making wagons, furniture, shoes, carpets and other things. They disappeared. Wagons are now made in great estab lishments where men are employed by the hundred and thousand, one man working on hubs, one on axles, one on bolsters, one on spokes, one on tires one or bolts, and so on. Shoes are now made in large factories where many persons are employed, every one work ing on a particular part of the shoe All these persons have, to that extent, lost their individuality. The old wagonmaker and shoemaker were absorbed by the new system. So it is in all lines of employment except agriculturs, and it is because of this combining in other departments of labor that farmers are so hardly pressed. They, too, are beginning to feel the effects ofsmall profit margins. Shoes are made cheaper than they were when made by hand, so are wagons and bureaus. And now men go out on the fertile prairies and plow by steam, sowing thousands of acres of wheat in one season, doing nearly everything by machinery, reducing the cost of raising wheat 25 to 50 per cent. How is the small farmer to meet this cheapening of processes in his own calling? How is he to become a "big larmer," and enjoy advantages of large capital in his work? He must join hands with his fellow farmer in some way, so as that farmers may avail themselves of influences which come. with organization. And this is the great problem for farmers to solve. How shall they act so as to get all the good there
is in organization, without wholly losthg their individuality ?

ONE AND ONE ARE TWO.
Nothing in the history of the Kansas Farmer is more encouraging to the management, or more sincerely appreclated by them, than the very general effort among our old subscribers, in these hard, close times, when they renew their subscriptions for 1888, to send with their own names and dollars those of other and new subscribersone each. Never before has this been no common as it has been within the last sixty days. Many are the letters last sixty days. Many are the daily containing two dollars we receive daily containing two dollars ing-"we like your paper.
This, we report, is encouraging. Our gratitude goes out to the workers with these words. The paper will not disapoint you. The man who adds another name to his own in this way, does his part toward doubling the subscription list of the paper, and to that extent assuring its improvement; and when the list becomes large enough to justify it the paper will not only be larger and better than it is now, but it can be made still cheaper. The greater the number of papers the smaller the margin of profit may be on each. One and one make-two. May the good work continue.

Silver and Gold Oertificates.
Statesmen are fast learning what good money is made of paper certil cates based on the precious metals The act of 1878 which requires the coinage of silver dollars in number from two million to four million aunually, was a compromise, and monometalists thought that in a few years people would demand the repeal of the law hecause, they said, silver money would become so plenty and so cheap that all the gold would be withdrawn and everything would go wrong. But they were deceived. The Secretary of the Treasury says he has not been able to print si'ver certificates as fast as people want them It is now proposed to repeal that law and to use silver bullion in place of coin as a basis for certificates. The new bill proposes to allow the deposit at any mint or assay office of gold and silver mint or assay office of gold and silver bullion in quantities not less than five
ounces of gold or eighty ounces of ounces of gold or eighty ounces of
silver, and the receipt thereof of coin silver, and the receipt thereof of coin tender ; to have the existing gold and silver certificates canceled when received at the Treasury; to have no gold coined hereafter except as necessary to redeem obligations expressly payable in coin; to have the bullion received under this act melted into bars and deposited in the Treas iry.
That bill is in the right direction. It is a fair reflex of public sentiment on the money question. The experience of our people in monetary affalrs the last went $y$-five years has been worth a great deal to us. We have learned how to float differ: $n t$ kinds of money at par something never learned before-simply to make it all legal tender in the pay ment of all debts, with the government credit behind it. That makes the money as good as the government.
Whether it is better to use bullion than coin and save expense of coinage is matter for discussion, but we see no good reason for csnceling certificates now out, for they are based on coin that will remain. Would it not be better to let every available dollar of that kind of money remain in circulation? The coin not represented by certine for all coin uses. Certificates based on coin is the best money in the world, and if the existing coin certificates remain in circulation there will be less danger of legislation to alter the coin weights a
now established by law.

Some Plain Facts Abont the Tariff. A good deal of spirited correspondence has been printed in the KANSAS Farmer within the last six months on the tariff, and the reader noticed, doubtless, that some of the writers occasionally referred to what they regard as prejudice. As to matters of fact it can make no difference whether persons have or have not prejudices; and it is well, therefore, to bear in mind always, well, therefore, between facts and opinions. In the discussion by our correspondents a great deal of ground was gone over, with but little statement or agreement as to foundation facts. In order that readers may judge for themselves, we will state a few facts plainly
1.-The primary object of tariff laws is the raising of revenue.
2.-Revenue so raised takes the place of taxes collected directly from the peo ple, and is raised for the same purposes viz: government expenses.
3.-Prices of articles produced in this country are affected by tariff duties levied on like articles imported, according to the relation which the quantity or amount, or 6xtent of the home pro duct bears to the total consumed. To illustrate:
a.-The price of an article which is not produced at all in this country is affectel by tariff duty to the full extent of the duty, as coffee, tea, spices, etc.
b.-The price of an article which is sufficient to this country in quas supply the home market, is not affected by the tariff duty on the like articles imported, as edge tools, builders tools, agported, as edge tools, builders tools, ag-
ricultural implements, cut nails, wheat, corn, etc.
c.-Prices of articles which are produced in this country, but not in quantities or amounts sufficient to supply the home market, or to seriously interfere with importation, are affected to nearly the full extent of the duty or less, according to the proportion they bear to the total consumption of the particular articles, as sugar, cloth, clothing, dress goods, embroidery, etc.
4.-The amount of revenue derived from tariff duties, depends upon the amount or quantity of goods imported, and not upon the rate of duty; more revenue may be derived from lower duties when the importations are greater: less revenue may be derived from higher duties when the importations are less. 5.-With respect to the tariff, there are three classes of economists: One ta vors free trade absolutely; one would lay duties on foreign goods for revenue but for no other purpose; one would so adjust the duties as to afford protection to home industries.
6.-As to the amount of revenue to be raised by the tariff, all tariff advocates favor limiting it to the necessities of the government.

## Exoursion of Hortionlturists.

The occasion of the American Hor icultural Society's meeting at San Jose and Riverside, California, is regarded by the Missouri Pacilic Railway arded by the Missouri Pacilc Rallway company, as of sumcen in to sons going to and from the meeting.
The society is to meet at San Jose, January 24,25 , and 26, and at Riverside, on the 7th, 8th and 9th days of February. Mr. H. C. Townsend, general pasencer agert, of the Missouri Pacific, in response to a letter from Secretary Ragan, gives the full particulars concerning the excursion. A special train will be provided for members of the of the society, leaving Kansas City, Jan. 12, at $9: 30$ a. m. Fare for the round trip for that point, $\$ 60$, sleeping car extra.

Strike in the Ooal Regions. In our news column, last week it was noted that railroad hands and coal miners along the line of the Reading railroad in Pennsylvania, had quit work. The number of men out is given variously, ranging from 40,000 to 45,000 all members of the Knights of Labor. The cause is said to have been the peremptory discharge of a few men by the Reading railroad company in violation of an agreement with the Knights to arbitrate all matters of difference and to discharge no men without a hearing. The president of the company says the discharged men refused to obey orders and were dismissed summarily. The Knights, by a committee, sought an interview with the omied the privilege, the answer being to the effect that any in dividual person would be heard in his own behalf, but that no committee o delegates from the Knights or other organization would be heard.. The strike was not ordered until after these pre liminaries had occurred.

The effects of the strike are very seri ous, indeed; for anthracite cual has ad vanced in price in all parts of the coun try which received coal supplies from the Lehigh region. The day the strike was announced, Philadelphia coal dealers announced an advance, the next day Pittsburg and Chicago followed, and now in many places the price for that class of coal is 100 per cent. higher than it was on New Year's day. The railroad company owns large areas of coal lands and is letting individual op-erators-work them, whenever application is made to do so in the vacated mines, and the officials say they have no trouble in getting all the men they need to run the trans. The Knights îssued an orderin the beginning against evergthing like violence by their members, so that no troubie has yet arisen beyond the abandonment of the mines. The cars are running regularly, but the guantity of coal handled is less every day, and the falling off is so great that thousands of people will suffer for fuel if there is not a favorable change in the situation soon.
This brings up the labor question again in this important phase. The company claims the right to manage its own business in its own way, and that is the only doctrine which can be held good in such a case as long as the company keep within the law and deals justly and fairly with all. On the other hand, the men claim that they and the company entered into an acreement as to certain matters and the company has violated the agreement. Conceding both parties to be right, if such a thing can be; or, supposing both to be wrong it does not, in either case, help the third party-the public outside that relied upon the miners and the railroad men to surply coal as it is needed. And so it is in relation to every strike of that terested but the particular railroad men terested but the particular railroad men and miners who are the direct parties
to the controversy, it would not concern anybody else; but it is not that way, and never is in any such case. People in Kansas and in California-every place where the Lehigh coal is used suffer because of the strike. There is no need now to discuss causes, we must
apply ourselves to remedies. The peopla in their organized capaciiy, must protect workmen agaisnst power of great corporations, and that can be done only by affording ample means for speedy redress of grievances before impartial tribunals and that without ex pense. arailroad companies must be held to rigid compliance with $14 w$, and men who work for them must bave ad equate protection. As it is now, a poor laborer is lost the moment he attacks
a corporation, and simply because of Society will be held in the House of his poverty. It is not because he has or can obtain no standing in court, but he can not afford to pay his way there Every corporation has one or more lawyers of learning and ability always regularly employed, and they have so much legal business on hand that they have docket clerks to keep record of cases in court, and trace and note the various stages of their history. The poor man has nolawyer, and no money to pay one. He must submit to what befalls him and be thankful it is no worse. He needs help and must have it. Means must be provided for his relief. He must have a standing in court, and the government must bear the expense. Then we will have no more railroad strikes that confuse the business of the country, or cause suffering among innocent people.

## Decembsr Weathor.

From Prof. Snow's report of observations taken at the State University at Lawrence: This month was nearly of the average temperature, there having been ten warmer and nine colder Decembers in the past twenty years. The rainfall was more than 25 per cent. above the average, and the cloudiness and wind velocity were slightly aboye he mean.
Mean Iemperature-Twenty-eight and thirteen-hundredths deg., which is 1.18 deg. below the December average. The highest temperature was 60 deg., on the 3 d ; the lowest was 8 deg . below zero, on the 28th, giving a ${ }^{\circ}$ range of 68 deg . The mercury fell below zero on four days. Mean temperature at 7 a. m., 2432 deg.; at 2 p. m., 35.59 deg.; at a p. m., 27.31 deg.

Rainfall-Including melted snow208 inches, which is 0.49 inch aboye the December average. Rain or snow in measurable quantities fell on six days. Snow fell on four days, on two of which the quantity was too small for measure ment. The entire depth of snow was three inches. There was one thunder shower. The entire rainfall for the year 1887 now comp'eted has been 33.84 inches, which is only 0.88 inch below the average annual rainfall of the preceding nineteen years.

Twenty Years' Weather Record.
Prof. Snow has kept a weather record continuously twenty years at the State University at Lawrence. We have requested him to prepare for publication in the Kansas Farmer a statement of meteorological conditions covering the entire period, but treating the years separately, giving such facts and notes concerning seasons, crops, insect depredations, droughts, storms, etc., as are norts.
In reply to our request Prof. Snow encourages us to hope for such a statement soon. In the meantime, we give a few figures relating to temperature and rainfall for the period-twenty ears.
The highest temperature recorded was 105 deg , in $1-82$ and in 1886 ; the average of the highest temperatures for all of the years is 100.6 dog. The lowest temperature recorded during the period was 26 deg. below zero in 1873; the average of the lowest temperatures for all the years is 12.6 deg . below zero. The average of the mean temperatures for all the years is 52.93 deg .
The average annual rainfall, including melted snow, is 34.66 inches. The average number of days on which rain fell is 103. Average annual fall of snow is 22 inches. Average annual number of thunder storms 29.
We learn from Hon. D. W. Wilder, president, that the twelfth annual neeting of the Kansas State Historical

Representatives, at Topeka, on Tues day evening, January 17, 1883. Members of the board of directors will be elected, and other business transacted. Brief addresses, pertaining to subject of Kansas history. will be delivered The public are invited to attend. A meeting of the board of directors will be held at 3 o'clock $\mathrm{p} . \mathrm{m}$. of the same day, in the rooms of the society. All members of th

## Inquiries Answered.

Gaxa-rLows.-Please ask through the columns of your paper for the experienoe or
our farmer ccrrespondents, in the use of gang-plows, and to note what make they conider the best.
Evergreen Sebps.-Can you tell me where I an get evergreen Beeds, Buch as pine and
cedar, and the best way to grow them? -J. W. Williams, Hoyt, Kas., Bailey \& Hanford, Makanda, 1
seed advertisers.
Mbadow OAt Grass.-A correspondent wants someboay's experience with meauow oat grass. aDr. Robson, of Dlokinson county,
has written several interesting letters to the KANSAS FARMER on the subject, and this re quest will, we hope, call him out again.
Fisk.-Referring to the fish pond question in Che Kansas Farmer last week, Dr. Bohrer, atand that to explode a very few dynamite cartridges in a pond will kill fish, turtles, froge
and snakes, all of whioh hot hoild get rid of
het before putting in carp. Let him get some one manage it.
MAMMOTH CLover SEED.-I would like to get the address of a Parmer that has Mammoth
clover beed for sale which was raised in Kan siover seed for sal
sas the last ye ar.

- You will find an advertisoment of Mammoth clover seed in the Kansas Farsizr thif week. Mr. Edwin Snyder, of Jefferson count
(P. O. Oskaloosa), raises Mammoth olover an may have seed.
Transportatron.-Our opinion 18 asked as
to whether wo favor a transportation system to whether wo favor a ransportation system
whiloh will furnish oarriage ${ }^{\text {at as neara nom }}$. hhith will furnish oa,
mal cost as possible."
- Yes. We would have the transportation colly as the country oonduoted as systemat people carriage at actual cost as nearly a oould be estimated under any general system. Black-leg,-A reader sends the following When the animal begins to show signs, kio it and tie up short; hide a sharp knife, and
which leg it kicks the most outa small gash in

WEAK MARE.-I have a mare that has been
bred three years in succession. The first two oolts came alive, but so weak they died a fou
hours after; the last one came dead. If any of the readers
reatly oblige.
-The mare was not strong enough to pro duce healthy offspring. She was worked to hard, or did not have the right kind of food, or not enough of it. To ge
must be well cared for
SORE TQNGUE.-Please answer through your
paper what is the trouble with my mare. Her tongue seems to have listle sores on which
seem to be eaten in the tongue. When the seem to be eaten in the tongue. When the
bridle bits are in her mouth sho slobbers very
badly and keep lioking her tongue. The mare
is in good flesh, feels well, and works all the is in
time.
-There is something wrong about the teeth -projections or foreign substances which out the tongue; or the trouble arises from weeds in
the which blister the tongue. Examine the teeth carefully; you will probably find the irritant there.
Sub-Iritaation.-I have been noticing the would call sur-irrigation with small drain til-
ing laid in rows sufticient to oreate moisture
at a din ing laid in rows sufficient to oreate moisture
at a depth below the plow, and kept supplied
with water from a tank and wind-mill. Now
ask, wid you ever hear of the experiment? ask, did you ever hea
have a nind to try a
season in that way.
-We do not know of any plan just like that in practice. Some horticulturists use iron or particular places where water oan be let out particular plate
at pleasure.
Grape Vings.- I have some grape vines
seven years old that have not been plowed for Grape
seven years old that have some grape vineen plowed for
the last two years; have mulched them with
stable manure and straw. But the drought
last last summer nearly killed them. What shalli
do to revive them? Plow and tend them, or
what do they do with old vineyards? Tend what do they do
-Cut baok olosely next month; then wait till the opening of spring and note how the
vines behave. If they look siok and weak, cut vines behave. If they look siok and weak, cut
back nearly to the ground, and raise new vines from the stumps if you oan. And in order to be sure about it, set out some new healthy

Fines. All vineyards, old as well as new, ought to bo cultivated every year; not plowed or worked deep, but the ground oug
kept clean and the surface kept fine.
Barran Mare.-I have a mare that I with
 but will not breed. Can some or the reader
of the KANAs FArme toll me what tis the
trouble and whet to rouble, and what to do?
-Such cases are troublesome. The best months before the time of desired coupiting
 ind
feed no dusty hay hand asee that her stable is
oomfortable and free from allofensive odors.
Let exerole be light but frequent. In ehort, bet exerolse be light but fre
bulld up a vigoreus animal. BoNe Spavin. -One of my horses has a lump
on his left hind leg right below the knee joint
on the inside; it is about one and a halfinines broad through and about three-furths inch ame after hard pulling or driving.
-It is bone spavin. If it is not too far adof poultices and blisters. Fer the frst dey of treatment bathe it frequently with warm ter, then apply a poultice of oill meal, soft and
warm; continue poulticing several days until warm; continue poulticing several days uatil
the enlargement beoomes softeri then apply
a liniment, twice daily-well rubbed in -made a iniment, twice daily-well rubbed in-made
as follows: 3 oz. tincture of odine; 1 oz. aqua
ammonai 1 oz. turpentine; 1 oz. giveerine
Rub well and contion ammonia; 1 oz. turpentine; 1 oz; giveerine.
Rub well and continue application until the
place becomes sore; then grease it place becomes sone; then grease it once a dayy
until healed, and let the animal have parfeot
rest. If the last stage is reached noth Aring seems t
the joint stiff. FisTULA.-I have a 4-year-old flly that has a
gatherjng on her shoulder. It commeneed to
gather about the aoth of Setember lastit is
on the neck about the top of the shoulderon the neck about the top of of the last, it is is
blade and in fronttor on the front edge of the
ahoulder-blade. It gathered and bote houlder-blade. It gathered and broke on the
rixht idide, or rather I opened it, and I though rixht side, or rather I opened it, and I thought
it had rot well; but last week it oommenced again. I amafrald it is fistula. the If Ight side
If any remedy for it. or can tell me what itis, If any remedy for it, or can tell
will ever so much obliged.
-It is fistula and must have prompt attenon. An incision must be made deep enough kapt open and washed until thoroughly elean
nn healthy. If the bones have become af-
Pected they must be removed. The cut must be low enough to allow the pus to flow out as
it forms; a tape must be inserted to keep the
wound open, and the cavity must be syringed
daily with some stimulating wash Wound open, and the cavity must be syringed
daily with some stimulating wash (chlorloo or
finc $1 /$ dr $^{\text {dr }}$ Water 1 qt is is good). If there is no
veterinarian near ask the best gurgeon you rea acquainted with how to perform the needed Statistics.-There is oomplaint made by some men against the statistics by the law required It is claimed that those statistios in
sorg.
regard to the amount of the various crops are
made use of by grain gamblers and speoula-
tors to control prioes. made use of by grain gamblers and speoula-
tors to contro proes. Quite a number of
farmers in this vioinity have refused to give
ar- etatiatipal information on this account.
Witis Will you give us somo information on the uses
of this statistical informattion? And is there
iny truth in the assertion that it ny truth in the assertion that it place farm-
ers at a disadvantage when they oome to soli
their produce by suoh faots being made pubtheir
lic?
$-T 1$
-The statistlos are required by law for genwithholding the facts, for grain dealers and all classes of dealers in farm produce have all classes of dealers in farm produce have
special agents among the people in every lo-
cality where reports are not regularly made cality where reports are not regularly made
officlally. It is better to give the facts just as
they are, for then, to a great extent at least, they are, for then, to a great extent at least,
we may prevent or avoid frauds by private
speculators. Official reports aro relied upon
Potrirics.-Can't you let politics alone and
write and publish your good and valuable paFrite and publish your good and valuable pa-
jer for the farmers. no matter what party we
holong to?-For I am confldent vou would not bolong to?-For I am confident you would not
have said one word about the President's mes-
sage if a Republican President would have
sent it in. sage if a
sent it in.
we could let politios alone. We could send out a paper every week that would have about as much force in it as a last year's altine work on the farm, about plowing, planting, marketing; about rajeing stook and growing, fruits and vegetables, neversaying a word
about corporate extortion, nothing about corabout corporate extortion, nothing about oor-
ruption in politics. not a word about taxation.
high salaries, or low prices of farm prohigh salaries, or low prices of farm pro-
ducts, never ince intimatigg that corboraducts, never once intimating that corbora-
tins snd trusts are drinking up the life-blnod
of the people, and never suggesting that taxes of the people, and never suggesting that taxes
are unecessarily high, nor proposing any
remedv. Yes, we could send out alifeleas paremedv. Yes, we could send out a lifeless p
per. We could khow by our want of vigor thi
wo care nothing abouthe very things whin
do most. of all concern the farmers. Bu o most. of all concern the farmers. B
what would such a paper be worth? Wh
member of Conkres would care to know wh
it contains? What infuence would suoh a $p$
in it contains? What infuence would such apa-
per have anywhere? What effeotwould ithave
on publio optnion on any subject? Who hp
any respet. for the judxment of
man without opinions? Does the wr

of New Orleans the 8th'j

## fiorticulture.

## KANSAS HORTIOULTURE.

 Addreas of G Y. Johnson, Prevident of theState Hortionliural Suciety, at the recent meeting at Marion.
Twenty years ago a few enterprising, energetic and courageous citizens organized this society amid such difficulties and discouragements as but few are willing to endure. At that time most of the inhabitants were located in a few of the eastern counties which had recently been ravaged by rebels and bushwhackers. Orchard-planting was carcely begun, while fully one-half of the State was yet in the hauds of hostile Indians and trodden by wild buffaljes. The laurels won by the indefatigabl efforth of the early orchard-planter. through the auspices of this society during the first ten years of its existence, turned the drift of the fettered clasg of emigrants and changed the nsme of our S ate from s hissing and a by-word to a name that every true by on is proud of to a name that i cansan lo proud of a nat that is nowhere lighty spozen, but wherever best known is spoken with pride. N
other element aside from its good gov other element aside from its good gov ernment has done half so much as the aociety to reden brightest star in the constellation of States.
IIorticulture has became a well-settled and profitable industry, far beyond what was at the time of the organiza tion of this secirty ennsidersd the ex treme limit to cultivation of the mor onmmon cereals. So marked has been the fuccess in our noble calling that settlers have been stimulated to pr-ss even beyond the western border of the State, into the adj icent plains of eastern Colnrado, and these people, from what I can gather, (Prom conversing with them), are expecting history to repeat itself, or rather expecting with the same pluck and energy to reap the same results in the next twenty years that you of eastern Kansas have done in the past. They are, many of them looking to us as a guiding star, and we should not let them look in yatn, if we can do anything to help them. In the name of humanity allow me to intro duce these western frontier penple to your kindly consideration. The worst cases are where there is absolutely no timber, and where corn and cornstalks won't grow, and the leading elements of fuel being sunflowers and cow-chips.
A manual upon the culture of forest trees adapted to that locality might be one of the very best things that could be done for these people; but when, $O$ when is the committee of sufficient experience or discernment to write such a digest and be sure of making no mistake? A document of this kind containing errors might do more harm than good, beside bringing the good name of gur society down from its present high standard. While I think something of this sort ought to be undertaken, it should not be done without care for the good name of our society If these people can only make a success of forestry, that will be one of the greatest aids to other departments of horticulture, and the making of desirable bomes, without which no country can be popular and no State desirable. I spask more freely in behalf of these people, because of my own medium ground betwern them and most of you whose faces I see before the.
Thequestion of our insect enemies should not be. piliser werlocked ar
erument ought to be pusted in the future even if possible with more yigor
crown our efforts with a State. Ento mologist.
The suhject of our last past light fruit crop is one worthy of our most searching inguiry. and if the true cause can be rightly determined and a remedy devised it may be very gratifying to us in the future whenever like circumstances again occur.
I would, however, suggest that we may have but little cause to grumble at our light fruit crop, because, have we not our trees left? Three months ago I visited a gentleman to whom I had sold three hundred apple trees about eighteen years ago. All that was left was Kawles Ja'et, Willow-Twig, Talman's Sweet, Fameuse, and a summer variety undetermined; these, however were well loadrd; the Winesap. Ben Davis, and other popular sorts being all gone, yet the owner said this orchard had paid him well and he was going to plant another. Then why should we be in the least discouraged?
I have recently been told by a gentleman who visited the interior and ary regions of Russia of fluding therein one instance an orchard of twelve thousand apple trees, with well and water tanks at the highest points from which each tree was twice watered during each summer, he thought about one and one half barrels of water to each tree, about June and August, the frst, accompanied by a system of mulching to retain the moisture. That plan might be of use to usin Kansas.
Within the last few months I also met a gentleman from Arizona who is perfecting a system of sub irrigation through pipes laid one foot or more beow the surface of the ground, the claim being that water can be let out in small quantities as desired to the roots of trees or other growing plants, and that more than twice as much water would be necessary when applied to the surface of the ground.
All these questions of applying and retaiuing moisture in the soil are questions that you should carefully study, so that correct cococlusions may be arrived at; yet after these questions are settled it may be found that moisture in the atmosphere is a more valuable element to the horticulturist than moisture in the soil.

HORTIOULTURE OONNEOTED WITH FARMING.
Address of Mr. Reynolds, delivered before
the State Horticultural Soclety, at the December meeting, 1887.
It is here in Kansas, where the climate is genial, the soil fertile, and the people industrious and intelligent, that agriculture as a science, and horticulture as an art, are destined to reach the highest form of development and perfection of which they are capable. Every variety of the natural products of the soil, from thuse of semi tropical growth and luxuriance, to the simple blossoms of the borders of the snow ine are found in this favored land.
While horticulture may very properly be dissociated from farming when it is made a specialty-when new varieties are to be propagated and tested, when experiments involving much time and expense are to be made, and when tender and expensive plants are to be reared; nevertheless, horticulture in the common acceptation of the term, when it implies the production of fruits and vegetables for the health and comfort
of the family, including, possibly of the family, including, possibly.
nough shrubs and flowers for home adormment then farming should ney+r e separated from horticulture. Thdivorer wiuld be fraught with only privation and misfortune to the farmer ready been presented to this society at ready been presented to this society at
former meetings, and more could be

When every farmer shall become a horticulturist in the true sense of the term, then Kansas will be distinguished for her beautiful homes, for the intelligence, integrity, and morality of her people; and this once wildervess of prairie will be made to blosson as the rose, and will become. in reality, terrestrial paradise.
Will it pay? is a question which is always interesting to the American mind, and sometimes paramount to all others. Will horticulture connected with farming pay? In answering this question, allow me to present a few facts which came under my notice the past season. As "facts are stubborn things and figures never lie," and as sppak " by the card." why, I am sure, you will give me your attention for a short space of time. I know an industrious farmer living in my township who, the last season, raised wheat, oats corn and potatoes, and he cultivated al passably well. In consequence of the drought and chinch bugs, his wheat was a failure; his oats were only fair his corn only nubbins, and not many o hem; and his potatoes did not mer than pay the cost of seed, digging and
marketing. As be had no orchard, no small fruit, and no hirticultural pro--ducts to sell. his income, as may be seen, was reduced to the lowest mini mum, and himself and family reduced to much privation, or driven into debt Now, I take it, this farmer is butone 0 many in Kınsas, and pight be called a presentative of a large clage.
Not much more than a mile from the farmer just mentioned, was another with no better land, no better weather and no better farm crops; but he possersed a fine orchard which was ful of good fruit. I visited this orchard in the last week of August, and could but admire the fige crop of Jonathans Ben Davis, Missouri Pippins, and other leading varietiea. In short, the income from this orchard, which was not over ten acres, was sufficient to keep his family in somfort a whole year This man, I am happy to say, is also a representative of another class-a class which connects horticulture with farm ing. Ask him if it pays?
One year ago I gathered and sold from a five-acre orchard planted in 1858, some 200 barrels of fall and winter apples besides several wagon loads of summer and cider apples, the whole amounting to a sum equal to the value of fifty acres of other crops grown on the same farm the same year. I can add my testimony to many others that horticulture connected wit

## and cents.

As it is the intention to make this paper entirely practical, ignoring all theory and speculation, I will present a few suggestions to those intending to
plant fruit, as well as to those already owning apple orchards and other kind of fruit. Having had occasion to visit a great many orchards the past season, for the purpose of coblecting fruit for display at the two great fairs of Kansas the Western National at Bismarck Grove, and the State fair at Topeka, I will now present the result of some ob servations made on the several orchard visited.
Where trees were given plenty o room, say from thirty to forty feet apart, tbe fruit was larger and the trees generally in better condition. The opposite was true of orchards where trees stood In such orchards the fruit wes spart und the tres in a sickls such orehards the limbs and branches iuterlork, preventing a suffciency of sun and air to color and ripen up the
fruit. As the roots spresd equal to the
branches they also interlock each other, thus reducing the plant food for each tree almost or quite 50 per cent. It is, therefore, recommended to plant apple trees not less than from thirty to forty feet apart. -
It was noticed that orchards that were kept plowed, and the ground well tirred between and around the trees, suffered less from arrought, and dropped their fruit less than trees in neglected orchards. The only way to continue bearing apple trees healthy, vigorous, and fruitful, is by giving them full possession of the land, good cultivation, and supplying a suflicient quantity of manure to ketp up the fertility of the oil. The neglet to meet the e requirements is, in my opinion, the main cause of the premature decesy of many of our ald crchards. D-caying trees at twenty years old, with proper treatment, ought to have been in their prime at twice that pge. Mr. Goodman, Serretary of the Missouri State IIorticultural Society, strongly emphasized this fact at the October meeting of the Missourl Valley Society. Hestated that bearing orchards in Missouri were suffering and decaying for want of cultivation and ertility. IIe said that no other crop hould be planted in the bearing orchard, not even clover, for it extracted more rom the soil than it returned. Tha few rchards that he found well-cultiyated and cared for stood the drought well, nd bore comparatively gond fruit. I was more than ever confirmed in my opinion, previously expressed bsfore this society, of clean culture for the bearing orckard.
Another great damage to the treps, and one that has often been referred to, s the practice of turaing hogs into the rchard. I have known several fine rchards to be completely ruined by his practice; and the owners are generally unwilling to admit the evil until too late to apply the remeay. I have in mind an orchard bearing fine fruit two ears ago. Since then a large number of pigs and hogs has been kept there rooting up the ground, exposing the ootlets to the scorching rays of the sun, tramping the soil when wet, and packing it as hard as the traveled highway; besides the injury done to the trunks of the trees by rubbing and chafing the bark. When I visited this orchard last summer expecting to get fine specimens, as before, of the Porter, D ominie, Maiden's Blush, and other sorts, not a specimen worth gathering could be ound. While young pigs well-rung may not do much damage in the orchard, the safer and better plan is to exclude them all, and rultivate the soil with better implements.
The varieties that appear to be doing the best in the eastern part of the State are the Jonathan, Maiden's Blusb, Huntsman's Favorite. Ben Davis, Rome Beauty, and Missouri Pippin, all of which are good bearers and very marketable. Several other sorts are doing passably well. Of varieties that are unsuitable for our clımate and that are either failing to bear fruit, or are dying out, may be mantioned the King of Tompkins County, Grimes' Golden, Winesap, Yellow Bellfower, and Romanstem. These varieties are referred to as having come under my especial otice the past season.
Of strawberries the Crescent, fertilized with the Downing, stands first for production; the Miner first for size and beauty, and the May Qieen for weetness and richness of flavos. For ull information relating to the strawberry and its culture. and nther berries, read the report of Mr . B
committee on small fruits.
O:-grapes I found the $C$ ine ord still the favorite, and maintaining its claim to be the grape for the million. In Douglas county most of the ald
cherry orchards are dead and gone. In order to keep up the supply of this fruit, the farmer must " keep on planting." The successful varieties are the Early Richmond and English Morello.
The Soyder blackberry was mound to be the general favorite on account of its hardiness and freedom from summer or winter-killing. Of all the kinds and varieties above recommended the farmer should have a full supply for his own family, with some to spare.

There is one class of farmers to which I would particularly appeal. I mean that class known as stock-raisers. As a rule they are well-to-do farmers and abundantly able to supply themselves with the necessaries and luxuries of a good garden and orchard. But it is a notorious fact, as a rule, horticulture has no claims on their attention. All their efforts are bent in the direction of the development of the fine points of an animal. Neither time nor expense is
spared in bringing an animal to perfection, while there is no care of, nor taste for, the production of luscious fruits and health-giving vegetables. It is all right for farmers to be specialists in their particular lines of production; but no farmer can afford to deprive himself and family of the benefits and blessings of the garden and orchard, when those benefits are so readily acquired.

It may be that some farmers are deterred from growing fruits on account of the many enemies which attack and prey upon it. But are not agricultural products quite as subject to insect attacks as fruits and vegetables ? Wheat is surjoct to the wevil, rust, the chinch
bug, and the Hessian fly; oats are liable to rust, or to be destroyed by the chinch bug; corn is often cut short by drought and chinch bugs, and the potato plant is often eaten by the Colorado bug. What sensible farmer would cease to sow and plant in consequence of these contingencies ?
The horticulturist, however, is not without his friends, and they are legion. Tha birds are his friends, keeping in check myriads of destructive insects. Many of the insects themselves are friendly, preying upon others that are onemies of plant life. Even toads and frogs are allies of the gardener, helping, as they do, to destroy worms, bugs
and slugs. It is a great mistake to consider them injurious to the garden, or in any sense as being poisonous. They are not only harmless, but decidedly useful. Although they are now taking their long winter nap, in a few weeks
they will come among us and make the they will come among us and make the
welkin ring with their nocturnal music. Finally the Giver of all good gifts who " flleth all things living with plenteousness," and has promised that "seed time and harvest, summer and winter shall continue to the end of time," is
the best of all friends, supplying every needful thing except our own efforts.

## Salt Rheum

With its intense itching, dry, hot skin, often broken into painful cracks, and the little watery p.mples, often causes indescribable suffering. Hood's Sarsaparilla has wonderful power over this disease. It
purifies the blood and expels the humor, and purifies the blood andexpels the humor, and
the skin heals without a scar. Send for book containing many statements of cures, to C. I. Hood \& Co., Apothecaries, Lowell,
Mass.
Many swine-breeders regard a solid earth floor the best for a pig pen. It must be high enough to be readily drained, so as to be dry
at all times. It is also customary with some at ale tirses. remove fron, six to eight inches
creeders to
of these earth floors every spring, drawing the manure-soaked earth on w the, fields and revewing the floor with fresh earth.

## Che Youltry Yard.

## Points and Breeds.

Editor Kansas Farmer:--I am glad to see the interest manifested in the poultry department, but I notice there are some who are not studying the standard very closely. For those that do not sell for pure-blood it does not make so much difference, but when a man advertises and sells at a good price, a person expects to have fowls that will compare favorably with any he may run in competition with. Having been in the business for twelve years, I have seen some fowls shipped that gave utter disappointment, which soon cools the interest of the beginner. If I had a Leghorn rooster with a comb that measured five inches, I should consign him to the pot. We all know that a large comb and wattles are in the way and are only fit for a hot-house, for no chicken will lay with a frozen comb. That is why they bave bred Leghornis with a rose-comb. But I prefer a single comb with medium-sized comb and wattles, and keep them in the hen house during the cold days. If prop erly taken care of they will give good result in winter as well as in the summer. Poultry pays as well, if properly taken care of, as anything on the farm. There is no one breed that is perfection. Some are best for one purpose, some for another. Then again one tires of seeing the same chickens year after year; so most of us change from one breed to another, and when one gets a gie specimen at a fair price he takes extra pains for awhile and gets extra results, and is apt to conclude that is better than our old stock, when sometimes it is only the extra care. But extra care always pays. in the end; for you soon learn their peculiarities and consequently their wants, and when
get good results.
M. W. Waltmine.

Carbondale, Osage Co., Kas.

## Imported Eggs.

The improvements that are made in methods of transportation is the striking feature of this nineteenth generation. In future history it will probably be called the "transportation age," owing to the immense improvements that we have added to the comforts of the human family in this direction. The progress of our country is in a great measure due to the facilities with which one part of the country can communi cate with the other. The effect of this has been that droughts and famine in one section is met by the more abundant crops of anotner. The Western dant crops of anotner. The Western
farmers, where land is cheap, and population scarce, have reaped a rich benefit from the conveniences they have for reaching the more thickly populated sections of the East and of Europe. This is particularly noticed with such This is particularly noticed with such
crops as wheat, corn, and the products crops as wheat, corn, and the products beeves, and dairy goods.
When we come to consider the smaller products of the farm that require more patience and minute attention, this new force of improved methods of transportation, the ultimate outlook may not be so discourazing. There are many articles of consumption gathered from the farm that are now superior in quality as produced in the old country, but most of them are
consumed in such small quantities that consumed in such small quantities that
the American farmer scarcely feels the competition. With the egg and poul- open one.
An article from the New York Herald, quoted in last week's American Dairyman, causes us to pause and think a minute. In 1884 there were $14,400,000$ eggs imported into this country, and in 1885 this amount was raised to 18,720,000. Last year the price of eggs fell so low that home competition seems to have checked importation. It looks as though the hens of the country had heard of this new rival and concertedly agreed to lay themselves out, as the horse men say, and they drove their competitors temporarily from the field. According to the Herald there is an avalanche of egge always on hand in the densely-populated countries of Europe, ever ready to be launched upon us when the prices in our market will warrant the venture.
We learn, too, that this egg industry is only just now getting into successful operation on the other side. The arrangements are now being perfected for gathering eggs from Norway, Sweden, Russia, Germany, Austria, Galacia, Bulgaria, Italy, and Belgium, with all the lines centering on Antwerp, where the steamers are to start for this country when the word is given. The modus operandi is thus described: The commission merchant in New York watches the market, and when the surplus is shert and prices on the rise, he cables across to Antwerp, and instantly the telegraph lines are made hoi with dispatches to agents in all the aforesaid countries, and the farmers' wives begin to scurry around aathering up the
eggs, while all the idle steamers hurry eggs, while a'l the idle steamers hurry
to Antwerp for the cargoss, which reach this country much quicker than under the present system, by which eggs can be gathered in ti. 6 West and South and shipped by rail to New York.
All of this simply emphasizes our re marks in last week's issue in support ot Mr. Anderson's report on the egg in dustry to the National B. \& E. Associa tion. He then calls loudly for organization and better methods in collecting and handling eggs, and according to the signs of the times, his warning had better be heeded. While it may be true that the ingividual egg can be produced on a Western or Southern farm cheaper than it can be in Europe, yet, as the spokesman of the Herald says, wher ever there are civilized people there are heus, and it is always the rule that where there are the most people there are the most hens, barring, of course, the central parts of large cities. Where people are thickest it is easiest to collect the eggs, and thus the densely-populated sections of Europe have the advantage of us. At present, ocean freights on eggs are so high, that when the market prices here fall below 18 or 20 cents per dozen, it does not pay to import them, but what day will these freights be lowered? A little improvement in the machinery of vessels may do this. Let those most interested in this matter think it over, for we have a lio

At the exhibition of the American Poultry Breeders' Association, held at Chicago, Ill., November 8, to 18, 1887 Mr. C. H. Rhodes, of North Topeka, Kas., was awarded several prizes from the awarding committee, as follows: On Black Cochins-cock 1st, pullet 1st, 2nd, 4th, and 5th; breeding pen 1st; display 1st.

## "EDITOR'S BAOK STAIRS."

The Interesting Vi:ws of the Late Dr. J. G. Holland.

The columns of the newspapers appear to be flooded with proprietars medicine advertisements. Ad we cast our eye over them, it brings to mind an article that was published by the late Dr. Holland in Scribner's Monthly. He says: "Nevertheless, it is a fact that many of the best proprietary medicines of the day were more successfal than many of the physicians, and most of them, it should be remembered, were at first discovered or used in actnal medical praotice. When, however, any shrewd person, knowing their virtue, or foreseelng their popalarity, secures and advertises them, then, in the opinion of the bigoted, all virtue went out of them."
Is not this absurd?
This great man appreciated the real marits of popular remedies, and the absurdity of those that derided them because publie attention was called to the article and the vildence of their cures. If the most noted physician should announce that he had made a study of a certain organ or disease of the body, or make his sign larger than the code size, though he may have practiced medieine and been a leader in all medical counsels, notwithstanding all this, if he should presume to advertise and decline to give his discovery to the public, he would be pronounced a quack and a humbug, although he may have sptnt hils entire life and all his available funds in perfecting his invastigations.
Again we say, "absurd."
If an ulcer is found upon one's arm, and is cured by some dear soul of a grandmother, outside of the code, it will be pronounced by the medical profession an ulcer of little importance. But if treated under the code causing sleepless pights for a month, with the scientific treatment, viz plasters, washes, dosing with morphine plasters, washes, dosing with morphine, arsenic and other vile substances, given to prevent blood potsoning or deaden pain, and yet the ulcer becomes malignaiit, and ampuyation is made neceessary at last, to saveifire, yet all done according athe isms of the medical code, thls to to the medical prolesslon, and adas more dignity to that distinguished order mother's be cured
remedy.
This appears like a severe arraignment, yet we belleve that it expresses the true standing of the medical profession in rekard to remedies discovered outside of their pecial "lems." One of the nust perplexing things of the day is the popularity of certain remediee, especially Warner's safo cure, which we find for sale everywhere. The physician of the highest standing is ready to concede its merits and sustain the theories the proprictors have made-that is, that it benefits in most of the ailments of the human system because it assisis in putting the kidneys in proper condition, thereby aiding in throwing off the impurities of the blood, while others with less honesty and experience declde, and are willing to see their patient die scientifically, and according to the code, rather than have him cording to the code, rated by this great remedy.
Yet we notice that the popularity of the Yet we notice that the popularity of the medicine continues to grow year by year.
The discoverer comes boldly before the pubThe discoverer comes boldy before the publie with its merits, and prochaise more hon-
door to door in our opinion much mor door to door in our opinion much more hon-
orably than the physician who, perchance, orably than the ohysician who, perchance,
may secure a patient from some catastrophe may secure a patient from some catastrophe, a finger, which he ses with great dignity. yet very which he does with great liberty to climb the the editor's back stairs at $20^{\prime}$ clock morning paper that "Dr. So-and-so was in at tendance," thus securing for his benefit a beautiful and free advertisement.
We shall leave it to our readers to say which is the wiser and more honorable.

The fine plates and machinery in the Bureau of Eograving and Printing are being ruined by the gritty dust blown from the wagons that are being used in filling in around the Washington Monument.

CREAM OF A WEEK'S NEWS.

## CREA B F A W E Y S

 CholeraAmerioa.
Nevada, Mo., raised the saloon license fee to 81,200 a year.
The Illinois Central rallroad is selling 1,000 mile tickets for 820
General E. S. Bragg is nominated by the President as Minister to Mexico.
A man was frozen in Dakota near Grand
Forks. He was exposed in a atorm. Forks. He was exposed in a storm.
Senator Beck, of Kentucky, succeeds him-
self in the Senste. He is elected Senstor the self in the Senate. He is elected Senator the
third time. third time.
A small herd of sixty-one buffalo were driven into southwestern Kansas by a prairie fire in No-Man's-Land.
The President called attention to the suffering condition of Indians on Round Valley resrvation, California.
Employes of Hubbard \& Co., axe manufacturers at Pittsburg, Pa., struck
The Kansas City Borrd of Trade adopted a rosolution in favor of a convention of citizens ing of Oklahoma territory.
The mining men of Montana are becoming The mined over the fact that a vast majority of the public land in the Territory is beingelassed by United States surveyors as agricultural, thus allowing it to be claimed by the Northern Pacifle railway, under their grant.
The authorities at Sloux City, Iowa, refuse to issue wholesale liquor licenses in that elty this year. Besides three regularly established Wholesale houses which have done a business of thousands of dollars a year, there were applications fled by a number of parties who solely to evade the prohibitory law.
A Washington, Pa., dispatch, says: The citA Washington, Pa., dispatch, says: The citizens of Zollarsville and vicinity are considerStmon Bone. Smoke was noticed several days ago issuing from the ground, and in order to ascertain its origin, a number of neighbors assisted in making excavations. When only a few feet down the ground became so hot that the men had to quit digging. It is stated that hot pieces of clay wcre thrown
he smoke has become very dense
Judge Krekol, in the United States District court at Kansas eity, rendered an important Hudson had shipped 378 steers from Benning. ton, Kas., with orders to have them in the Kansas City stook yards the next day in time for the markets. The Union Pacifle railroad guaranteed to do this, but failed to comply with the contract and the cattle were sold the next day when the market was dull, at a loss of 8768 . Hudson sued and recovered the money
The Railway Age publishes a list of railroad foreclosures in the United States during the year 1887, showing that thirty-one differont an apparent capital invested of $8328,000,000$ an apparent capital in bankruptey during 1887. The 4 , cays: "It is remarkable that while by far the greater part of the railway building has been carried on in the wild and presumably reckless West, the old, conservativo and wealthy Eastern States of New York and Pennsylvania fur nished nearly one-third of the roads that had to be closed out during the year, while none of showing of reckless or unfortunato manage showin
At Savannah, Ga., Judge Speer, in his charge to the grand jury of the District court of the United States, called attention to the conflict between the legislature of the United States and the liguor laws of the State of Georgia. Under the State laws the sale of liquor is prohibited in cortain counties of the state, and United States issues Department of the United in these same counties. Judge Speer sugrested to the grand jury that they address the representatives of Georgia in Congress to propose legislation excepting from the operation of the internal revenue tax laws relating to liquor all places where the local law prohibits traffic in liquors.

## Oatarrh Oured

A clergyman, after years of suffering from that loathsome disease, catarrh, and vainly trying every known remedy, at last found a prescription which completely cured and him and saved him from death. Any sufself addressed stamped euvelop to Prof. J. A. Lawrence, 212 Edst 9th St., New York,

A cool cullar aired on a warm day will gather moisture. To avoid this open the windows in the evening. JAMMES FI. CAMMPBFII \& CO., Live Stock Commission Merchants, for trie saie of cattile moos and pirber


Now that sorghum is once more attraeting the attention of farmers throughout the country and has this time apparently come to stay, it is well to know that the Sorghum Hand Book, a valuable treatise on the cultivation and manufacture of Sorghum, may be had free of charge on application to the Blymyer Iron Works., Co., Cincinnati, 0.

## Woven Wire Fenoing,

If you are looking for a first-class fence read the advertisoment of McMullen Woven Wire Fence Co., of Chicago, and see what they offer. It will pay you to write peculiarly adapted to almost any place about the home or farm, and if you are looking for something good in this line this particular fence may be just what you want

## Farm Loans.

Loans on farms in eastern Kansas, a moderate rate of interest, and no commis sion. Where title is perfect and security satisfactory no person has ever had to wait
a day for money. Special low rates on large a day for money. Special low rates on large money mortgages boug
Jones Building, 116 West Sixth streent,
Topeka, Kas.

## Doubt No Longer.

That able and veteran agricultural writer and weather student, J. C. H. Swann, is writ ing the sscond edition of his book, which is from 1847 of recrif a century His crop in the Ka'ssas FARMER a ced His article and the book for six years are proof positive that he is correct in saying what the future crops will be, also the character of the sea sons to come. There will b? arranged comfuture years will be so long as you will need information in that direction. It haa much other information of value. This book will prove a grand, happy and useful surprise to
all who order it. Citizens of townships who club an order, fifty or more copies at once should write at once and learn terms. I you can't send money now, send your ad
dress, and be ready when the bosik is. It
will be ready the 1st of March, 1888 , and al men need it who have hom,s. Price $\$ 1$,
postpaid. Address Neil Wlikie's Bans postpaid. Address N-il
Douglass, Butler Co., Kas.

## THH MAREHTS.

By Telegraph, January 9, $18 s 8$.
LIVE STOOK MAREETS.
st. Lonis.
CATTLLE - Receipts 1,000 , shipments 600 . Market steady. Choice heavy native steers 844 as 10, fair to good steers 83 80a4 45, medium to
choice butchers steers $\$ 310 \mathrm{a} 400$, fair to good stockers and feeders 8200 a 310,
HOGS-Recelpts 4,000 , shipments 1,700 . Mar ket active and higher. Cholce heavs and butchers selections 8555 5 5 75. medium to prime paok ing and yorkers 8520 a5 60, ordinary to goo light grades \$4 90a5 20.
SHEAP-Recelpts 300, shipments 200 . Marke firm. Fair to cholee $\$ 325 a 430$
The Drovors' Jøurnal reports
CATTLE-Receipts 12,000, shipments 4,000 Market steady. Beef steers, $8300 \mathrm{a5} 15$; stook
 HOGS-Receipts 23,000 shipments 7,000. Mar-
ket strong and a shade higher. Mixed, 8515 a
5 s.

 Kanann Olty CATTLE-Receipts 783. The quality of the
offerings to day was mostly market strong and a sbade higher on cows and
steady on dressed beef and shipping. Sale ranged $\$ 360$ a4 25 for butcher and shipping HOGS-Receipts since Saturday 5.000 . Tak-
ing the quality into consideration the market was 5ave higher. Extreme range of sales
$\$ 355515$ buik at i5 20 as 30 .
SHEEP-Receipts since Saturday 246 . Sales:


PRODUOT 楜ARERETS

## st. Louls.

## FLOUR-Dull, and lower to sell.

WHEAT-Opened \& Ilttle lower and fairly
ively: the market fuxtuated but little, olos


 Ohtoago.


Kansas Clty.
WHEAT-Recetptsatregularelevators since last report,
bugheli, leaving sughels; ; withdrawals, 2,500
in store as reported to There was a steady and merely nominal mar-
ket on change to day, with no sales on the
call
of th
elth

## red red win


apecial onevator , gasainst 4te asked regular on
Saturday. On track by sample: No. 2 cash
$41 / \mathrm{c}$ c. TS - No. 2 cash, no bids, 22 o asked. On
OATS
white, cash, $31 / 1 / \mathrm{c}$.
RYE - No. 2 cash nor
H

## HAGEY \& WILHELM, WOOL AND BROOMCORN

Commission Merchants —ST. LOUIS, MO.-

REfERENCES:-Kaksas Farmar Co., Topeka, Kas.; Boatmen's Bank, St. Louls Dunn's Mercantile Roporter, Sti. Louls; First National Bank, Belọt, Kas.

Leve do not speculate, but sell exclusively on commission.

## Kansas City Stock Yards, <br> KANSAS CITY, MISSOURI,



## Figher Prices are Realized

Horo than in the markets East All the ronad running into Kanaas City have direot connoc rraat trazthe ground of Toxas Colorado, Now Mexioo and Kanase, and aliso for trook doe
 there is no delay and no clashing, and stockmen have found hore,
that they get ail their steck is worth, with the least possible delay.


```
frakk. e. short. capt. w. s. tough.
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F. F. SHORT \& CO.

 ought and sold on eommission, by the head or in carioad lots.
In conneution with the sales Market are large foed stables and pens, where all stook will aceive the best of care.
Speoial attention given to reciving and forwarding.
The faolitites for handiling this king of stock are unsur
The failitiles for handing this king of stock are ungs.
Consignassed at any stable in this oonntry C. F. MORSE,

General Managor
T. E. RIGHARDSON,
H. P. CHILD,

# INTER OCEAN MILLS． 

THE STRAY LIST．


FOR WEEK ENDING DEO．29， 1887. Greenwood county－J．W．Kenner，clerk． STEER－Taken up by John Pegram，in Lane tp．
November 5，one red yearling steer，four white feet and whte on belly bush of tail and face white，no marks or brands；valued at s12．
sTEER By Robert WIgsing，In Bachelor tp．，No－
veinber 8，one red yearling steer，no marks or brands； valued at 8 Bi5． marks or brands；Yulued st white yearing steer，no
sTEER－By C．E．Freeman，in Janesville tp．，De cember 23，one 2 －year－old red steer with white spots STEER－By same，one 2．year－old steer of a 1 light
roan color，tips of both ears cut off，no distinct brand． Brown county－G．I．Prewitt，clerk． STVER－By J．W．Gordon，in．MIssion tp．，Decem．
ber 6，one white and red atee．． 2 years old，no marks
or brands visible；valued at 825. or brands visible；valued at 825.
Kingman county－J J．Stevens，clerk． HEIFER－By Davld Glilisple，in Ninnescah tp．
December 1 ，one spotted roan heifer，no marks or December 1，one spott． HoRSE－By J．N．Patton，in Cook tp．，one gray
borse， 10 years old，welgit 1,100 pounds，no brands horse， 10 years
valiued at sio．
Atchison county－Chas，H．Krebs，clerk MULE－By John Sauer，In Kaploma，t．（Arring
ton P．O．），November 12，one bay mare mule， 1 year ton P．O．），Noeember yalued at 860 ． （P．O．Eftingham），December 12，one Grasshopper tp．， white spots on veily，about 2 years old；valued at 81 Johnson county－Henry V．Chase，clerk． HORSE－By T．L．Horner，In Shawnee tp．，one White foet．saddle and collar marks，star in forchead；
valued nt $8 t 0$ ． valued at ${ }^{840}$ ．
HORSE－By same，one chestnut sorrel horse，four white feet，blaze face，right hip down，kuee enlarged，
$151 / \mathrm{hands}$ hlgh， 15 years old，saddle and collar marks： 151／3 hands，hlgh
valued at 815 ．
Cherokee county－＇L．R．McNutt，clerk．
 COLT－By
valued at 855 ．

Ellis county－Henry Oshant，clerk． COW－T Taken up by C．A．Mayhew，in Logan tp．，
December 1，one red cow， 4 years old，no other marks brands；valued at 815 ．
Labette county－W．W．Cook，clerk． sTEER－By J．8．Wimmer．In Elm Grove tp．De．De－
cember 5，one red $i$－ycar－old steer，$w$ mo mlagled red FOR WEEK ENDING JAN，5， 1888 Osage county－R．H．McClair，clerk． STEER－Taken up by James Mabon，in Burlingame

tp，December 6，1887，nne red－roan 2－year old ateer，
no marko or brands；valued at o19． COLT－By same，one 2 －year－old Texas mare colt，
eft hind foot white，branded $R$ ；valued at 820 ． COLT－By raine，one 8．year－old Texas mare colt，
 ber 2d，1887，one red．
brands；valued at \＆15．
Jefferson county－E．L．Worswick，clerk． STEER－By V．F．Newell，of Osawite，December
9． 1887 ，one pale red
2 －year old steer，branded and
righthin．alit in right ear and under－bit in left ear valued at 620 ．
Douglas county－Joel S．White，clerk． STEER－By Jesse Whitman，in Marlon tp．Decers－
ber 7 ， 1887, one 3．year－old red steer，branded on left
hip；valued at $\ddagger 20$ ．
Woodson county－I．M．Jewett，clerk 29． 1887 ，one brindle 3 －year－0．d steer，branded T on left horn．
Wilson county－D．N．Willits，clerk．

MARE－By Frank mic ber 17，1887，one bay mare， 14 hands hytgh，ong body bod pony build，star in forehead，gray hatra，${ }^{\circ}$ ．
head，left hind foot white；valued at 15 ．
Pottawatomiecounty－I．W．Zimmerman，clk STEER－By Joseph Degraw，In MIII Creek tp．，De－
 ber 14，1887，one dark Jrown horse，welght 750 pounds whte atrip in
valued at ${ }^{25}$ ．

Coffey county－H．B．Cheney，clerk． HEIFER－By 8 ．W．Allen，In Liberty tp．Novem－
ber 22， 1887 ，one 8 ．year－old hilfer，branded $M$ with bar
acros horizontally；valued at cross horizontally；valued at 15 ．
Allen county－R．W．Duffy，clerk． STEER－By Jokn Warfed，in Elsmore tp．，Decem－
er 9,1887 ，oxe dark red steer with white under belly， ber 9，1887，oxe dark red
y years old；valued at

Scott county．
PONY－By Wm．O．Brown，In Valley tp，July 18， 1887，ond bay pony mare， 7 years old，white spot in
forehead，white hind feet，branded on left shoulder
valued at 225.
E．M．BELL，J．P．
FOR WEEK ENDING JAN，12， 1888.
Elk county－J．S．Johnson，clerk． STEFR－TTaken up by E．C．Sanger，January 3，1888，
one sterer， 8 years old，red，whin bome white on belly， one steer， 8 years old，red，thit some white on belly，
fannk and face，brand on left hip，and not dlstingulah： able；valued at 820.

Jackson county－E．E．Birkett，clerk． STEER－Taken up by Nicholas Reddy，in Washing．
ton tp．．November 15,1887 ，orie red 2 －year－old steer， With white face，white under bely，brand on right
hit，short tall，no other marks visble；valued at ols．
tis． Wyandotte county－Wm．E．Connêlley，clk． Wyandotte county－W m．L．Con
Cow－Taken up by F．W．Dreger，in Shawnee tp． COW－Taken up by F．W．Dreger，in shawnee tp．
December 7,1887 ，one cow，about io yers old，red
ades，back and belly white，tips of horns sawed off， bldes，back and beliy
and blind in right eye．

Allen county－R．W．Duffy，clerk． Cow－Taken up by w．T．Woods，in Cariyle tp，
December 27,1887 ，one red roan cow， 6 years old，clip off right ear，bind in left eye；valued at $\% 18$ ．
\＄25！\＄25

## TOO CHEAP

I WILL SELL OR TRADE
80 ACRES OF NICE LAND adjoining the town of Wilmot，Kas．Will trade
for Cattie or Sheep．Farm well improved； all under fence．in good condition．
HARDWARE and LUMBER Goods all new and in splendid condition．
Will sell or trade as above mentioned． Address

Box 9，wilmot，Kas．
PURE GERMAN CABP FOR SALE． For stocking ponds．All sizes，from 2 to 10 nche Prices on appication．Hutchingon，Kafise．

1 PIT AND MORPHINE HABIT CURED ，JAS．J．HOLDELE．Y）LIAMSBURG，O
I CURE FITS！ When I say cure Ido not mean merely to stop them
foratime and then hase thana returnagnin．Imesna
radionl cure．Thase made the disease of Fis，EPIF
 Warrant my remedy to cure the worst oases，Because



Suffering from the effects of youthful errors，earl decay，wasting weakneps，lost manhood，eto．，I will send a valuable treatise（sealed）containing full particulars for home cure．FREE of charge．A splendid medical work；shoudd
man who is nervous and debilitated．Address， Prof．F．C．FOWLER，Moodus，Conn．


Manufacturers of the following Popular Brands of Winter Wheat Flour： WHITE LOAF，$-: \quad$ DIAMOND， BUFFALO， OWL，

Ask for these Brands and be Happy．

## CREAMERY PACKAGE 줓 MFG．CO．，

MANUFACTURERS AND JOBBERS OF

## Butter Tubs，Egg Cases，

## and ampral．

## CREAMER

## AND DAIRY

 SUP尸エエ飞®．We carry a Large Stock of Butter Tubs and Egg Cases in our Warehouse，and can Fill Large Orders Promptly．

We carry a Full Line of Cans，Butter Boxes，Butter Printers，Workers，Churns，Pails，Salts，Coloring，and Everything that is needed in Creameries or Small Dairies．

Our Large Catalogue for 1888，will be out March 15th． All parties that are in the butter and egg business or dairy－ ing，will do well to send us their address，and we will for－ ward you our Catalogue when it is out．
Creamery Package Mf＇g．Co．
1408 \＆ 1410 West 11th St．，
KANSAS CITY，MO．

## T. A.FIUBBARD, <br> WELLINGTON, -:- KANSAS,

to the part; wash off the ointment on the second day after apple weeks.]

On clay soils poultry yards may be greatly improved by placing a tile drain two fee below the surface of the yard, and then adding one foot of sand. Treated in this way, drains, and save labor.
Quinine is not an Antidote for Malaria. It creates a diversion by producing a new impression on the nervous system. Shallen berger's Pills are an Antidote; they destroy the poison, and health returns immediately purging, Perfectly safe in any dose. Sold purging, Per
by Druggists

One of the principal causes of heaves in horses is the feeding of dusty or dirty hay Ordinary clean hay can always be fed with safety if properly cut up, molstened and milxed with ground arain, but to feed the musty or dirty sorts is very injurious Clover, owing to its liability to crumble ften gets dirty, even after storage, an should never be fed without being pre viously mulstened.

Consumption Surely Gured.
To the Editor:-Please inform your readers that I have a positive remedy for the above named disease. By its timely use thousands of hopetess cases have been permanently cured. 1 shall be glad to send two bottles of my remedy FREE to any of your readers who have consumption if they will send me their Express and P. O. AdTrews. R-appectfully, T.
181 Pearl St., New York.
If the horse's feet become dry and hard do not use oll or grease, bat clean out the feut, soak them in salt water, putting one foot in at a time in a bucket; and then chafe briskl; until thoroughly dry. After this at night fill the foot with fresh cow dang, wel pressed in, letting it remain in over night, and cluaning out next morning, and washing and chaning as ofiole remeay will generally cations or the a cure.
effect

HUMPRREYS' HOMEROPATHIC VETERTVABY SPFOTFYCS

Shoulder Abscess-Result of a

- write to your veterinaay deKick - I write to your veterinaay department for a prescription for medicine to apply to a bruised shoulder on my 3 -year-old mare. I think it was caused by striking against a tree while in the harness. It will need opening to let out the contents of the bunch, and what I want is something to apply after it is opened. 2. She has also a bunch on the shir-bone just helow the hock joint, caused by being kicked several times in the same place, while in the stable, some three or four weeks ago The skin is calloused to the extent of one-half inch thick and about fou inches in length, and I am positive tha there is a sack of blood or water be tween the bone and skin. I would like to know what to do with the bunch on the leg, as I have formerly had some experience in opening bruises on the shoulder, and using patent liniment to heal with, the nature of which I did not know. [1. When the abscess is opened and the contents allowed escape, inject into the caynty twice daily the following mixture: Carbolic acid, 3 drachms; glycerine, 1 ounce water, 1 pint. Keep the orifice ope till it heals from the bottom. 2. Fo ment the parts three times daily with warm water till all heat and inflammation is reduced. Then clip off the hair from the part and rub in well for lifteen ginutes on ointment composed of minuiodide of mercury, 2 drachms; lard,


## The Beterinarian.

[The parayraphs in this department are
rathered from our exchangee.-ED. FABMB. 1

Weak Fetlock.-My neighbor has a colt, 3 yeurs old, that seems to be weak in his front fetlock jnints; they do there forward when he tries to wal [A plaste Paris bandage should be applied.]
In Growing Horns.-I have a good cow, whose horns I have cut off once a year, until the last time they bled quich dady; and they are noth sides. This time I want to cut close to the head. I there any danger of bleeding too much
and how close shall I cut? [The bleeding usually attending amputation o the horns close to the head is imma terial. Amputate very close to the hairs; it may include a few of those al around. 1

EPILEPSY.-There is a cow in my neighborhood which has Gits-oneabee every three months. She has bee fow of milk. Is her milk fit to use Can the fits be cured? Would she be it for beef? [Epilepsy may be caused by tumors in cranium, tapeworm cysts and other influences, and treatment most frequently unsuccessful. The ex istence of this ailment is not likely to affect the milk or the flesh, so far as the use or consumption of either is concarned.]
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