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## Agricultural Allatters.

FROM TEXAS--LET US JOIN HANDS.
Editor Kansas Farmer:-The great question of the hour is, "How shall we relieve the great mass of producers from the burden of debt, and place them upon a sure road to prosperity?" By the wisdom of God, we are not permitted to see this, all in the same specific light. It is, however, the purpose of this article to lay a basis, upon which if we build wisely, success will be the natural outcome-leaving the detail for future consideration.
Notwithstanding the diversity of products of the different sections of our great country, there is a harmony of interests between the producers-between the Kansas wheat-grower and the Texas cotton-grower; between the delver in the iron mines of Pennsylvania and the fruit-grower of the Pacific slope. We therefore lay down as a margin that there exists "a close and inseparable interest between the producers of wealth," no matter how contiguous or remote they may live one from the other. This being true in fact, it should be so also in spirit and in practice.
The practice and system of farming, like everything else, has been undergoing some radical changes ; and with the ability to and an actual enormous increase in the total wealth of the world, comes poverty, rags, hunger and debt. Behold the man in rags whose toil is building annually thousands of miles of railroad, hundreds of towns and cities, immense factories, producing the iron, cotton, grain, wool, cloth and live stock, and the hundred other things that go to make up the grand total wealth of this great country-that which feeds and clothes their own families, and enriches the balance of mankind. Look again upon the face of the dear creature who has so faithfully clung to the delusive hope that some day the little homestead would be paid for, and that, in the evening of life, she might sing the songs of her childhood to the little one gathered about her knees. Alas! the sad picture! Year by year, while the little farm is yielding abundantly, the net receipts decrease, fade away, are no more, while the interest has increased; and now in the winter of life we see the once happy and hopeful family driven from the little farm to become tenants.
The battle may have been nobly, bravely fought; but friends, was it done in the light of this nineteenth century? Did our hero look about and see why in the face of increased farming facilities, increased acreage, and increased yield, he was yet unable to meet what seemed but a trifling debt? Did he realize that great railway corporations were scheming to rob him of an unjust share of the fruits of his toil? Did he realize that great and favored banking corporations were engaged in schemes to fleece him? Did he realize that every one of the fine-haired gentlemen who stand between the bag of Kansas grain and bale of Texas cotton, had to be fed (stall-fed at that) and clothed in "purple and fine linen?" Did our hero of the small but fruitful farm realize that all the world was organized for "self-interest," and that almost all that "world" in perfect harmony in the effort to fleece the producer? I do not go around to hunt softer words. The whole thing resolves itself into a struggle to get the lion's share of what we produceamounting in fact in many cases to robbery-robbery that produces gaunt starvation and actual rags, viz., when on account of excessive railroad freight charges the people of one section of our country are starving for bread, while
perhaps the granaries of Kansas are verflowing and her people in rags for lack of a market. Friends, this is no overdrawn picture. You, dear reader, know this condition actually existed within the past few years, and is yet a fact to an extent that is robbing you of your homes year by year.
To relieve ourselves of this condition, to bring the farmers of Kansas and the farmers of Texas face to face in the exchanging of the products of the two sections, is the point I desire to make. If we have battled single-handed against these gigantic combinations of men and money, and have failed, as we know we have, let us now reverse our methods; let us organize. This is the plan that has brought success to every other class. Let us organize. Let us work to get the greatest body of producers into line of battle, into one line under one banner, under one leader, with one general purpose to ameliorate our mental, moral and financial condition. With one general purpose, one general plan of action, guided by one general head, governed by wisdom and justice, success is within our grasp. Where shall we find such an organization? is the question you would ask, and I would answer, the Farmerss' alliance and Co-operative Union. To be concluded next week.)

## BAILEY TO MOHLER.

Editor Kansas Farmer:-I see that Mohler has come back, but 1 feel slighted and propose to do a little kicking. Now I do not think it was fair for him to devote a long article to brother Elder and leave me unnoticed. When I. wrote the article I expected a "diff" and as I did not get it, it hurts. The only logical conclusion I can come to as to why I am thus treated is that he dared not touch it. It can not be that the article was unworthy of notice, for I have bean complimented upon the same by quite a number from different parts of the State. I say that a man who will seriously contend at this day and age that supply and demand regulates prices is off and badly off. I hold as incontrovertable that the volume of money has more to do with prices than any other one element. That if we increase the volume of money prices will increase, and if the volumeis contracted prices will contract. If that is not a just conclusion I would like some of the great minds to show wherein it is wrong. But for fear they will continue o treat me with silence I will give a lew quotations for them to chew.
John Stuart Mill says: "If the whole volume of money in circulation were doubled, prices would double."
Richards says: "That commodities rise in price in proportion to the increase or diminution of the money, I hold to be a fact that is incontrovertible." Prof. Walker, of Yale, after showing the effects of contraction, says: We have become so familiar with these periodical revolutions in trade that we look upon them as the natural phenomenon of business, but it is not so." Of course it is not so, and it does not take a man with a very extensive
brain to see it unless he is terribly worked by prejudice.
The monetary commission in their report say: "The true and only cause of the stagnation in industry and commerce now everywhere felt is the fact everywhere existing of falling prices, caused by a shrinkage in the volume of money." Yes, they not only say that, but they also say-"An increasing value of money and falling prices have been and are more fruitful of human misery than war, pestilence or famine." Think of it, will you? Yes, think of it three
or four times. Then do not forget that the National banks have in their power
to expand or contract the currency at will. A remark of James A. Garfield's comes pat to the purpose here-" Whoever controls the volume of the currency is absolute master of the industry and commerce of the country. No earthly force can withstand the engineering of the principal autocrats."
John Sherman said: "The contraction of the currency is a far more distressing thing than Senators suppose. Our own and other nations have gone through that process before. It is not possible to take that voyage without the sorest distress to every person except a capitalist out of debt, or a salaried officer, or an annuitant. It is a period of loss, danger, lassitude of trade, fall of wages, suspension of enterprise, bankruptey and disaster."
Yes, we have attempted the voyage and are still on the sea of distress and disaster, and there does not seem to be much prospect of reaching the other shore. I could quote on, but why should I, for it seems to me there is evidence enough to convince any reasonable man that my premises are correct.
But if Mr. Mohler still maintains that supply and demand regulates prices, I would like to have him state why American flour retalls at a less price in England than in Chicago. Yes, and we need not go to Europe, but come nearer home. Why does Harper flour retail at 10 cents a sack less in Englewood, one hundred miles west, than here in Harper for the same grade ? Yes, and why was it that the farmers paid 15 cents a pound for binding twine when the same material in half-inch rope was retailing over the counter right here in Harper for 11 cents? And why was it that when the Western Union Telegraph company absorbed the Baltimore \& Ohio prices advanced 25 per cent. on telegraphic communications? Does he contend that supply and demand is the cause of this? Yes, and I remember that corn at one time in Chicago advanced from 75 cents to $\$ 1.30$ in two days, and it did not take half of that time for it to drop to 68 cents. Also, that Phil Armour "bulled " mess pork from less than $\$ 10$ per barrel to over $\$ 22$. The deal was not confined to the United States, but extended to Europe, and when it was closed he virtually owned all the mess pork in the world. The estimated gain to the manipulator was $\$ 7,000,000$. Think of it, fellow farmers : Here one man was carrying all the mess pork in the world; notonly that, but adds millions to his wealth without adding a single dollar to the wealth of the nation. And that the farmers of this grand country whose agricultural resources are unlimited are reduced to such a state that they can not carry enough wheat from year to year to reseed their land should there be a failure, but are forced to sell it at less than cost. Mr. Mohler knows that there is not enough wheat in the farmers' hards from the crop of 1887 to re-seed the ground, and if this year's crop had been a failure that they would have starved to death putting it in as far as the wheat supply of this country is concerned.
You know, fellow citizens, that away back in Egypt they stored up their crops to bridge over seven years of famine; but here in what is supposed to be the great agricultural country of the world, we are not able to carry a year's supply; and not only that, but there seems to be those who think the cause of the trouble is an overproduction. I tell you overproduction is not the cause of the depression. Neither does supply and demand rule prices to a very considerable extent at the present time.
Each crop in Illinois (according to State Agricultural reports) raised since

1881 has been raised at an actual loss to the producers, and not only that, but eighty-seven of the best agricultural counties in the State show a decrease in their population. That, too, in a State that raises more wheat, corn, oats and hay than any other State, and I believe only second in hogs and cattle, and it is believed her condition is somewhat better than other Western States. If we keep on at the same rate how long before we will starve to death? I tell you "something is rotten in the state of Denmark." Yes, not only in Denmark, but a "heap sight" nearer home.
This article is already longer than I intended it should be, but I will give a quotation from Lincoln before I close. Near the close of the war, in a letter to a friend in Illinois he said: "Yes, we may all congratulate ourselves that this cruel war is nearing to a close. It has cost a vast amount of treasure and blood. The best blood of the flower of America's youth has been freely offered upon our country's alter, that thenation might live. It has been indeed a trying hour for the republic, but I see in the near future a crisis approaching that unnerves me and causes me to tremble for the safety of my country. As a result of the war corporations have been onthroned and an era of corruption in high places will follow, and the money power of the country will endeavor to prolong its reign by working upon the prejudices of the people until all wealth is aggregated in a few hands, and the republic is destroyed. I feel at this moment more anxiety for the safety of my country than ever before, even in the midst of the war. God grant that my suspicion may prove groundless."
But his suspicion did not prove to be groundless. Think of it, the two great political parties carrying on a campaign and the only issues are sectional prejudice and one is in and the other out Not only that, but how about the concentration of wealth ? It is estimated that 1 per cent. of our population own half of the nation's wealth and that 2 per cent. own half of the other half. What is to be the result? When Rome feil all her wealth was concentrated in a few hands; the same was true of Egypt Babylon and Persia. What is it about history repeating itself? Daniel Webster said: "Liberty can not long endure in any country where the tendency of legislation is to concentrate wealth in the hands of a few."
I believe if Mr. Mohler and others that are inclined to think with him will lay aside their prejudices, investigate and understand the laws that have been enacted since 1862 in the interest of the classes and against the masses, they will no longer contend that supply and demand govern prices. Nor that the depression now everywhere felt in the United States is caused by an overproduction of farm products.

Geo. T. Bailey.
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InTERESTING FACTS ABOUT WOOL
English farmers are among the best, if not the best in the world, and when one of them speaks or writes on subjects connected with agriculture, he usually sonveys useful information. Mr. John W. Turner, Bradford, re cently prepared an article on "Wool and its Uses," and it was published in the Journal of the Royal Agricultural Society of England. The article wa reviewed in Farming World, Edinburg Scotland, from which we quote what follows:
As a contribution toward a bette knowledge of the subject, Mr. Turne briefly describes British wool and its uses, before proceeding to discuss its commercial aspects. The long-wools (Lincoln, Cotswold, and Leicester), he tells us, are subdivided for commercia purposes into lustre and demi-lustre. The pure lustre wools were formerly made chiefly into ladies' dress goods, and twenty years ago commanded a much higher price in proportion to other goods than they do now. Lustre or brightness alone, which entered so largely into the enhancement of the value of these wools for dress purposes, is now of secondary importance. It is, however, still necessary that they should be smooth and straight, and any crossing with rougher breeds for the purpose of obtaining weight, or with broken breeds for the sake of the mutton, reduces their value. Mr. Turner speaks of the unconquerable difficulty of sometimes making the wool-growe understand this point, in connection with the fact that in lustre, as in other wools, the finer the fibre the more valuable is the wool. Hearing that fine wools are the best to sell, the long-wool rower in many cases tries to improve his wool by crossing it with the Down the result generally being that he loses the lustre and smooth straight hair without obtaining enough of the fineness of the Down to be of any commer cial value. This, of course, is not directed against the crossing of breeds, but merely against the erreneous no tion that the fineness of wool of one breed can be grafted into another without altering its original characteristics. A colonial farmer under such circumstances as those of the long-wool growe would, Mr. Turner points out, have pre served the character of his breed, but would have continued it by a careful selection of the finest wooled among his sheep.
The demi-lustre wools are made into camlets for men's clothing in China, Japan, and Northern Asia; into lastings for boots and furniture; and into bunting for flags, and some kinds of curtain stuffs. The value of this class of wool consists in its length, strength, and solidity of fibre. Fineness of hair is valuable so long as it is obtained in the right way, but this must be done by selection within the family itself, and not by crossing from the outside. These wools are used for classes of dress goods where a certain "handle" is required, and any interference with the breed removes the wool into other channels of trade.
In Down wools, on the other hand, which are principaly used for hosiery, under-garments, flannels, and similar goods, also for some woolen goods where a springy light handle is desired, absence of lustre, the finest possible fibre, and not too much length,
are the desirable qualities. In Mr. Turner's opinion, there will always be by comparison, a good demand for purebred Down wools, because they possess qualities which render them suit able for the uses just mentioned in greater perfection than any other wool. greater perfection than any other wool
But, as already stated, crossing deprives the breed of its best qualities from the wool-buyer's point of view an illustration is given by Mr. Turne of a clip of wool from a Hampshire Down flock, which had been "improved by crossing with the very heaviest Lincoln. "All the good qualities in the two breeds were effectually destroyed. No lustre manufacturer would use the wool as the lustre had disappeared. No maker of buntings or simiar goods could use it, as the staple was 00 short; whilst for the hosiery trade thas both too long and too coarse. The lot was ultimately sold at about 50 per cent. less than the value of Down and 25 per cent. less than the value of Lincoln at the time."
Half-bred wool occupies, as far as supply goes, the most important position in the market. It is the largest item in the English clip. It is an everncreasing quantity in the Colonial clip, and probably of the forty million of heep in America the greater number are half-breds. Mr. Turner uses the name "half-bred" throughout in the same sense as it is generally used in Yorkshire, to signify a cross between a coarse and a fine-wooled sheep. What is required in this class of wool is a moderate length of staple, softness of handle, and the greatest fineness that can be obtained. As there is the keenast competition in this class, it follows that the greatest amount of knowledge on the part of the British farmer is necessary to hold his own in the concests. Yet Mr. Turner is able to show hat the growers of half-bred wool in this country have for the last quarter of century or so been steadily playing nto the hands of the Colonists. Twen-ty-five years ago some of our half-bred wools were celebrated and justly so or their fineness and softness, and they were very much sought after for certain classes of goods. This was notably true of the Norfolk half-bred wool. But about the time named the Norfolk balfbred wool-growers got dissatisfied with the weight of their fleeces, and carried away, no doubt, by the high-prices which the neighboring farmers of Lincolnshire could make of their much heavier wool, they began to take means for increasing the weight of the fleece. The only thing aimed at appeared to be weight, and very Hittle thought was given to the effect upon the character of the wool. The result has been that the Norfolk half-bred of to-day is a mongrel breed, which is beaten by almost every sort it competes with. The same mistake has been made in other districts, and has been one of the cause of the downward tendency of prices.
Under the head of "mixed breeds," Mr. Turner includes all wools which have in them a cross of the Scotch black-faced, more or less recent, and in various degrees. Throughout the north there are various wools which show all kinds of mixtures. The value of these broken-bred wools is now somewhat higher in proportion to other wools than it formerly was, a good many of them being utilized in the manufacture of so-called home-spuns, cheviots and tweeds of the rougher class.
Mr. Turner shows very conclusively that imported wool is a great and important factor in determining the value of our home clip. In 1861, the total import of wool of all kinds into this country was, in round figures, $150,000,000$ of pounds, or about an equal quantity to
production had fallen $186,000,000$ while the imports had increased to 615 ;000,000 . More than $300,000,000$ this enormous increase is the produce of Australasia. During the whole of the period the Colonial wool has been steadily improving. Everything that attention and business ability can accomplish is done by the Colonials to meet the wants of the trade. The result is that, with the exception of pure lustre wool, every kind of British wool can be matched and beaten in the Lon don sales of Colonial wool. And while all this has been taking place, our own wool in the classes which compete with Colonial has been deteriorating.
The mode of business between woolgrowers and wool users is next adverted to, and Mr. Turner's strictures on this part of the home trade are only too well merited. There are many points about the manner in which Colonial wool is sent to market and dealt with, which give it an enormous advantage over our own. The flocks are often very large, and after being shorn, the wool is genarally carefully and thoroughly skirted, and also classed into different descrip tions, so that on its arrival in London large quantities of it can be taken direct to the comber without any sorting whatever. As the sales generally last from three to six weeks, and as there are seldom less than 100,000 bales of fered every night there is plenty of choice. When this style of business is compared with the dilatory and unbusi-ness-like manner of buying English wool from the farmer, it will be seen what an immense saving of time and trouble there is to the user of Colonial wool as compared with the user of British. A manufacturer can, and often does, purchase as much wool in London in a single night as would take him a month to buy in the country.
To the inquiry as to what can be done to enable our farmers to get more for their wool, or even something like oldtime prices, Mr. Turner can only reply that at present he sees very little hope of any substantial rise in prices. An import of inore than $600,000,000$ of pounds of wool is a factor which effectvoly removes any of the exclusive conditions which formerly helped to keep up the price of British wool. Fof though it must be admitted that we do not retain quite half of it for the use of the other half in the shape of the manufactured goods of France and Germany in all the markets of the world. Thus the question is not how home-grown wool can be restored to its old position for that is impossible, but how it has to
hold its own in the competition. Mr. hold its own in the competition. Mr.
Turner's answer to this is: "Let the wool which is known to suit a district be grown there in all its ancient purity; and let farmers generally take care that their wool is got up for market better than it often is."

## Don't Give Up the Sheep.

Sheep-raising has not been generally profitable the last two or three years but that alone is not sufficient justifcation for abandoning the business or for sacrificing any considerable number of sheep. Wheat-raising has not been proistable, nor has cattle-raising or hog business been specially profitable. A good many manufacturing establishments have been closed and a large number of railroads have been put into the hands of receivers. Sheep-raising is not exceptionally unproitable.
Wool may be low in price, but, like wheat and pork and corn and beef, and butter and cheese, it is always salable at some price for cash. Mutton is the best of all summer meats, and sheep
for mutton on the farmer's table are
the best animals on the farm, for the reason that the carcass is small and can be used fresh in an ordinary family during warm weather. Where families are small, several of them may be supplied all along during warm weather by slaughtering one or two animals a week, each in turn furnishing the carcass. Besides, mutton is becoming more and more in demand in all the local markets.
The objection which is urged most frequently is the probability of tariff duties being removed from foreign wool, and that will still further reduce the price of American wool. There is force in the objection, but not as much, in our opinion, as many persons suppose. The effect of removing duties will depend largely on the course taken by American farmers. If they should all go to raising wool, that alone would reduce prices, as was done by the stimulus given to sheep husbandry by the high tariff duties of 1867. Wool was cheaper in 1883 than it was in 1888, just as woolen goods and nearly all kinds of: manufactures were cheaper. So of wheat and corn and cattle and hogs: But there is no danger of every farmer rashing into sheep-raising. There will doubtless be some large flocks herded on cheap lands, but the ranch dispensation is nearly ended. Population is spreading as well as increasing, and men are occupying the public lands for: homes. Small farms are multiplying: while large holdings are diminishing: in number and extent. Sheep may be: and will be kept in small flocks on small! farms, the big men generally going outof the business. Let every farmer have few good sheep, raising them for the double purpose of wool and mutton, and don't get scared about the market, for, even if the worst anticipations: should be realized, sheep of that class will be worth raising even on an American farm.
But the danger is over-estimated in our opinion. It will naturally drive a great many persons out of the business and whence balances are struck, it will be found thatiour population has greatly ncreased and the number of our sheep has greatly decreased. For a year or wo, while the changes are taking place wool will be low, very low; but in the course of three to five years, prices will gradually improve. As fast as foreign wool-growers get certain control of our markets, they will take advantage of the situation in their own intereats and raise prices as fast and as high as the condition of the industry here will al ow. The wise farmers will reduce their flocks where they are too large and will go to raising larger-bodied sheep for mutton as well as for wool Don't give up the sheep.

Westorn Pork-Paoking.
Editor Charles B. Murray, of the Cincinnati Price Current, in the thirtyninth annual report of the pork-packing in the United States, issued by that valuable journal, gives the following eview of this great industry:
The important industry of converting swine into product, for food and other uses, has been stimulated not only by the enlarging requirements of our own country, but also by the needs of other countries, where the production of meats has not kept pace with the advance in population. The cheapness, considering the feeding cost of hogs in the corn-growing portions of our country, with the quickness with which swine are brought into marketable condition, and the wholesomeness of meats produced from American hogs, have favored the production of a large surplus available for export to other countries, during late years. The export
variable, under influence of changes in values and home supplies in the receiving countries; and more or less restricted in late years by the attitude of some of the countries of Europe, in prohibiting importations of American meats, which continues to be maintained, under the view of protection to their own meat-producing industries. In France, where the edict of prohibition was issued seven years ago, the importation of American meats was $70,000,000$ pounds for twelve month ending June 30,1881 -the meat product of about 500,000 hogs, or over 8 per cent. of the meat exports for that year. In Germany, which has also placed an embargo upon American meats, the imports formerly reached $30,000,000$ to $40,000,000$ pounds annually - showing $43,000,000$ pounds for the year ending July 30,1881 , representing the meat product of over 300,000 hogs. Denmark has taken a similar position with reference to American meats, in order to encourage the hog-raising industry in that country; the importations of our meats into Denmark have not been of important volume, $2,000,000$ to $4,000,000$ pounds in late years, reaching nearly $7,000,000$ pounds in 1883.
In 1860, the total of meats and lard exported from the United States was $107,000,000$ pounds, and in 1863 reached $439,000,000$ pounds. Then followed a decline to $98,000,000$ pounds in 1886 ; for five years, 1867 to 1871 inclusive, the annual average was $128,000,000$ pounds; in 1872 the exports were largely increased, and exceeded any previous year-the annual average for five years, 1872 to 1876 inclusive, being $568,000,000$ pounds. The next five years marks the largest exports recorded, reaching $1,233,000,000$ pounds in 1881, the preceding year being about an equal quantity, and for the five years ending with 1881 the an nual average was $1,076,000,000$ pounds. This was also the period of lowest average prices. Since 1881, values have averaged decidedly higher, especially the first part of the period, and the exports have been much reduced, declining to $627,000,000$ pounds in 1883 and $754,000,000$ pounds as the annua average for six years, 1881 to 1887 inclu sive. These exhibits of exports are for years ending June 30.

The extent to which hogs are handled by regular packing establishments in the country is closely determined. It would be interesring if there were also available data as to number of hogs additionally killed, by butchers and farmers, throughout the country. But this cannot be stated, although the re ported number of swine in the country, officially estimated, affords a basis for calculations. The Western reported packing in recent years has been $10,000,000$ to $12,000,000$ hogs annually. Eastern packing, for which returns have been obtained, has been $2,000,000$ to $2,500,000$ hogs, exclusive of the slaughtering at New York, Philadelphia and Baltimore, which cities have handled $2,500,000$ to $30,000,000$ hogs yearly, chiefly for product consumed fresh, locally. The annual number killed by regular packing concerns is approximately $15,000,000 \mathrm{hogs}$, for the entire country, exclusive of the seaboard slaughtering referred to, and the killings of interior butchers and farmers. It is likely that the aggregate killing in the United States closely ap proximates $30,000,000$ hogs, the product of about 40 per cent. of which gets into commercial channels.

Words cannot express the gratitude which people feel for the benefit dene them by the use of Ayer's Sarsaparilla. Long-standing cases of rheumatism yield to this remedy when all others fail to give relief. This medicine

## In the Dairy.

JERSETS VS. HOLSTEINS AS BUTTTERMAKERS.
Dairymen of the present day are, as a rule, men of thought, and a degree of intelligence is associated with their business that a few years ago was not considered essential or important. If a cow gave milk in fair quantities and continued a reasonable time to do so, she was an acceptable animal for at least one season, at the end of which, or when the flow was diminished so much as to render it unprofitable to keep her longer, she was sold to the grazier or to the butcher. Not much attention was given to the breed or to the quality of the milk. All milk contained butter and cream and in the absence of absolute knowledge resulting from practical tests of the comparative richness of the milk-quantity was the standard and the heavy milkers were most sought and considered most valu-
able. Latterly, however, this is all changed-attention is given to the specific wants of the dairyman-by the breeder-and animals are produced exactly suited to his needs, and while the heavy milking cow is desired by the milk-seller and the cheese-maker, and sometimes the milk of such cows is unusually rich in proportion to quantity, yet, as a rule, the business for which they are most profitable and to which the owners will confine their labors, is in the direction which nature has outlined for them.
Occasionally, as stated, great milkers prove to be also great butter-producers, as in the case of the Holstein cow Clothilde and others of her strain, but the enormous amount of milk required to be handled in proportion to amount of butter, points conclusively to the fact that the Holstoins-the best of them-are not designed for profitable butter cows in comparison with the Jersey, the milk of which, on an average, will produce a pound of butter from about 12 pounds of milk, while that from the Holstein requires almost double that amount. The composition of the milk-the elementary partsreadiness with which the cream separates, sizes of butter globules, comparative quality of the butter itself, composition as shown by the analysis and the verdict of the butter-eating public in favor of Jersey butter, all prove unerringly that the two breeds have each a differont mission, and it is perpetuating a wrong and misleading to the uninformed in search of the best dairy animal suited for a special line of business to urge great butter claims for the Holsteins as a race. As stated, the milk from all cows will produce butter, and while it is true that some breeds make it in large quantities, it does not follow that all breeds make good butter, which together with a supply in profitable quantities is the alm of every dairyman ongaged in butter manufacture.
The Jersey has been bred for centuries specially for butter, the fineness of which is world-famed. The milk is adapted for the purpose, being heavduce butter. These are easily sepa-rated-much more so than in any other milk. The quantity of the milk is usually comparatively small, but this is no index to the butter yield, for pound of butter is about the average, scores of instances are recorded of three to four pounds only being required.
No well-informed butter-maker, posted about the requirements of this business, will ever employ Holstein cattle in his butter dairy. If he does it will be
which after all is probably the most convincing route he could strike. The wonderful stories published about but-ter-making Holsteins are very taking and attrective to the dairyman in search of butter cows, and while there are odd instances of great producers, they are as a race by no means to be depended upon in that line. They are milkers, and to give milk in large quantities is their legitimate mission, and it is not in the order of things that quantity and quality should be combined in the product of a single animal. The report of the butter performances of the Holstein cow Clothilde and some others of her family, published in a Leavenworth (Kas.) paper, wherein it is stated that she and two of her daughters at an average age of four years, averaged 21,215 pounds of milk in a year, is truly wonderful and is calculated to produce enthusiasm in the mind of the milk dairyman, and to lead him to think that his brightest dreams about a profitable milt-giving animal have been realized in the Holstein cow, and while this group and others of the strain have shown very creditable buttex yields, all the way from 15 tbs .6 oz . by a five-year-old, to 28 ths. by Clothilde herself at eight years old, there is nothing to encourage the butter-maker to employ them in his business, for taking the three animals named-the old matron being considered the very best representative animal known to the breed, and allowing 25 tbs. of milk to produce a pound of butter-a low average for Holstein milk-the showing for them all from this immense volume of milk is a little less than 850 tbs. of butter each per year, which is about 100 tbs . less than the highest Jersey yield covering a similar period, and only barely equals the recorded test of quite a large number of others of the breed.
The same weight of Jersey milkwhich can be produced at infinitely less cost-would yield double the amount of butter, greatly superior in quality, and of much greater market value. Other instances of phenomenal butter abilities possessed by this exceptional family of Holsteins are noted by the same paper, and while these all have a tendency to excite a feeling of just pride in the minds of those who esteem the breed for great milking qualities, it does not justify the assumption-great as the Holsteins are as milkers-that they are successful or profitable competitors of the Jerseys as butter-makers. These instances with Holsteins are rare exceptions, while poor butter-makers and poor butter families of the Jersey breed constitute the exceptions. This point is important for the butter dairyman's consideration, and he wants to put his money where it will make him best returns.
Turning to the records of the Jerseys we find there are over 1,400 cows in this country that have tested from 14 ths. of butter per week all the way to 46 tbs . $12 \frac{1}{2} \mathrm{oz}$., the highest record ever made by any cow of any breed, scores of them between 20 and 80 tbs. Bulls of the breed-a great many of them-have fifteen to thirty daughters, and an innumerable aggregation of descendants more remote, that have tested yields embraced between 14 and 36 tbs . of butter per week and the standard is constantly being elevated and advanced. The system of breeding and the care in mating employed by most breeders of Jersey cattle will soon result in the business being reduced almost to a certainty. The universal tendency is in that direction. The quality of the product from this race of animals no one questions. It only remains now to purge the race of that proportion which is weak in butter power, and breed up with the best, and the time has come
when the butter-making dairyman alive to his own interest, chooses only the Jersey. Facts are "stubborn things," and are incontrovertable, and one of the most stubborn and incontrovertable of them all is that the Jersey cow far excels all other breeds in the production of rich milk and butter. This is amply proven by her works.-George Jackson, in Jersey Bulletin.
Advantages of the Oreamery System, There is rarely an enterprise that benefits a town, city, or county as much as an extensive creamery. The country within s radius of seven or eight miles around is reached by the cream-gathering wagons, which pay as much if not more for a gauge of cream, which represents a pound of butter, as the farmer could get for the butter after making it. Besides getting as much or more for the cream as for the butter, the farm. ers are saved all the work of churning and preparing the butter for market and get one-fourth more butter from the same amount of cream. This onefourth more which the creamery men pay cash for is a dead loss by the old process. To illustrate, suppose a farmer sold ten pounds of butter a week, which would amount to 520 pounds per year. This would only be four-fifths of the amount he would get paid for had he wold his cream to the creamery, or a loss of 130 pounds in a year. Estimating butter at 20 cents per pound the amount gained in a year by patronizing the creamery would be $\$ 28$, besides saving all the labor of making and marketing the butter. So every reader can readily see that a creamery is a mutual benefit and a blessing to any locality. It is the most feasible plan of reaching the large butter districts, besides ren dering the grade of butter uniform, and thus abolishing the inferior qualities. In many of the smaller towns and villages in the vicinity of Bloomington, are men who daily collect cream from the neighborhood and ship it to Bloomington on afternoon freight trains. These men who have their regular routes and regular customers, generally calling at the same place three times each week. They have large collecting tanks into which the cream is put. It is paid for by the "gange," a "gauge" being the amount of that particular cream which will make a pound of butter. A sample of each lot of cream daily collected, 1 splaced in a long glass tube, (properly labeled with the name of the person furnishing it), and each day the contents of these sample tubes is made into butter and carefully weighed and measured. This constitutes the basis for the price of each particular lot of cream. Two creamery wagons are running at Cooksville, one at Hudson, one commencing at Kappa this week and several others will commence in a week or two, all of which will collect for the Bloomington cream-ery.-Pantagraph, Bloomington, $1 l l$.

At the Rio Grande sugar works they feed the horses upon rations of one part of bran to three of sorghum seed; and they make the best of pork by a judicious use of the same material.
Shallenberger's Antidote for Malaria is the cheapest remedy in the world in proportion to the work it does, because it is certain to cure even the worst cases if taken
properly. One bottle of thirty pills will properly. One bottle of thirty pills will
cure any ordinary case, and one doose wil
stop the chills, but a number of doses and a
little time are required to drive all Malaris little time are required to drive all Malaria
from the system. Sold by Druggists.

## Oreameries and Dairies

D. W. Willson, Elgin, Ill., makes a specialty of furnishing plans and specificatlons for building and operating creamerles and dairies on the whole millk or gathered cream systems. Centrifugal separators,
setting cans, and all machinery and 1 mple ments furnished. Correspondenco answered. $\begin{array}{ll}\text { ments furnished. Correspondence answered } \\ \text { Address, } & \text { D. W. WILLsoN, EAling, Ill }\end{array}$

## Corcespondence.

## Rainfall, Temperature, Olimate.

Efitor Kansas Farmer: - Secretary Graham's recently published table of rainfall at Manhattan college for each May, June and July for twenty-nine years is exceedingly interesting. It shows an increase of 30.56 inches in the fourteen years ending with 1886, over the fourteen years ending with 1872; but finds that by comparing the lourteen years ending with 1887 with corre sponding number ending with 1873, that the increase is only 18.14 inches. This differ ence is obtained by merely changing the starting point one year, "and yet," he adds, "there is no better reason for beginning with one year than with any other."
During these twenty-nine years, beginning with 1859 and ending with 1887, there have been five well-defined drouth periods center ing abouf 1860, 1866, 1874, 1880-81, 1886-87, or averaging nearly seven years apart. If we commence with 1859 and divide twenty-eight years following into two equal parts, we have two drouth periods in each division of courteen years-those of 1880 and 1866 in the irst, and of 1874 and 1881 in the second. But If we commence with 1860 and count the wwenty-eight years to end of 1887, then in the first fourteen years we have two drouth pe riods, while in the second fourteen years there are three drouth periods-that of 1887 having been added.
In making a fair comparison is there not better reason for commencing with 1858 than with 1860? In dividing the records of rainfall into periods, the periodicity of our years of extreme drouth or excessive rains should be kept in mind. I believe a divison into seven years will come nearer dividng the cycle of the seasons and mating a tair comparison between one period and an other, and this Secretary Graham has prac tically done in his division of the twenty olght years commencing with 1859.
It would be interesting now to see beside this table one of the average mean temperatures for each May, June and July for the same twenty-nine years, and note ir temperstures bear any relation to increase of rainfall in last half of the twenty-eight years fall in last half
In cousidering the question-"Is the rainrall increasing," it is well to bear in mind the favorable location of Manhattan at junction of Kansas and Blue rivers, with heavy oodies of timber in the vicinity for catching its full share of the thunder showers of proagricultural days. The conditions for at racting rain were almost as favorable before tabllshment of stations for taling records of rainfall on our high level lands or divides is rainfail on our high level lands or divides is Signal Service and State institutions shonid signal Service and State institutions should of heat radiated from closely-pastured sod; of heat radiated from closely-pastured sod; llowed to pasture. There should be a not allowed to pasture. There should be a rec ord of surface or soll temperatures on cultivated and uncuitivated land, of the capacity cially in absorb and retain rainfall, especially to coute the effect of the removal large herds of cattle from a civen territory arge herds of cattie from a given territory, and whether the natural sod does not, after several years of disuse and winter freezing, ecome more mellow and absorptive. The rain gauge alone will never prove or disprove the question of climatic change. It is possiout for the the with out increasing the rainfall. If the farme who can make two blades of grass grow where one grew before is a philanthropist, ho not equally a benefactor if he can accomplish with ose inch of rainfall, by retaining it, what two inches failed to do in days of hide-bound, water-shedding prairies? In the eastern half of Kansas the question is not so much "Is the rainfall increasing ?" as "Is the rainfall more equable," and "Are the seasons more favorable to crop production from one period of seven years to another?" Do we average more showers in a given period? Does a given mount of rainfall precipitate more slowly Topeka, Kas.
H. R. Hiluton.

## The Aim of It.

Editor Kansas Farmer:-While Engther in Napoleon's day, from 1803 to 1814 they closed the ports of all commercial na-
tions. It was then that our New England facter Bes started, and they llourished. Soon began those factorles began to suffer. They began those factories began to suffer. They
 or protaction. They ald that Belgium and thor nare and oods hero a Congress pat a heavy tarir on labrics made New the to protect our home industries. New England rojoce. But the oreigner langhed at her. They began to import ele cant linens, woolens, siiks, satins so fine and heap that they found great and ready sale, and in return they carried ofl in their fieets or mach colton that our home ractories had pay mach more for collon. Then they and ilir protection againstil and silks. They not it. Still trade grew and other aricies wero imported and cotton eept too high. Then they called for protec tion against everything and made cotton 80 uined. Protection always aims at the im ruined. Protection always aims at the

## Oregon, Mo. <br> Clark Irvine

Will Mr. Irvine kindly explain why imports and exports from and to this country have increased largely in amount and value from the beginning of our tariff history to the present time with prospects for still fur her increase even under existing tariff laws ?-EDITOR.

## An Iron Barn.

Editor Kansas Farmar:-An essential
o success in the dairy business is a good to success in the dairy business is a good
barn, and a good barn is one that will keep the cattle cool enough in summer and warm nough in winter; that will not leak in our remendous thander storms nor warp its des off in the hot sun. These conditions are, it seems to me, best met with in the bilding covered with corrugated iron if properly constructed. Having used one of this kind for several months past I feel safe n saying that the dairymen and, indeed, al ur stockmen will find the iron barn of grea value in our peculiar climate and will wel come it as a solution to several questions which are likely to vex one at inconvenient Thes.
This barn is wind-proof, water-proof and fire-proof. It was painted before it was bought and it will nelther warp nor shrink. As the material comes in sheets about wenty-five inches wide and six, elght, ten or twelve feet long, and as it is so light that thay be cut with a tinner's shears it will e seen that the material for the covering of very large barn can all be hauled at one oad. It does not absorb paint like wood, and a very small quantity will serve to re paint it when necessary. The first cost is, I hink, very nearly the same as good lumber when battened, painted and shingled, and if the manure is not piled against it to cause it or rust out, I think it will last very much onger. It is certainly very nearly perfect as a roofing material for stables, silos, granries. My barn is framed like a house with stud for each. lap of iron, i. $e_{\text {., }}$ about wenty-three inches apart, is covered, roof and sides, with corrugated iron and has all the portion below the hay-mow floor sheeted p with stock boards, thereby forming an air hamber between the iron and the inside coler in this hen built in this manner It is barn of a neighbor builtin the ordinary way, though the latter has the advantage in location. I am not attempting to compare this with the stone barn, but when compared with the wooden barn I think it has deidedly the advantage. I. D. Graham. Manhattan, Kas.

Send for a catalogue of Campbell Normal University, Holton, Kas.
Light and ventilation are as essential in he winter stable as food and water.
Ayer's Hair Vigor has long held the first place, as a hair-dressing, in the estimation of the public. Ladies find that this preparaion gives a beautiful gloss to the hair, and entlemen use it to prevent baldness and are humors in the scalp.
In our announcements of candidates, readers of this paper will notice that E. G. Shull is a candidate for County Superintendent of hawnee county, a man in every way comARMER gladly indorses. Then for office when Shull.

WEATHER PRFDICTIONS.
By Prof. C. O. Blake, Topeka.
 FABMRR on account of this Weather Departm
should be directed to C. CBake, Topeka, Kas.
advertisement of Blake's Almanac on another pag

WHAT SHALL TEE HARVEST BE?
The farmers have it in their power to for ver settle this vexed tariff question as well 8 the transportation question. We are oing all in our power to assist the farmers settling those two great problems. Do two ask how? We will tell. More ago our astronomical calculations wo years ago our astronomical calculation drouths, was at hand. We so stated long in dvance in our publication, and advised farmers how. to plant so as to receive the least damage. We also advised them to tore their surplus corn, till it should be needed during the drouth. We took our own medicine in running our two farms near To peka, and made more money on the farms during the years of drouth than in ordinary years. This year we haveall the timestated hat it would be a good crop year, and have persistently advised the planting of large crops of corn, wheat and other crops. By thus using both mind and body in raising large crops in good years, and by knowing When the bad years will come, so as to be able to take advantage of circumstances, farmers will make enough money in a few years to not only pay their debts but to have a good bank account, instead of being ongaged in constantly "reducing the surplus," as they have been in the habit of doing while paying tribute to Cæssar." They will then hoe factoriles, woolen mills, plow factories, etc., in each county. They will thus afford a home market for nearly all they can ralse, and proucer and consumer being brought close ogether, they will get rid of the immense "tribute to Cæsar" now paid for transportation, tariff and profits of a horde of useless middlemen. This will settle the tariff and transportation problems, and we do not see anything else that will. What matters it to the Kansas farmer whether he ships his produce to Pennsylvania and Massachusetts to xchange for high tariff goods mado there or whether he pays a little more for transporting his produce to England and exanges it for goods made in England at ufficiently lower prices to make up for the haul? In elther case the farmer gets the worst of it, and is kept poor by either free trade or high tariff, so long as he pays for this double transportation. But it is useless for the farmer to expect the capitalist to come and build the factories fer him. Captalists are as selfish as the ret of us, and only look to their own interest. As long as
they can combine with the transportation they can combine with the transportation
monopolists and meke a football of the tariff monopolists and meke a football of the tarifif who in the end pays all the bills, they will oot be troubled with any excessive amount self-abnegation in building factories in our county or township. What we want is or the farmer to understand what self-interost is and then be as selfish as the capitalists and politicians are. To do this the farmers must know what the weather is to be so that "hey can raise big crops and accumulate a "surplus" with which to build factories in every county and township. This is the greatest problem of the age.

## The Sweetest Girl in Sohool

"She's the sweetest girl in school!" onthusiastically exclaimed one young miss to another, as they passed down the street together. "Edith is so kind, and gentle,
and unselfish, every one likes her. And she and unselfish, every one likes her. And she has lovely golden hair and pretty eyes.
Isn't it a pity her complexion is so bad; it Isn't it a pity her complexion is so bad; it
spolls her looks. And then she has such dreadful headaches!" The girls skipped along, but it happened Edith's mother had heard what they said. It set her thinking. What could be done for those headaches and the rough, muddy complexion, that was such a trial to her gentle daughter. She recalled what she had read of Dr. Pierce's Golden Medical Discovery, and on the spur of the moment she slipped into a drug store and bought a supply. Edith took it faithfully, with the result that it cleared her disordered blood, relieved the headaches, made her skin soft, fair and rosy, and now,
she is not only the "sweetest girlin school," she is not only the "sw
but the most beautiful.

YOU SUFFER
From Biliousness, Constipation, Piles, Sick Headache, Sour stomach, Colds, Liver Trouble, Jaundice, Dizziness, Bad taste in the Mouth, etc. - You

## Warner's SAFE Pills

will cure you. They have cured tens of thousands. They possess these points of superiority: sugar coated; purely vegetable, contain no calomel, mercury or mineral of any kind; do not gripe; never sicken; easy to take; mild in operation; and for these reasons are especially the favorites of women. Aak for
WARNER'S SAFE PILLS.
The successful farmer must be a good business man. There is as much in the belling of farm products as in the ratsing, selling of farm products as in the raising,
so far as the profit is concerned; and, in so far as the profit is concerned; and, in
order to sell well, the farmer must underorder to sell well, the farmer must under-
stand value, and be reasonably well posted in business matters.

So far as posstble keep all the quarters of the stock clean. Filth breeds disease, and the only safe plan is to clean out and keep clean the poultry house, the pig pen, the sheep shed, and the stable; all should be cleaned up before hot weather sets in, and then a reasonable effort be made to keep them clean.

## Hardware for Farmers,

D. A. Mulvane \& Co., 713 Kansas avenue, Topeka, always keep a full line of hardware, and especialy desire the patronage of
every farmer, who will find it to his interest every farmer, who wiet ind itt to his interest
to inspect our complete stock of hardware to inspect our complete stock of hardware
of every description, includng the cheapest
and best line of gasoline stoves, refrigerat and best line of kasoline stoves, refrigera-
tors, barb wire, sareen doors, timware, lad-
ders, wheelbarrows, etc.

## Consumption Surely Oured.

To THE EDITOR:-Please inform your readers that I have a positive remedy for the above named disease. By its timely use thousands of hopeless cases have been per-
manently cured. 1 shall be glad to send manently cured. 1 shall be glad to send
two bottles of my remedy FREE to any of two botlies of my remedy FREE to any of
Your readers who have donsumptiton if they
will send me their Express and $P$.

If land be deeply and thoroughly underdrained snow banks melt away from beneath from the rising of internal heat from or heary the bank them. No matter how deep or heavy the bank may be this furnishes a
space beneath in which air circulates to space beneath in which air circulates to
some extent, and always suffleient to presome extent, and always sufflicient to pre-
vent smothering plant life. Where wheat vent smothering plant life. Where wheat
or clover is killed by snow banks lying over it the ground beneath is only partially underdrained or not drained at all.

## Oonsumption Oured,

An old physician, retired from practice, havIng had placed in his hands by an East Indla missionary the formula of a atmple vegetable remedy for the


 English, with full directions for preparing and using.
Beat by mall by adressing with tamp naming thl
paper, W.A. No
A correspondent of the Rural New Yorker, who has had experience, says that after all the old hen is the cheapest, safest, most reliable incubator for the farmer, even incubator yet made, says this correspondent can run itself and hatch chickens: it quires an infinite ameunt of watch; it retending The machine can watching and the living The machine can not be kept in the living room unless one's nose is oblivious ture smils, and any place where the tempera-
ture fuctuates mach is fatal to his hopes of chickens.
B. F. Johnson \& Co., of Richmond, Va., have an advertisement in another column
that may interest you.

EXPERIMENTTAL FARMING. Prof. Sanborn, of the Missourl Agricul tural college, is intensely interested in establishing proftable lines of agricaltare. He has been in charge of the college farm some
years, and in his latest bulletin (No. 34) he years, and in his latest bulletin (No. 34) he
reviews the work done, and offers some good reviews the work done, and offers somegood
sugkestions. After describing the farm and sugkestions. After describing the farm and
its condition when experiments were began, Its condilt
"This paper is written because the farm systom was itself an experiment believed to be of more moment to our farmers than those the writer has carried forward and reported. It was an attempt to apply science to agriculture in the elaboration of a systematio type of farming for the West, in which the laws involved were to work in harmony to accomplish a given end, and thus achieve commercial success and make it a trueschool farm. To these purposes there was at once added the functions of an experiment station. These experiments have been continmonthly bulletins.
"The value of the trial to our farmers consists in the fact that it was inaugurated under the hardest conditions, unrelieved by the power to borrow capital or by State aid, and opposed to current practices-in fact, a radical revolution of farm methods in vogue If it succeeded it was, as the conditions abjve stated will show, in the grasp of every farmer of the State who is willing to apply himself.
'After careful consideration of soll, climate and markets, a six years' fixed rotation of crops was insugurated (for full statement of philosophic reasons involved, see Report of Missourl Board of Agriculture for 1886-7) upon 108 acres of ground, about all of the available tillage land save orchards and horticultural grounds in use. The balance of field land being bottom land, badly worn, and one and one-half miles by road from the house, was sown to a mixture of eight varities of pasture grasses. The rotation was (1) corn, (2) oats, (3) clover, (4) wheat, (5) timothy, (6) timothy.
"The ideas involved were the distribution of labor over the season and time for thorough work with each crop; the alternation of crops whose root-feeding areas were at varying depths in the soll; those maturing each other; broad and narrow-leaved plants alternating; by alternation the dodging of above and underground insect and fungus enemies; the growth of only such amount of straw and corn fodder crops as could be saved, stacked and fed in rations with clover and other introgenous diets, and so balance the deficiencies of those coarse foods in albuminoids; the growth of crops adapted to
consumption on the farm, in order to inconsumption on the farm, in order to in-
crease the fertility of the farm. And the alternation of cover crops and tillage crops in order to get alternately the protection from leaching, washing and volatilization of the soil materials of the one and the soifdecomposing influences of the other, each checking the other from excess of its deleterious influences when pursued as a continuous system.
"All corn fodder or straw was to be saved, stacked and used. The cattle, instead of feeding around stacks in the open air, were brought to a square partly surrounded by a temporary lean-to shed costing the farm $\$ 150$, and around which and additional
straw sheds all hay straw and were stacked and fed in alternste rations in were stacked and fed in alternate rations in rack in the shed by a rear door, quite
handily. The manure thus saved has been applied twi e in the rotation-to corn and to wheat. Thorough tillage and careful selection of seed were entered upon, while some $\$ 2,000$ has been used in clearing for pasture 250 acres of ground from legions of small or buck bushes and small wood growth and the
continuous sprouting of the same. This latcontinuous sprouting of the same. This lat-
ter work of letting the sun in has with our mixed pasture grass given a quality of pasture that has greatly increased the growth of steers and nearly three-fold Increased our pasture capacity, which will be four-fold or more when completed. Beyond the above system we could not go for lack of barns to control other conditions, which it was very desirous to involve in animal nutrition or tock feeding, saving of liquid and more ar as carried ong of solid manure, etc. So volves the saving of the distinguishing wastes of the West, namely, straw, corn fodder, manure and soll waste by excessive
tillage, and involved constant increase of soil fertility, for rich manure-making foods were bought and fed and manure drawn from town, but no more manure than we are orced to waste from lack of well-arranged barns, for saving solid and liquild manure ach as has just been erected here. I was again and again told that it was idle to at under our condition in Missourl, and that laborate farming would not pari, and that the result.
"The farm will winter and pasture twice o twice and one-half as much stock in bet ter condition than it would slx years age nder the system then pursued, or the ordiary system of the State.
"It has an increase of personal property in every direction amounting by the yearly invoice of two farmers to $\$ 1,441$. But this is on a greatly reduced range of prices that really represents the stock and material of $\$ 2,500$ to $\$ 3,000$ at rates it was first invoiced to the farm. Its fences are in mach better condition, it has forty acres of pasture sowed in mixed grasses that will carry a steer to scres of land for $\$$ astnre. It has opened 200 sprouts. It has expended $\$ 200$ on archaill from which it has derived as yet no ruit. It has cleared its fields of stumps, inshes hrees, race course, filled of stumps, bushes, vation, at a cost of $\$ 700$ in round numbers. vation, at a cost of $\$ 700$ in round numbers.
it has expended $\$ 800$ to $\$ 400$ yearly in experiment work. Those and other improvements carrled out from the profits of the farm amount to $\$ 3,424$, to which add $\$ 1,441$, increase of invoice, gives \$4,865. To this it would be proper to add shrinkage in values of $\$ 1,200$ to $\$ 1,500$, if real advance is to be
ascertained. This is for five years, as the ascertained. This is for five years, as the slxth year is not yet concluded. But the of the farm from which revenues can now easily be derived. It has rich cleared fields and good pastures, good tools and stock, and a system of farming that costs less to handle than at first.
"Its fertility has nearly reached the standard set for it of an average crop of sixty bushels of oats, three tons timothy, four tons clover, eighty bushels corn and forty bushels of wheat yearly.

This year would have ended the round would have been interesting to when the data But the government experiment station took forty acres out of the heart of the field lands and deranges the whole farm polity or abil ity to obtain results per acre.
"I can only give last year's results, which were for wheat, forty-six and one-half bush els per acre (our wheat has been yearly nine and one-half, twenty-two, seventeen, thirtyone and one-half and forty-six and one-half bushels to the acre, and a prospect of forty bushels this year) ; hay, 295 loads for eightyone acres, or two and one-half to two and three-fourths tons per acre, estimated, for we had no available scales for hay. The corn was cut for fodder after passing out o and stacked, dally. It was an extraordinary poor corn year and our thick plant gave a dense heavy growth of a fine cattle food and I deemed it best to use it as I did, but the capacity of fully up for corn is now great, and for oat ully up to sixty bushels for the fature
Exact weights would have been given, but last year we were building a new barn bat h
and
use.
"I

I may also explain that this report should have been delayed until next year when the omy of the new barn condd the econshown, but change of location of the writer and absorption of a part of the farm under station management necessitates this fragmentary and premature report. The data given are open to the criticism of this community, who have loag known the farm. In view of all the above facts I feel au who are in saying to our struggling farmers times our agricnlture her one the have my profound sympathy in all their efforts to better their condition, that a higher type of farming which seeks not only to give also suves all but to increase it, and which tic of the West, is a most decidedly safe and oncouraging ent, is a most decidedly safe and encouraging one to pursue. The same rate has been secured here outside of the increase

In personal property and other advances on his farm from its own revenues would have an immense influence on the wealth and culture of the State."

## Gossip About Stook.

B. E. Dale, Kerrville, Tenn, advertises this week a winter turnip which he thinks he stockmen of this State will appreciate. He invites correspondence.
Remember that we can supply "Haafi"s Practical Dehorner," the best book on the subject ever published, for only \$1.25, or we
will send it and the KANSAB FABMER one will send it and the Kansas Fabmer one year for only $\$ 2$.
The live stock receipts at the Kansas City took yards from Jan, 1 to July 15, 1888, are 335,624 cattle, $1,182,666$ hogs and 158,817 sheep. showing a gain of 77,871 cattle, 93,909 hogs oss and a gain of 46,740 sheep compared with 1887.
We are in receipt of the sale catalogue of the first annual sale from the Fruitiend Her of Bates Short-horn cattle, the property of
H. M. Vaile, Independence, Mo., to oceur . M. Vaile, Independence, Mo., to occur August 8. The offering comprises the best ot of in-bred Bates ever offered in the West. Don't fail to send for a catalogue of this re-
markable herd and mention the KANSAB Farmer.
Orr illustration on the first page of Nie op's Netherland is a cood likeness of the bull which has been used as one of the breeding bulls of Buchanan Bros., who have their ale this week at Rockefeller, fll. The bul was calved June 8, 1885, his dam has a milk ecord of 116 lbs . In one day and 3,120 1-16 bs. in thirty days. Smiths, Powell \& Lamb purchased his full sister for $\$ 1,000$.

An effort is being made to organize the American Association of Breeders' Jacks and Jennets. Its object will be the collecon and publication of the pedigrees of ules as it may be decided npon. It is be leved that such an association can do much to stimulate mule breeding. Charles F. Mills, of Springfield, Ill., and Charles E Leonard, of Bell Air, Mo., are the leaders in this work, and will be glad to hear from al interested parties. It is hoped to effect reliminary organization at a meeting to b in November
According to the latest statistics the total number of horses, which the leading coun tries of the world can throw into ield of battle are as follows: Russia, 21,570,000 horses; America, 9,500,000; the 3,500,000; Germabye, 4,000,000; Austria, 00 horses and 300,000 mules; England 2,790,000 horses; Canada, 2,624,000; Spain 080,000 horses and $2,300,000$ mules; Italy ,000,000; Belgium, 383,000; Denmark, 317, $000 ;$ Australia, 301,000; Holland, 125,000 and Portugal, 88,000 horses and 50,000 mules It will be remarked that Russia heads the list by an enormous majority.

The State Superintendency,
The following resolution was passed unan mously by the Southwestern Kansas Teach Is Association at the meeting held in Wellington, November 24 and 25, 1887:
Wheress, The teachers of Kansas be-
lieve, and that such is the sentiment of the Southwestern Kansas Teachers' Associaselection from their ranke of voice in thembers fo the highest offlices in their profession; that political machinery of the commonwealth as
coming from a non-partisan and coming from a non-partisan and unblased
source; and that they believe in the recognition of experience, fitness, and a true eduwe do hereby
Resolve, Th
Resolve, That, because of his thorough school system; its perfect exposition of pressas, acquired by the most extended experi-
ence and closest study, of any educator in our State; that we extend to John MacDon Shawnee county for the past ten years, our
hearty support, as the coming State Superhearty support, as the
intendent of Kansas.

The question as to whether nitrates are in ispensable for the growth of field crops has aen carefully investigated at a German Agricultural Experiment Station. The re uits seem to show conclusively that barley oats, beans and wheat can be grown in a soil absolutely free from all nitrifying organ isms, but containing nitrogenous manures, such as ammonium sulphate.

## REASONS

Why Ayer's Sarsaparilla is preferable to any other for the cure of Blood Diseases.
Because no poisonous or deleterious ingredients enter into the composition Ayer's Sarsaparilla.
-Ayer's Sarsaparilla contains only the purest

- Ayer's Sarsaparilla is prepared with extreme care, skill, and cleanliness.
- Ayer's Sarsaparilla is prescribed by leading physicians.
-Ayer's Sarsaparilla is for sale
verywhere, and recommended by all first-class druggists.
- Ayer's Sarsaparilla is a medicine, and not a beverage in disguise.
- Ayer's Sarsaparilla never fails to
effect a cure, when persistently used, according to directions.
- Ayer's Sarsaparilla is a highly concentrated extract, and therefore the most ec
market.
- Ayer's Sarsaparilla has had a successful career of nearly half a century, and was never so popular as at present. - Thousands of testimonials are on


## Ayer's Sarsaparilla.

Dr. J. C. Ayer \& Ced by
Dr. J. C. Ayer \& Co, Lowell, Mass.

## KANSAS WEEKLY WEATHER REPORT.

Furnished bv the Kansas Weather Servioe. Abstract for the week onding Thursday, uly 18:
Rainfall,-The rainfall has been very nequally distributed this week, 73 per cent. of the amount falling in the eastern half of the State and 27 per cent. in the west half. Little or no raln fell from Osborne to Staford, thence northwest to Gove. An excess ell in Elilis and Graham, in Barber, thence east to Chautaaqua, and generally in the entral-eastern counties; the heaviest ocarred in Donglas, Johnson and W yandotte. ht inland, in Douglas, an exceedingly ing Coal areek ont of its banks and flooding ng Coal creek out of its banks and flooding
the country for half a mile on each side. It was so entirely local that three or four miles out on each side there was hardly sufficient o settle the dust
Temperature and Sunshine.-In the cenral and western counties the temperature has been excessive, ranging up to 112 deg. in
the afternoons, with hot nights. Sunshine has been the rule. hot nights. Sunshine Results.- The oats and flax harvest is progressing taverably in the central and north-
ern counties. In the northeastern countios arn counties. In the northeastern countiles
the oats have rusted considerably, and in
Brown and Doniphan have lodged in many ingtances. Wheat threshing is in progress In the contral and southern counties, and the
yield is proving very good. Chinch bug ary lield is proving very good. Chinch bugs are
in the corn to some extent in the northern
ounties; they are doing some damage in counties; they are doing some damage in
Rooks and have appeared in Graham. Signal Corps, A. Jestinnirge, P. S.-OWing to the fallure of a large par Foek, no builetin could be issued
hoped that it will not occur again.

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topeka report.
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## the reekort.

Abstract f
uly 14, 1888:
Temperature. Highest at $2 \mathrm{p} . \mathrm{m} ., 95^{\circ}$ on
 Rainfall. - Rain fell the 8th, 9 th and 14th
Total for the week, 1.48 inchees.
Hall's Vegetable Sicilian Hair Renewer Is becoming a unlyersal favorite for re-
storing gray hair to its original color, and making hair grow thick and strong.
A sharp plow will save its cost in a sea on's work. All the farm tools and imple ments should all be put in proper order fo spring work if not already done.
Mr. Josiah Jordan, who is announced as candidate for County Superintendent, has been a resident of Shawnee county from schools will render his services as County Superintendent partlcularly valuable.

The fome Circle.

To Correspondents.
The matter for the Home Circle is seleoted
Wednegiay of the week before the paper is Wednesday of the week berore the paper is
printed. Manuscript received after that, almost invariably goes over to the next week,
unlesi it is Fery short and very good. Corre-
spondents will govern themeelves aocordingly.

## They Oome No More.

The glow and glory of a sunset's splendor:
The soent of viote after April rain;
 The sploy
 To roaioh the eaored place where grief.
And wake it into keeneet life agin.
They come
Wroken bing for gome reoonculug word Margoken, 1 ger a pang of hope deferred
Mometmes seem that heaven must kind t sometmes seems that heaven must kindly
ond open. And untrous be siven some blegse token
That all our fove and longling had been
heard.




- Mrs. L. G. Mc Vean, in Traveler's Record.


## We Kissed Again With Tears. As through the land at evo we went, And plueked the ripened ears,  <br> And blessings on the falling ou That all the more endears- When We fall oit with those we love And Gise a gain with tears

For when we oome where lies the ohlla


Honor! thou spongy daol of man's mind,


## BEAUTIFYING THE HOME

There are many ways in which the home may be beautified at a trifiling outlay of ather time or money. One of these is the conversion of an old-fashioned chest of drawers into a modern chififoniere. These old-time, tall bureaus may be picked up for a song at a second-hand dealer's shop, or in out-of-the-way country places. They are generally of hard wood, and are well made, although, as far as external appearances go, hey have not much to boast of. Sand-paper the entire surface and finish with mahogany stain, after which sand-paper again and then varnish. Of course 2 finer finish may be produced by rubbing the first coat of varnish down and applying a second coat. If the bureau be of fine-grained hard wood it would be far better not to put any stain upon it but finish with repeated coats of varnish well rubbed down. These articies are zen rally quite plain, but they may be embe ished to one's heart's content by ornaments and moldings of Lincrusta-Waiton staine the same shade as the wood. Put bras handles on the drawers, and get a mirro ong enough to extend across the top; fram it in Lincrusta-Waiton, stained, fast and no only a useful, but a very tasteful, chiffonier will be had.
luxurious couch.
wide, low couch of wicker work, or with woven wire seat, may be made a thing of beauty by laying upon it a rather thick mattress, over which is thrown a Tarkish covering, with rich, dark colorings, which falls to the floor. Then get three square pillows, of such a size that when placed side by side they will extend the entire length of the couch, and cover them with tapestry of harmonious colors. Lean these up against the wall, and behind them nail a wall drapery of woven flax, with cross stripes of ecru and brown. Across the top, where the drapery is affixed to the wall, arrange at equal distances five small, round, lacquered placques. If some short Japanese dagsers or ords can be secured, one may be placed on each side of the center placque with good effect
but even without them the tout ensemble will be artistic in the extreme.

A BIMPLE SIDEBOARD.
A simple and inexpensive sideboard, which does good duty and is very appropriate in he modestly furnished home, is made or plain deal table about two-thirds the wiath Itted ordinary kitchen table, with a shen with a mixture of raw Slenna, burnt Sienna and Vandyke brown thinned to the proper consistency with sizing. Hang some plain shelves above, elther stained or covored with felt cloth, to hold ornamental pleces of china and glass. Lay upon the top of the table a scarf of butcher's linen, with knotted fringe, and further ornamented with drawn work or outline designs in washable 8iks, and then will be had a one need be ashamed.
to embellish the corners.
Corners are sometimes eye-sores from their very barrenness. One of these may be managed by a very simple arrangement of three-cornered shelves covered with felt or plash, the fronts being finished with a sixinch fringe, or with strips of Lincrasta-W alton. The shelves should be at least twelve inches apart, and there may be two, three or more of, them, as desired. An rala sik arta susponer one is a pretty addition. Anorner cormer mas have a single shelf upon which is a bust or a handsome vase. Take a mufficent length of soft sill or other drabury drew it through a brass ring, which mx to the plature rall letting the ends fall in nament corering the shelf and hanging ornament, coce below it. A pedestal, tal some distance bero anp ap the lower part ane screws

Belly
A screen easily made at home at a trififing cost is of jointless, soft green matting tacked to a slender pine wood frame. The frame Witon, which adheres readily to the wood Waiton, which adheres readily to the woo and are stained s yellow ochre crimson with a mixture of yellow oche, chack lake, When quite dry give a coal arresbe polish. The matting is an agreeablesurface oo paint upon, and shour popies or some with a bold, free design of popples or som similar flower. The natural color or the matting readily blends with any color. Th fine, jointless Japanese mating also 1 charming door panels. It may be clued o nailed with small brass nalls to the door and afterward painted.

PRETTY BTYLE OF TA An inexpensive and elegant table may be made by any carpenter of any desirable size or shape. A pretty style is of a circular form, with four legs inclining eutward. fat plece of wood about a foot wide is nalied against these legs about six inches from the ground, making a sort of wainscoting around the table. This plece has circular openings in the center of each of the sides, or may have two or even taree in each slae, in which are fitted pretty china plates of different sizes. The entire table, legs included, is then covered with cloth of any desired color, fitted smoothly in every part and fastoned with small tacks.

EMBIT MADE VA. PEDESTAL.
An elegant-looking pedestal for 2 vase is made of a keg about two feet high, which is fastened to a small square of wood, scarcely projecting beyond the edges. Coverthe keg ear its top a scarf of soft olive silk. Th cloth is laid in box-plaits and fastened with brass nalls.
something about walls and crilings.
And now a few words about walls and cellings. The annual house-cleaning dis closes cracks in the celling and a genera dinginess of paper which werenot obtrusiv the cracks be deep nothing can be done but ointing up the plaster and either painting or papering if however they be merely reper ignid brozze or cidd making other irregu iquid broza or verly. ovenly. A small star-inapedorna the lina be placed at ine insect walls or celling Wrh hood effech. Fapor are of harsh pattern, or that have becomed them may be improved by waint The pattern thill coal or walorelor paly. agreeable. Paper that is clean and whole-
some, but dull and monotonous in effect, may be lighted up wonderfully by painting a frieze in some plain wator cor and then stenciling a pattern upon it. The celling, is npapered, might bo the the and the stenciling of the frieze repeated apon the border. These are only a few sug kestions, but they may lead up to othors oca-
fertlie minds to fit a special place or occafertile minds to shtladelphta Record.

Domestio Service--New Lines of Work-
Woman Suffrage in England--SelfHelp for Women.
Under the above title T. W. Higginson, in Earper's Bazar, writes:
Side by side with the greater facillities for making money in this country, there exists the opportunity for greater changes and calamities in this direction than the world ever saw before. This is seen in the history of almost every family, but it is still better Illustrated by the career of great institutions, because these are usually conducted In a pecullarly cautious and conservative manner, and their funds would seem safe from all but direct dishonesty. Tet how unavaling is all human wisdom to protect them! some twenty years ako a Boston merchant, Benjamin Bussey, created in his will certain trusts for the benefit of Harvard university, leaving money to the amount o nearly haif a million dollars, whose income, after payment of certain annuities, was to be used, onequartar for the law sol. 1 , one quarter for the divinity school, and one-hal or an agricultural and horticultural school, now known as the Bussey Institution. In his will Mr. Bassey stated in substance that having long observed the fluctuations of real ostate in Boston ho had taken paino to in vest this property in a manner approacking absolute certainty, a. e., in improved rea state in the very hearton boston. This was ail that could be done for safely, it then seemed, by the most experienced investor and after this a great stone building with mple green-houses was erected in 187, and when the Bussey Insituilion wentinto oper oration it was believed that would be in dependent of students' foes. Then came the reat Boston fire and swept away the very buildings which had been chosen as the on safe investment. When they were rebuil the expense was so much kreater as in stantly to cause a vast shrinkage of income and the half share of this income availabi or the Bussey Institution, which in 1872 was $316,447.53$, is now but some 4,000 or $\$ 5,000$ not mach more than enough to cover the sal ary of a single professer. Thus difficuit it for the atmost caution and experience to discern what method will keep wealth to gether even when it is obtained. The whee of fortune in these days is more disguise than formerly-covered with gilding, veiled by roses; but it is the same old wheel after
Others of the great educational institutions of the country - Harvard college proper, Johns Hopkins, Boston universityhave gone through some similar diversities of fortune within the last twenty years. If now it is thus hard to preserve the property of a college, how much harder to preserv that of a woman, from loss or disappearance? It is subject to a thousand risks, not merely fires and failures, water in mines and strikes on railways, but it is also at the mercy of her own ignorance, her impulses, her generosities-of unfaithful guardians, pendthrift brothers, mercenary lovers. Every father wishes to guarantee a life of comfort, or at least of safety, to his daughter. But which is the better kuarantee, a property invested in what seems the very safest manner, Ilke that of the Bussey Institution, or the firmer investment of good health, good abilities, and good education? once knew a young lady who, having sud denly lost a large property, was utterly broken down by it, and remalned a helpless his mor the rest of her days. the habits of wealth, who has seen her ex pectations of property suddenly vanish, and who, having just completed her college course, has already with indomitable energ its and place in journalism, while her sired of course both these are individual cases but they indicate in some degree the differonce between the old days and the new Women are outgrowing the old hablt of learning the lesson of self-help. The num-

er of employments open to women is stead ly increasing, and it is impossible to say that the future may not see as qreat change as the immediate past has seen. The ten dency of modern soclety is, in Napoleon Bonaparte's phrase, "to convert all trade nto arts," and just so fast as this proces rees on, rude strength becomes less essen tial and fineness of touch is more needed Among the higher occupations there ar some gaps which will soon be filled. Th tenth census of the United States gives 2,43 women as physicians and surgeons, and onl forty-elght as "chemists, assayists and met allurgists," whereas the latter vocation would seem to follow easily on the former It gives only seventeen women as architects whereas domestic arclitecture would seem employment peculiarly fitted, at least in its in-door aspects, to that sex. It certainly seems absurd that they should forever go on calling in male advisers to tell them how many shelves to have in a pantry, or where to set the wash-tabs in the laundry. But it is needless to cive details of employment; just as far as the demand for an intelligent self-support exists, so far the oppertunities will be equalized between the sexes, and more and more places will be found "higher up" for women. The great thing to secure is a feeling of genuine self-respect among women who earn their own living; to convert the class to be found even among those laboriously industrious who sincerely hold that no woman who earns her daily bread an be a lady. This will be outgrown; and with s greater ability to earn money wil wome better judgment in the use of it, so that it shall no longer be true, as the delightful old yeoman says in Hardy's "Under the (ureenwoed Tree"-when the bride an Greunces that she shall have put her bonnet on in five minutes-that " 'tis e talent of the on lna for hich more especially in matters of wait or high, ing, matters of age, and matters of money.

Washburn College, at Topeka, Kansas, offers unusual facilities to young persons desirous of a thorough education. The ex-
penses are very low. The fall term begins September 12.

## ROYAI <br> (2)元 <br> BAKINO POWDER <br> Abacoluty pue.


 when
phosphate powdera. Sold onty in cans. RoYA
ine Powns Co., ios Wall street. New Yerk.

## The Houng folks.

The Boy For Me. His oap is old but his hair is gold
And his froe
Ais as colear as the sky, And whoever he meots on on line sky Hith looks trem straight in the eye Though obows like a thtte naught knight,
Quito debonir, to a lady fair. Quite debinnair, to a l lady falir,
With a smilo that 18 swift as light.
Doos his mother call? Not a kite or ball
Or the prettiest game can stay Or the prettiost game can stay
His aeger feet as he hastens to greet Whatever she means to gay
And the teaoherg depend on the little friend And the teaohere depend on the little friend
At gohol in hhi plaee at nine
With his leesoon learned and his good marks Vith his leason learned and
all ready to toe the line.
Wonder if you have seen him too
For a morning kise from mother and sis,

A gentiompan, doapry, in the coming years,
And at present the boy for me.

## A German Lullaby.

Sleep, baby sleep!
Father Wathios the
Thy mother is \&haking the dreamland tree,
n falls a attile dream
Bleep, baby, sleop!
Sleep, baby, sloepl

moon is the shepherd
Bleop, baby, gleep!
Consists not in the multitucuae or
But in the worthe multituace of friends Virtue a popular regard purirnoe;
Let them be good that love, alth -Ben Jonson.
Glory is like a circle in the water Which never eoasee to tonlarkgeer
Till by broad She to nought.
Shakespeare.

## The Foroes at Gettysbarg.

The battle of Gettysburg is remarkable not only for its results, but for the fierce and stubborn nature of the conflict itself. The armies on both sides were large, though no so large perhaps as to make the battle pre eminent on that account. The figures on the point are interosting. Those given by tained by cargenul investication. The army of the Potomac, without French's division which had remained at redorick division, 167,251 men but nearly 28,000 w, numbered hospitals, tached service. The numer were on de with their under arms 99,455 . as reinforem, wood meeme 105,000 men and 0 105,000 men and 352 pieces of artillery. But 2,750 troops were on duty at headquarters the cavalry, numbering 10,500, were not se riousiy engaged; 3,000 to 4,000 were serving as additional guards near supply trains, batteries, etc., and there were probably 4,000 to 5,000 stragglers. The Comte de Paris therefore estimates the Union force seriously engaged at from 82,000 to $84,000 \mathrm{men}$. According to the official reports the Union loss was 2,834 killed, 13,709 wounded, Including 10 generals, and 6,645 prisoners, or 25,186 in all. But these figures do not tell the whole story. The hospital records show the burial of 3,576 Union corpses, and it is estimated that 1,000 or 1,100 died of their wounds. It is esimated that Lee brought on the battlefield 250 guns. The Confederates had 2,665 killed 12,599 wounded, including 13 generals, and 7,464 missing, or 22,728 in all, making their losses almost exactly the same as those of the Union forces, though the latter army was the larger by one-fourth. These losses Were enormous, being 27 per cent. of the Union army and 36 per cent. of the Confederate army. They are proofs of the stubwhich the sury of both the blue and the gray, which the survivors of to-day can recall with pride as well as with sorrow.-New York Tribune.

Along South Amerioa's West Ooast. The products of the country are sugar, cofee, cocoa and cotton, while those of the towns are "Panama hats" aud fleas. In each of the ports the natives are busy braidng hats from vegetable fibers, and the results of their labor find a market at Panama and in the cities of the coast, where, as in Mexico, a man's wealth is judged by what e wears on his head. The hats are usually
plant of the cactus family, the leaves of which are often several yards long. When cut, the leat is dried, and then whipped into shreds almost as fine and tough as silk. o mats are made of single fibers, without crown to the rim. It often the center of the three months to make them, and the best ones are braided under water, as the bes more pliable when immersed, the inber more plable when immersed. The cost of a lifetime , po met, or worn inside out, each side being as smooth and well finished as the other.
The natives make beautiful cigar cases, too, but it is difficult for a stranger to purchase either these or the hats, because they have an idea that all travelers are rich, and will pay any price that is asked. One old lady produced a cigar case, such as is sold In Japanese stores for \$1 or \$2, and politely offered to sell it for $\$ 20$. When 1 told her I could get a silver one for that price, she came down to $\$ 18$, then to $\$ 12$, and finally to 81. They have no idea of the value of money, and are habitually imposed upon by local traders, who exchange food for their work at merely nominal rates, and then sell the hats at enormous figures.-William Eleroy Curtis, in American Magazine.

Every Animal His Own Doctor. Golden Days tells how every animal is his own doctor. Animals get rid of parasites by using dust, mud and clay. For that reason pigs wallow and birds take a dust bath in the road. Those suffering from fever strict their diet, seek dark and airy places, drink water and sometimes plunge in it. When a dog has lost its appetite it eats that pecies of grass known as "dog grase" which acts as an emetic or purgatis Cat lso eat grass, and sheep or purgative. Cats iso eat grass, and sheep and cows when il from cht certain herbs. Animals suffering from chronic rheumatism always keep, as as possible, in
Animals suffering from traumatic fevers (that is, fevers arising from wounds) treat hemselves by the continued application of cold water. When an animal has a wounded leg, hanging on by a few ligaments or bones, it completes the amputation by means of its eeth.
These are general rules; specific instances are even more singular. A chimpanzee has been known to dress a wound with leaves and grass. Latreilie cut the antennæ of an ant, and other ants came and covered the wounded part with a transparent finid soreted in their mouths. A dog, on being tung on the nose by a viper, was observed o plunge his head repoatedly for sereral ays into running water, and he soon reco red. A terrier hurt its right soon recov mained under a counter, avolding light and eat, although it habitually bept liant and fire, like most terriers. It adopted a general reatment-rest and abstinence from food The local treatment consisted in licking the upper surface of the paw, which it applied to the wounded eje. It recovered in six

The Island of Labuan and Its Lizards. The Island of Labuan, ceded to Grea ritain in the year 1848, when entirely with ut inhabitants, lies just off the mouth of he Borneo river. The country is flat, wel wooded and watored, but the climate is too fore it. Some fifteen or sis future to be be found on the island, of which six are lizards Two of these are no lagrer than English butterfies, and, being winged, flit about in much the same way. They are viewed with dread by the Malays, who believe them capabe of causing a man's death by biting him upon the back of the neck, although, in reality, they are perfectly harmless. In con trast to these, another kind of lizard found on the island sometimes reaches a longth of six feet, and is therefore known as the land alligator. Its flesh is much praised by the natives, who assign to it several medicinal properties. The dried skin finds a ready sale with the Chinese wo male a ready the ingredients of a Manilla, too, it is a stock article in the markets.

Roman Oatholios in the United States. The Roman Catholic church does not pubish the numbers of its members, but as its dherents are principally foreign born, or habitants, and as the number of immigrants
has greatly increased of recent years, it is lics have tissume that the Roman Catho supposed to beased also. There are now supposed to be about 7,000,000 Roman Cath-
olics to $12,000,000$ Protestants. In 1835 ther were about $1,250,000$ out of 17000,000 in there ants; now there are $7,000,000$ out of say 60 ,
000,000 . 000,000.

## Scrofula

Probably no form ot disease is so generally dis. Almost every individual has this latent polson coursing his veins. The terrible sufferings enured by those afficted with scrofulous sores tude on finding a remedy thats, and their gratiishes a well person. The wonderfor thom, aston-

## Hood's Sarsaparilla

n eradicating every form of Scrofula has been so doubt that it is the greatest medical it leaves no this generation. It is made by C. I. HOOD \& CO

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cured by Huphreys' Veterinary Specifed by Humphreys' Veterinary Spesend messages by telegraph, or sew with sewing
machines. It is as irrational to bottle, ball, and machines. It is as irratilonal to bottle, ball, and
bleed animals in order to cure them, as itis to
take passage in a sloop from New York to Albany take passage in a sloop from New York, to Albany.
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F. F:-Colic or Gripes, Bellyache.
G. G. -Miscarriage Hemorrhe G. G.-Miscarriage, Hemorrhages.
H. H. U Urinary and Kidney Disease
I. K .-Eruptive Diseanes, Mange. S.K

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surely, on the Bowels. surely, on the Bowels.
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MR. A. M. JONES.


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PROF. O. W. MILLER,
PRESIDENTT.

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 Adarons. CANBAB YMRMER OOCh

## ADVERTIBITG RATESS.

##   



Business generally is reported fair.
Corn is growing as fast as corn ever grew.
Rains are reported from many parts of the State.
A Wisconsin man named Zacher, fasted fifty-three days.

Copper ore mines have been discov ered in Montana, in the Sweet Grass region.
Kansas stands at the head of the crop columns this year in the depart ment reports.

The House refuses to put sugar on the free list, only thirty-seven votes in favor of the motion.

A great many fields of corn in Kansa are now so far matured there is no doubt about a good crop so far as they are concerned.

The President has vetoed a numbe of private pension bills the last two o three weeks. He examined every bill personally, it is said.

Some members of the Brotherhood of Locomotive Engineers are charged with criminal conspiracy to injure the property of the C. B. and Q. railroad company.
The House agreed to Senator Plumb' amendment to the Agricultural bill appropriating $\$ 100,000$ for further sorghum sugar experiments. Mr. Ryan argued strongly in favor of it.

The House refused to strike the free wool clause from the tariff bill by a vote of 120 to 102. Three Democrats, Sowden, of Pennsylvania, and Wilkins and Foram, of Ohio, voted with the Republicans against the motion to strike out, and Anderson of Iowa, Republican, voted with the Democrats for the mo thion.

PEFFER'S TARIFF MANOAL The "tariff question" is made the leading issue of the campaign by both the great parties, and the people need reliable information concerning founda tion facts. There is no one book within the range of our knowledge which gives or professes to give facts that cover the whole ground. The subject, as a pro position in economics, is easily understood, but there are a great many details connected with a careful and satisfying study of it. Not more than one campaign speech in a hundred is altogether satisfactory to an inquiring mind free from prejudice. People want to study the whole subject, and they must consult a thousand sources for facts, and they want facts only to begin with, not what somebody believes.
In order to supply the general demand or a reliable, non-partisan statement of facts about the tariff, the editor of the Kansas Farmer has undertaken the preparation of a TARiff MANUAL giving the origin, history, use, object and effect of tariff legislation in the United States, together with much historical and statistical information useful in studying and discussing the tariff. The plan is to present such facts as will truthfully siow what the in this country, how it operates in prac tice - explaining terms, showing differ ences as to the object of tarifi laws and giving ingures and tables relating to foreign and domestic commerce labor, prices home and foreign, etc. etc., so as that any person may, by the aid of this little book, thoroughly in form himseif upon all the leading fasts studyinch tarif laws are based. All no know what the author's opinions are touching any department of the sub ject; but having mastered the facts, he is free to form his own conclusions. It siso gives the tarife plants in all the also gives tio Whir and linublica Democratic, Whig platforms since 1840
The Manual will be a little book about three by five inches, convenient for the pocket, and will contain abou seventy-five pages-the exact number not yet known. The work is in press now, and will be ready for sale in about ten days. It will be sold at 25 cents a single copy, five copies one dollar; sixteen copies to one address, two dollars; one hundred copies to one address, ten dollars. Postage paid in all cases. Persons wishing the book should order early, for the edition is not large, only 5,000 copies. Direct to H. A. Heath, Kansas Farmer office, Topeka.

## Partisan Folly.

The tariff debate in Congress is developing some phases of partisanship which are not creditable, to say the east. If a man cannot rise above his party when his country's interests are at stak
lead.
A few days ago, on a motion to place sugar on the free list, Mr. Peters, of Kansas, without saying what his remarks do fairly imply-that he really believes sugar ought to be relieved from all taxes, said, or was reported as saying that in order to be a consistent Republican he must vote against the amendment. Mr. Funston also opposed the amendment, but he did not do it on party grounds. A day or two later, when the wool schedule was under consideration, on an ainendment to strike out the free wool clause, Mr. Lanham of Texas, said that the bill had the en dorsement and sanction of the Demo cratic party and had become essentially a party measure. He had some doubt as to the propriety of the wool schedule, but he had resolved that in favor of
the duty which he owed to the party to them
prices
rellies
are sin
more
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$\xrightarrow{\text { Yitar }}$
mo
which he belonged, and in deference to ts councils he would yield his own eelings and decline to break the anks.
These are the words of at least two members of Congress who regard the interests of their parties as paramount to the interests of their country. That s bad doctrine; it has nothing to commend it, and the sooner it is repudiated by the people the better for the common interests of all the people.

## STREETER AND OUNNINGHAM.

These are the names at the head o National Union Labor ticket for President and Vice President of the United States: Alson J. Streeter, of Illinois and Charles E. Cunningham, of Arkan sas. The following is the
national union habor platrorm General disoontent prevails on the part on
Farmers are sufferin from a poverty which has foroed most o them ot mortgage their estatee, and the



## 

While we believe that. the proper solution
of the fllanclal distress will greatly relleve

ailowed to own land or in the United States. A
homestead should be exempt to a limited
extent from execution or taxation
TrANSPORTATION.
The means of communication and trans
portation shal be owned by the people as is phe United States postal service
The establishment of a national monetary
system in the inverest of the producer, instead of the speculator and usurer, by which the ciroulating medium in neoessary quantity
and full legal tender shall be 18 sesuad directly
to the people without inter to the people without intervention of banks,
or loaned to citizens upon land security at the
low rate of interest to relieve them from extortion or usury and onzole them to contro
the money suply. Postal savirgs banke
should be establifhed, and, while we have
freo coine ene of gold, we should have fre free coinage of gold, we should have fre
coinage of inilver. Wedemand the immediate
applieation of ail the moneyin the Unitee
Statea Treasury to the payment of the bonded States Treasury to the payment of the bonded
deba and condemn the further 1isgue of intor
est-bearing bonds, either by the national gov
ernmer ernment, or by states, ter
palities.

robibiting the sporration of subjects of Weign countries under con
chinese.
We demand the passage and enforcement
such legiglation as Will absolutely exclude - Chinese from the United States
womin surrag

The right to vote is inherent in eitizenship
respeotive of sex, and is properly within the rrespeotive of sex, and is prop
provinoe of state legislation.

## paramount issues.

The paramount issues to be solved in the
nterest of humanily aro the abolition of sury, monopoly and trusts, and we denounce reating and perpetuating these pontrous
monstrous.

Mr. Streeter's Letter of Acceptance. Hon. A. J. Streeter, candidate of the Union Labor party for the Presidency, comes out very strong against cominations, trusts, etc. We give a few xtracts from his letter of acceptance: "I hold to this principle: The prosperity of a nation is measired by the prosperity of its industrial people. If they are prosperous, then the nation is prosperous indeed; but, if its production people are struggling with poverty, taxes and debt, then the nation is poor, though its treasury, like ours, be overflowing with idle money. Such is the condition of our nation to-day. They the farmers and other working people are growing poor.
"Did our fathers ordain and establish this government to be a machine to enrich the few at the expense of the many? I trust not. But on the contrary, the rue intent of law and of government should be to protect the weaker members in society from the encroachments of the stronger. The stronger are better able to care for themselves, but the weaker need the fostering care of the woakernment and hence covernments goverintituted amongmen This funda are insltuted amb mental principla of the capital class now merged into a money aristocracy.
"If elected, no recommendation will be made to demonetize silver again, nor will the Secretary of the Treasury advise the destruction of the remaining greenbacks in circulation. The law fo the coinage of silver will be enforced in the interest of the people, and in stead of coming the minimum amoun $\$ 2,000,000$ per month, the maximum amount of $\$ 400,000$ per month will be coined. * * * The bonds shall be called in, the money paid out, and the interest stopped.
"There is something wrong, and we all know it. We have tried a change of administration from one old party to the other, but it gave the people no relief We are even worse off now than when the change was made. Still interest, taxes, high rates for transportation, and other combinations take nearly all we annually produce, and leave but little on which to live and less to pay debt.
"The tariff is a minor issue when compared with the greator issues involved, and so complex as to be difficult for many to understand it. No legislation whatever on the tariff will give cheaper rates for interest on money, nor protect the people against the increasing combinations, monopolies and trusts now sapping the prosperity of the people. Owing to the great diversity of opinion on the tariff and among all parties, the Cincinnati convention thought it best at this time to leave that question out of the platform. I believe, however, that there should be
a revision of the tariff laws, and that protection should be given where needed, and the tax reduced whenever it can be safely done. of good government, better morality and higher Christian civilization. Believing, as I do, that cheap tobacco and whisky are not in the interest of better morals and a higher civilization, but
the reverse of it, 1 am opposed to the removal of the government tax on these commoditiea."

## A Prohibitory Tariff

 Last week's Peabody Gazette had a long editorial article advocating a prohibitory tariff law not only as to foreign commerce, but, as to some things, to domestic commerce as well. We quote a few paragraphs, not to indorse the suggestions contained in them, but by way of showing the views of persons who occupy one of the extreme positions in the tariff discussion. Mr. W. H. Morgan is the writer of the article.Some well-meaning people have endeavored
to fortify themselves in free trade ideas by saying that it is not Christ-like, is unohristian, to provent any person or people from having
absolutely free trade with all. In refutation
we may say that the Bible and all history We may say that the Bible and all history
prove that compulsion is larkely used by the
Creator in the education and government of his oreatures. If they can be led, through
their reason, io what is right and best for
themselves, and the world, that ls the way He
adopts. If their innate selifishness overpowers warps their reason and they refuse to do
ht, then He oompels and we must obey right, then He compels and we must obey
The late civil war in our land is a frightfui
example. example. ** * We assume that it would be
the best and wisest policy of our government
to makre the tariff so high that ${ }^{\text {alm would bo be }}$,
almohiltory on all articles which can

## OUR TARIFF PLATFORM

our high tariff. on all preductions 1. A very high tariff. on all productions
which may be obtained at home with even a
posibibility of a reasonable price. In this we
nnclude coal, salt, iron and ether metale
staple articles of food of most kinds, mand all
manufactured articles. [Whether it would be manufactured articles, [Whether it, would be
policy to inolude lumber should be considered
in connection with the depletion of our forn conn
ests. Ad
2. Ad
be prod
dmit all necessary articles which cannot be produced here free or duty-tea, coffee, etc.
3. Admit tome matters free which are edu-
cational. 4. Plac
luxury
5. If it 5. If it were constitutional, we would desire
a State tariff on all articles which could be
profitably produced in each State, to keep out profitably produced in each State, to keep out
all competitors, and make manufaeturers
come oloser to the farmers who feed them and come oloser to the
use their wares. ** *
Let us call your attention to the greatest Let us call your attention to the greatest
extravagance in the world-unnecessary
transportation. What transportation. What immenne fortunes are
invested in our great transportation com invested in our great transportation com-
panies-railioads, ships and steamboats carry-
ing our goods to all parts of the world and pag our goods to all parts of the world and
ing ouring the merandise of other nations to
bring Yet three-quarters of the long hauls is
us.
absolute waste. In fact, if we did not spend absolute waste. In fact, if we did not spend
so muh money paying for dead hauls We
might have ourselves hauled about the wirld might have ourselves hauled about the world
and learn more than we now do with all our
boasted intereourse with the world at large. boasted interocurse with the world at large.
Let us cite some facts:
A few weeks ago the writer was in a Michigan town where he learned that a furniture
faotory there had orders for $\$ 00000$ worth of
common furniture to be and Oregon. *** in Indiana, furniture in
We buy wagons in
Michigan, reapers in Ohio-and send our grain and cattlo east to feed the operatives $w h$ make them; then pay freight on the manu-
factured gods-the freight both ways a dead
loss. How mugh worse it would be if we
bought English goods and fed English operatives.
On the other hand, we might get our lumber
in the forests of Missouri and Arkansas, and make all these goods here and save all freight except on the lumber-and feed the mechance
here who make our implements. If we had
Bomething to compel us, it would be done.
The final result of a prohibitory tariff would home, and when our skill enabled us to pro-
duce or lor than other nations wo would ex-
port.

Samples of Farm Products
Secretary Mohler, of the State Board of Agriculture, addressed the following to Secretaries of county and district fair associations in Kansas
GENTLEMEN:-TThe National Grange and
National Farmers Congress meet in Topeka, November 14, next, and this board is espe-
cially desirous to have the best posible dis-
play of farm and hortioultural cially desirous to have the best possible dis-
play of farm and hortioultural products of
our state on exhibition in the agricultural our state on exhibition in the agricultura
rooms of this board at that time and to assis
in this matter the citizens of Topeka have very generously contributed a speopal fund of
g2000 (apecial class B, to be paid in premiums
as set forth in the, list given below, at the
state Fairin Tin Topeka, commencing September
17. At the close of the fair all entries in this 17. At the close of the fair all entries in this
class are to be donated to the State Board of
Agriculture and be on exhibition in the agri-
cultural rooms at the meeting aforeso cultural rooms at the meeting aforesada, after
which the choicost wil remain permanently
on exhibition here, duly accredited to the on exhibition here, duly a
counties contributing them.
In counties in which fairs are held previous
to the timeor the State Fair, choice selections
from exhibits on hand then should be made from exhibits on hand then should be made
and sent directly to this board and at the ex-
pense of the board. These will be placed on pense of the board. These will be placed on
oxhibition at the State Fair in competition
with allother products in the same class and
the premiums duly pnid over to the parties the premiums duly pnid over to the parties
entitited to them. Countieg in which fairs are
held after the time of the State fair should, in
like manner, make selections of produots and pend directly to this board. These will be at the time of the meeting referred to, If, however, in such counties so energetic parties wish to compete for pre do so by gathering up specimens and sending
them to us. We will be glad to place them on
exhibition. exhibition.
The relation of county and distriot fair asso-
ciations to this board is such that we trust all
Secretaries and other offleials of these socie-
ties will take pride in mating this display on
this rare ocoasion the best ever witne
the the state of Kansas. Scarcely in the next quarter of a century
Foll Kansas have another equal opportunity to show to representative men and women
from every State in the Union the wealth of her agrioultural resources. M. MOHLER
Seoretary Kansas State Board of Agrioul-

## National Farmers' Allianoe

Mr. Secretary August Post, Moulton Iowa, recently issued a circular letter, as follows:
There will be a delegate convention held a Lyons, Rice county, kansas, August 2, 1888, at
10 o'cook a. m., for the purpose of organiling
a State Farmers' Allianco, under the auspices a State Farmers, Alliance, under the auspiees
of the National Farmers
of representanace. The ratio
onill be two delegates from of representation will be two deleggates from
each looal Allianoe having peid its dues to the
National Allianoe. President J. Burrow ational Allianoe. President J. Burrows wil
be present and direet the orderof themeeting
In isguing this call we wish te direct th attention of the Alliances to the faot that thi
meeting wil be one of very great importance
The Alinance in Kansas has, during the pat The year, made remarkable sucoess. Farmers
have realized its importance and Value to a
greator extent than ever before. Every effort
Bhould, therefore, be made to have the meet-
tal ing one that wil adequately represent the
agricultural interests. both in number and in
the quality of the agricuilura of the material.
the is earnestly desired
should be represented in the mery meoting, and
that it should ber represented by the ablest and
best men: members of the soundest ud that it should be represented by the ablest an
best men; members or the soundestjudgmen
and ripesit experienee; who have the full and ripest experienee; who have the full con
fldence of the members; and whose opinion
wlll give welght and obaracter to the oon
clusions of the convention, and be accepted as
the wisest and best thing by the farmers al the wisest and best thing by the farmers al
over the state.
No cosy a No cause is so strong in itself that it can
afford to be represented by any but the ables
men. The All men.
farme
jealou jealousy and suapiocion by others. Its power
and influence in the future will depend largely
upon the frmness, the moderation, and the
Wisdom Wisdom of its conclusions at the coming meet
ing. The way to the widest field of usefulness is now play to the widest field of usefulness it
courrage and wisdo it it be entered with
gending the beat men to the con be done by
represent the local Alliances. represent the loal men thliances.
By order of the President.

AUGUST POST, Secretary.

## Political Eoonomy

This is not a text for a sermon on an abstruse subject; it is merely intro ductory to a wayside remark in response to a list of authorities, with quotations from their writings, sent to us from a friend in Missouri for our information and by way of dissent from an editoria assertion in a
Our wayside remark is this: Authority is useful only when ${ }^{\circ}$ it accords with the truth. If paying balances with money is barter, then the economists who say imports are paid for with exports is true; otherwise not. Opinion never amounts to authority unless it accords with facts. In the tariff discussion facts are worth more than theory.

## Bismarck Fair.

We are in receipt of the ninth annual premium list of the Western National Fair Association, to be held at Bis marck Grove, Lawrence, September 3 to 11, 1888.
The premiums are the most liberal ever offered and the directory of the association is the very best that could be selected, and the management propose to make this fair eclipse all former frorts.
The Kansas Farmer wishes them the fullest success. There is no reason why this association should not hold a lair that will reflect credit to the banner agricultural State. Send for premium list to Secretary, I. N. Van Hoesen Lawrence, Kansas.

## Buokwheat on Wheat Stubble.

 In cases where wheat stubble ground is reasonably clear of weeds, and the soil in fair condition, the land may prefitably be plowed and smoothed well, then sowed to buckwheat. This may be done any time this month, if the soil is sufficiently moist to hasten germination of the seed.Buckwheat is excellent grain for family use, as everybody knows; the plant in flower is good food for bees, and when plowed under it is next to loyer and rye as a green fertilizer.
A small area will produce enough
grain for one family, leaving seed to carry over. Old ground is better for buckwheat than new. Sow about one bushel of seed to the acre, and cover about the same depth as wheat and rye seed are covered.

## St. Lonis Wool Market.

The wool circular of Hagey \& Wil helm, under date of July 10, says:
"The same activity and heavy demand for wools which has characterized ou market since the opening of the season is increased, and actual orders now in the hands of mill agents and brokers are far beyond the current receipts, thus enabling us to sell quickly on arival and make prompt returns. Our hipments from Montans, Utah, Wy oming, and other Western States and cerritories have all been received, sold and remitted for inside of twenty days from date of shipment, and at prices higher than can be obtained in any other American market, thus showing ur advantage in the sale of wools. Al though Congress promises to vote, in the lower house, on the tariff bill inside of two weeks, yet the State of Oregon having gone Republican in the last olection, on the strength of the bill, has caused general consternation among the supporters of the bill, and they are doing all they can to so alter and patch it up as to make it acceptable to the Democratic party without compromising the platform. It is now the general opinion that the bill is further from final and favorable action than ever and that Congress will adjourn without taking any action, and the tariff will be a party issue in the coming Presidential
'From a late issue of the Boston Commercial Bulletin we copy the following: 'The stock of wool here is small, but it seems to be as large as dealers are inclined to wish, as any old wool left to sell now means a heavy loss to the seller. Market steadily declining in price during the past three months.' From the American Wool Reporter of the 5 th inst., we copy the following: 'Prices in the interior still continue to be higher than on the seaboard; in fact, while there is weakness to be noted in prices at the seaboard, the everse is true of the interior markets." Speculators here have loaded up at current prices, and will not suffer prices to go lower, as they cannot afford to in protecting the selling prices of their stocks on hand. The constant heavy arrival of foreign wools. held in Amorica in bond, will prevent any advance in prices of America wools. We cannot see any profit in holding wools, and urge prompt shipment with orders to sell on arrival, as any change that may take place will be for the worse.

Fhnole
Fair........
Common.
Low coarse
TEXAS AND INDIAN TERRITORY UNWASHED Medium 12 mos. 8 to 8 mos
Fine 12 mos... 8 to 8 mo
Fall medium
Fall mediu
Short, Sandy, Heavi...............................
Burry 2 to bents per pound less.
MISSOURI, ILLINOIS, IOWA AND EASTERN UN-
Medium Fancy.
Fedine..
Bradd.
Cotted...
Burry 2 to 5 cents per pound leess.

## noy medium.

Fine medium.
Low medium
Light fine...
Heavy fine.
The above prices are for classified wools of light shrinkage, bright color and good staple. Dark, earthy, mixed to 20 cents per pound, according to con-

Raise Turnips,
Any time in July, when the ground is at, will do to sow turnip seed. Clean, rich. well pulverized ground is needed. After a crop of early potatoes has been removed, and the ground well leveled, the soil is just right for turnips. The seed ought to be sown just before a rain and the ground simply rolled; but when rain is not expected for a few days, the seed should be well-covered and the ground then rolled. One pound f seed to the acre is enough.
A correspondent of one of our exchanges, as we see in an uncredited clipping says one should endeavor to secure quick germination by sowing ust before a rain, immediately aiter the fresh earth has been turned again. As a catch crop, the turnips are usually sown broadcast and brushed in. Firming the soil by a roller, or by other means, is essential, if the weather is dry. Late sown turnips, as well as those sown on newly-cleared lands, are more sweet and crisp than the early sown. If sown in drills, let the rows eighteen inches apart, and when the turnips are the size of robins' eggs, thin out to six inches apart in the rows. The Purple-Top Strap-Leaf is one of the best varieties, and may be sown in Ohio as late as the 15th of August, and at least a month later in the cottongrowing states.

An experienced Illinois farmer says : "Broadcast sowing is the only way I know of, either by mixing with sand. dust or ashes, or the naked seed. 1 never mix. I sow the seed as I find tham. After sowing, harrow thoroughly both ways with a heavy harrow, putting the seed down where the moisture will stay with them and make them grow. Away with the old fogy brush. It has cost the farmers of this country hundreds of thousands of dollars, not only in the loss of expected turnip crops, but of timothy and other small seed crops as well. That old brush is older than the Pharoahs of Egypt, older than the shepherd kings of Persia. The Egyptians abandoned it early in their history and trampled their seeds in with their sheep and goats, which is far, far better. No living man can give a sensible argument in favor of using it, only "because daddy did." Throw the old thing on the brush heap and burn it up, or send it to the man in the moon. Let no sensible man ever recommend its use again. If you wish to level the surface, use a good drag. If you wish to cover any kind of seeds use a good harrow or some implement that will answer the same purpose. Ezcuse my severity. It is honest, and comes from a thorough knowledge that thousands of persons have been hum bugged into the belief that that small seeds must lie close to the surface to be successfully germinated, by their own neglect to investigate or look into the matter. Cover turnip seeds with a brush and you will fail at least three times in five. Cover with a good heavy harrow and you will succeed nine times in ten."

A Through Sleeper to Ohioago
Every afternoon at 3:55 o'clock, upon arrlval of trains from the West, a magnificent Pullman Sleeping Car leaves Topeka for Chicago via the Great Rock Island ROUTE, making close connection with th without change arriving at Chicago the folwithour charning This iscertainly the lowing morning. est and most convenient means of transpor-
tation between points in Kansas and the city tation betwe
of Chicago.

For accommodations in this car, pleaseno tify your local agent, and he will be glad to make such reservations as you may require by telegraph.
Regular subscription price of the KANSAs
FARMGAR is now \$1ayear, within reach of all

## forticulture.

## THE APPLE-TWIG BORER

## mphicerus bicaudatus $\mathbf{S A Y}$ )

Bullotin No. 3, just issued by the Kangas Experiment Station, The matter pit
Boring in twigs of the apple, pear, peach, sumac, and grape: A cylindric, dark brown beetle, about three-eighths inch long, the head concealed from above by the projecting prothorax, which is more or less roughened in front; the wing covers, at tip, sloping downward, and, in the males, beset with a pair of short, blunt spines, inclined inward. The larve and pupæ, as found in dead stems of tamarix, and in dead grape vines, are figured apd described grape
Among the numerous insects concerning which information has been asked during the season past, none, seemingly, has attracted more general attention than the apple-twig borer. Specimens of the insect, and its work in grape vines and apple twigs, have reached us from various points in eastern and central Kansas, Norton and Lane being the western-most counties from which complaints are noted. The following extracts from letters indicate the nature and extent of the injury caused by this beetle in our orchards and vineyards, and give some hint as to its distribution in our State: Mr. R. Robertson, under date of May 26, 1888, writes from Nemaha county: "I send you, for name, some grape vine destroyers. In a lot of fifty old Concord vines, they have destroyed about 10 per cent. of the young, or bearing wood. The vines were trimmed last fall; I did not notice the insect or its work then. In large numbere it would be very destructive." Mr. J. R. Bell writes from Rice county, May 19: "I mail you, today, a box containing specimens of a ily , or borer, that is working in our apple trees, and doing some damage. I find them working in grape vines as well, and hear much complaint of vines being entirely killed. I have lost a few large ones myself. * * * The sumac bush seems to be particularly their choice, as I found them very numerous in it this spring." Mr. M. A. Carleton, Mitchell county, May 28, sending specimens in grape vines, writes: "It is a most destructive pest in this county, having, so far as I have obtained information, destroyed almost all vines nearly to the roots, and all hopes of any grapes this year. I found the specimens in the heart of the vine. They have bored their way there, feeding on the soft tissue, and have, seemingly, in all cases entered at the joint." Mr. H. C. Davis, Norton county, May 21 "Enclosed find cuttings of apple branches infested by a borer new to this country; also others showing the deposit of the larvæ on the branches.* They (the borers) kill every branch that shows a burrow. I have lost fifteen 4 -year-old trees this spring, and have had many more damaged."
Others, of the same tenor, from intermediate points leave no doubt that the presence of this beetle was general, and that its work was unusually evident and noteworthy the past spring. $\dagger$ In the vicinity of the college, for instance, vines were very commonly infested, often several insects being found to a small vine, and two or more in the same cane.
In examining accessible literature for recorded observations upon this insect, it was found that little is known of its life history, and nothing certainly known of its preparatory stages.
[Here follow several pages of extracts touching the life history of the insect,
which we omit because our space is limited.-Editor Kansas Farmer.] Habits.
September 8, 1887, an examination of dead stems of Tamarix, a flowering shrub of strong growth, but in this locslity killing to the ground in severe winters, revealed the work of two beetle larva unknown to us. The burrows extended lengthwise through th3 stems, for the most part through the center, following the line of the slender pith. The larger of the two larve proved to be the young of the twig-borer under consideration. Those burrows in which the larvæ remained, or in which the pupæ were found, were as sho :1n in our Fig. 1, $h$, nearly of the same diamter throughout packed cover. On pruning the vineyard these diameter throughout, packed vines were found, January 26, 1888, to


Fig. 1. Transiormations of the Apple-twig Borer (Amphicerus bicaudatus Say).
The figures, exeepting $h$, which ts natural size, are enlarged, the hair lines at the side, in
 the larval burrow packed with castings, and below, the pupa in its cell.
closely with the sawdust-like castings $\mid$ be literally riddled by beetle larvo of of the larvæ, and usually about three several kinds. An examination showed and one-half or four inches in extent. The pupa was found in a cell at one end of the burrow; and in one case the adult, alive, was found in the same situation, before the outward passage had been made. Many of the burrows had been already deserted by the beetles, and, in such cases, an opening had been made outward, near the upper end of the pupal cell. This must have been werg grape-growers whose vines they

Figure 2. Charitopus magnificus Ashmead.
done by the beetle itself, and not by the larva, as the cells containing pupæ had no such openings. The usual relation of this opening to the empty pupal cell is indicated by the dotted lines just above the base of the side shoot Fig. 1, h). These openings may be lound on any part of the infested stem, and the position in the figured burrow at the base of the twig, is, of course, accidental.
In the twigs examined at this tim

June they were found, alive, in grape anes.
On the 23d of June, examination of the dead stem of Tamarix showed the larvæ, about one-fifth grown, in narrow burrows, some of which had reached the pith, but others being still in the outer layers of the wood. These burrows could be traced backward to their initial point in the bark, but nothing could be discovered as to the probable situation of the egg. From the size and the place of the egg and the beginning of the larval burrow were not made out to a certainty. Indeed, the larval track, to all appearance, had doubled upon itself, and the whole length had been traversed anew by thenearly full-grown larva, the width of the burrow being thus left nearly uniform. This interpretation is strengthened by the finding, in one case, of a partial overlapping of earlier and later-made portions of the same burrow.
Certain old vines in the college vineyard, nearly dead from the effects of the summer and winter of 1886-87, were allowed to remain through the summer of 1887 , but in most cases failed to remong them three specimens of the larva of Amphicerus. The beetles themselves were found alive in numbers in the same vines. Later, during the warm and bright days in early spring, beetles f this species were frequently taken flying. During April and May many specimens were brought in by neighbor-
ing grape-growers whose vines they were attacking. As late as the 21 st of


## $\qquad$

年, if the short ovipositor be included in the length of the body. This insect is also brightly colored, being generally metallic green, this color shaded with purplish blue across the face, and along the sides of the thorax, the abdomen above suffused with wine purple, the legs yellow. These two species are nearly allied, and belong to the family Chalcididoe, a most important group, including a great number of beneficial parasitic insects.Associated in the tamarix stems with the larvæ of the twig-borer, with more numerous larvæ of a smaller size, and with different characteristic features. These were reared in quantity, and proved to be the larvæ of a beetle \|I quite different from the Amphicerus, belonging indeed to a family widely separated from that of the grape vine pest. These smaller larvæ (Fig. 4, a) are less thickened in the anterior part of the body, have larger heads and shorter legs, and are otherwise readily distinguishable from their less numerous but more important associates, the larvæ of the twig-borer. The pupa is also quite distinct (Fig. 4, b, front, and $c$, side view,) though occupying a cell at the end of a burrow very much like that of the Amphicerus pupa. The perfect beetle (Fig. 5) measures rather less than one-fourth inch in length, is grayish-brown in color, with a broad blotch of cream-white upon the middle of the back. This insect is not yet
known to be injurious, but its association with the twig-borer in this instance makes its history worth noting, as of possible economic interest.

CONCLUSIONS.
It seems to us safe to conclude from the above that the beetle is singlebrooded, most of the individuals reaching maturity in the fall and winter, remaining through the latter season in the vines where they were bred,
those twigs whose dying points out the insect at work, is good, but by no means sufficient; and while we may not be able to compass the complete suppression of this pest by the careful collection and destruction of all prunings, diseased or dead vines, or their stumps, yet this practice, it seems reasonable, will assist us materially in the attainment of our object. As the beetle found on the vines, pairing, in warm, bright, spring weather,** the grape-grower may then find it profitable to attempt the collection and destruction of the in sects, knowing that the destruc tion of a single pair at this time means the reduction of the summer's brood by many.
*This "deposit of the larve" proves to be the cases of the "rascal leat+Messrs. Holsingor and Kispenlaub,
of Rosedale, state that this inseet
has attracted no attention in their hioinity, and that they have not see case of its work.
$\ddagger$ Charitopus maomificus Ashmead.
${ }^{8}$ Ratzburgia amphicerovora Ashmes
 Everen, of this place.

## A New Apple 1

In his "First Annual Report on the Injurious and Other In sects of the State of New York,' Prof. J. A. Lintner has given (page 327) a list of insect depredators upon the apple tree, the number of species reported reach ing 176. This number included not only those seriously injurious to the apple tree or its fruit, but also all then known to subsist in part upon it, and but occasionally troublesome. About one-fifth of the entire number given may be named as species actually and noticeably injurious; and while we are solicitous to food plants. It may also breed in th prunings of the grape which remain un- jurious; and while we are solicitous to


Figure 4. Larva and Pupa of Anthribus cornutus Say.
burned over summer, as we have taken the adults in such material under conditions which render this explanation of their presence a most probable one.
The recommendation of Prof. Uhler as before cited, is inapplicable in the
 light of our observations on the habits of this insect, and seems, indeed, to have been based upon a misapprehension of the real method of injury. The usual recommendation, to collect and burn
diminish rather than to increase this number, it is yet necessary that we pay due attention to all notable additions to the catalogue. One of these we have ound in Kansas in the green leaf-eating lea-beetle, known to entomologists aa Graptodera foliacea, which we may call the apple flea-beetle. This beetle is generally distributed throughout the State, and from personal observation we know it to extend at least to the loothills in Colorado.
Throughout its range, so faras noted, it usually occurs upon plants of the evening primrose family (Onagracece), being especially partial to the silky gauras (Gaura parviflora and others), the leaves of which are often riddled by it. We have not learned the place and character of the preparatory stages of this insect, it being the adult or beetle stage in which it has proven injurious in our orchards and nurseries.*
For several years past, the beetle in question has attracted attention on the college grounds by its attack during May and June upon the apple tree, the leaves being the portions injured. In orchard trees the lower branches only, near the ground, have suffered, and these but slightly. The greatest injury has been done in the nursery, where the
beetle has often completely defoliated the spring-set root-grafts, and the year ling trees, and has seriously injured even 2 -year-old trees. The insects are most active in bright, warm weather, and are then attracted to the trees in reat abundance, where they feed upon the parenchyma of the leaf (Fig. 6) avoiding the veins and midrib, these being sometimes all that remains after few days' presence of the beetle. I

## About Budding Trees.

It is budding time now, and for the benefit of beginners we reprint an artiwhich appeared in Kansas Farmer: July 1, 1885.
It is a simple operation and consists: merely of placing a bud from one variety. If the object is to change the character of the whole tree, the budding: must be done near the ground, and the old stem above the bud cut away the


Figure 6.
on the young shoots of the roongrafts hat their work is most injurious. In hese they keep the new growth cut so close that the graft sometimes fails to recover. While the injury to yearlings s considerable, yet the trees, though denuded, usually recover, and throw out new leaves after the season of the attack is past.
Like its near ally, the steel-blue grape beetle, this species is easily alarmed, and on being approached, springs off the leaf, afterward seeking safety in flight, but only to return and again occupy its feeding ground, after the đanger is past.
Upon the college grounds we have checked the advances of this beetle, without much trouble, by the timely application by spraying of the mixture of arsenical poison (Paris green or London purple) in water, as used against the codlin moth. As the beetles fly well, and as they may come in, from time to time, through three weeks or more, from other localities, it may be necessary to repeat the application, the more if heavy rains have fallen. bur
use of these poisons so far has been with the purpose of saving the trees, and we have not made trial to find the minimum effective strength of the mixture. In the strength employed, abou six ounces of London purple to the barrel of water, we found that some injury plants suffering less from this, however, than they would have suffered from the unchecked attacks of the fleabeetle.
To assist in the identification of the nsect, the following brief description is given : The apple flea-beetle (Fig. 7)
measures from 4 mm . to 5 mm . (.15 to .19 inch) in leagth, is ovate in general outline, and, except as noted below, is in all parts highly polished, and brassy green in color. Theantennæ are usually dark-brownish black, the color obscured by a short gray pubescence, except that the first three joints are of the same color as the body, and are but sparsely pubescent. rown and with the legs and under parts generally, are thinly clothed with short gray pubescence. In other details the species is well repre sented in the flgure.
For careful observation upon the in sects above described, and for the excellent drawings from which ou illustrations were engraved, acknowl edgemen
Marlatt.
*A number of these beetles received from
Dighton, Lane county, have been kept for fortnight in a small jar, and fed with apple leaves. They havo fed voraciously upon the
leaves, have coupled, and some of the females have deposited eggs unpon the leaves, and also on the sides and bottom of the jar under the
fragments of the food and excreta. The egg are orange in color, rather leas than a millimeter in length, long, oval in form, and, under to be minutely granulated.

## Che Đouftry Yard.

## Egg-Eating by Fowls.

This is a vice of not very frequent occurrence among well-kept poultry. Every one knows how greedily egg shells will be devotred by hens. They are fond of the inner lining and the shell. It is well enough to feed laying fowls with the empty shells that come from the kitchen. The lime will furnish material for future shells; but they should always be crushed and mixed with the soft food. If thrown out carelessly, the eating of them may be only the first lesson of a vicious course. The shell-eater may quickly become an eggeater. One vigorous thrust of the beak into a perfect egs, in the nest, and the mischief is done. This is nectar. Other fowls approach for a taste; and they all appreciate the food, carking in loud tones, calling it a superior tonic, easy to take.
Another accident that causes fowls to get this bad habit is the dropping of an occasional egg from the roost. It may become broken by the fall, and when daylight comes, the eyes of the fowls are open to the fact that an egg contains sweet meat, and they get a notion into their head that was never there before. But the cause of egg-eating in the nest, that operates most frequently, is the deposit of thin-shelled eggs. A scant supply of lime, and a long period of laying, will result in this condition, even when fowls are quite healthy. A neglect to supply lime in the form of bone, or sea shells, is sometimes the primary cause of egg-eating, but there is an occasional instance of thin-shelled eggs that is owing to some disease or deformity in the oviduct where the shell is formed by secretion. The fowl may be, to all appearance, perfectly healthy, and have a full supply of lime, but one side of each egg she lays will be flattened, and the shell on the flat side very thin. Of course, if her eggs are not removed from the nest, soon as laid, there will sooner or later occur breaking, with its sure consequences. If eggs are gathered often, this evil may be avoided, but we have seen a fowl, the layer of such imperfect eggs, turn round immediately after laying and partake of a warm breakfast. The fancier who has a flock of valuable fowls may well keep watch, and ascertain for a certainty which fowl lays thin-shelled eggs, and remove her at once, for her usefulness is at an end, so far as egg-production is concerned. She must be short-lived, else unproftable.
There are precautions and preventives that have been recommenoed, and practiced with success, thus avoiding this vicious habit. The nest should be so made and arranged that the eggs will not be in full light and in plain sight. If the nest box is open only on one side, and the entrance is turned away from the light and approached through a partially darkened passageway, the fowls will not enter it, ordinarily, except when ready to deposit an egg. It is also advisable to keep in each nest two or three false eggs made of plaster, wond or porcelain; also a nest-full scattered about the pen, on the ground. They will sometimes peck at these, and will shortly ascertain that they do not make any headway with the decoys, and be convinced that eggs do not contain anything that may be appropriated. That makes a good feature in their education, for when they have given up the attempt to break artificial eggs, they is for Man $\&$ Beast.
Iine Prain. Roub y
in very vigorouly
will not be likely to try their beaks on real ones, especially if they are only found in a partially darkened and secluded nest.
One of our correspondents, who had some very valuable fancy towls with the propensity of egg-eating fixed upon them, writes as follows: "My fowls would gobble up every egg as soon as laid. It would not pay to keep an attendant on watch all the time, though the eggs were quite valuable. So I contrived a nest, the bottom of which sloped to the rear, and when an egg was dropped it rolled away, out of sight. I tried another method to disgust the tried another method to diggust the
fowls. An egg with the meat blown out, and the shell flled with mustard and cayenne pepper, almost convinced them that eggs were not good to eat." An other method of circumventing valuable fowls, and saving their eggs, is credited to Mr. J. S. A. Baker: adopted the following plan: Place a strong nail keg bottom up; saw a hole large enough for a fowl to enter. Make a diaphragm of any stout fabric, such as sacking, old carpet or leather, leaving a hole in the middle just large enough for an egg to pass down on to some soft substance that will break the fall. Tack a hoop around on the platform, for the open end of the keg to fit over to prevent the eggs from rolling away when the keg is raised to secure them." Ordinary fowls are not worth the trouble, but eggs of high-priced ones may be saved by such a device.-American Poultry Yard.

## Oplors in Poultry.

Many new varieties of poultry are claiming attention, particularly the new white varieties, as the White Plymouth Rocks and White Wyandottes. They are no doubt as valuable varieties as the colored, but nothing more is claimed for them than for the colored, further than the fact that they are more easily bred true to color. This is of little consequence to the farmer who does not breed for the show pen. There is one thing in favor of colored varieties-an impurity of the blood or a cross is more easily detected. Only their forms, combs and legs distinguish the white varieties and their progeny when crossed with white mongrels, from each other, and one must be quite familiar with the breeds to detect the difference, and especially in case of the White Plymouth Rocks. When they get the least out of symmetry, they need a ticket on their tails to tel! what they are: "This is a White Plymouth Rock," or "this is a White Wyandotte."
White Javas and White Minorcas are now extensively advertised. I know of no special advantages claimed for these white breeds over the colored ones of the same name. For my part I would rather have the colored ones, especially the Black Minorcas; for the brilliant sheen of purple and green over the entire plumage form a conspicuous feature of these beautiful fowls. White Minorcas are only new to this country so far as I remember.
As the rigors of winter advance increase the supply of animal food and green food to poultry. To do so prevents feather-eating and soft-shelled eggs.-Rural New Yorker.

Poultry Notes.
Gather the droppings around under the roosts every two or three days if you would have your poultry free from the scourge of scaly legs.
A correspondent of the Poultry Monthly says he killed a fine lot of valuable chicks
by use of a remedy for lice conslsting of lard, snuff and sulphur, and warns others to keep sulphur away from young chickens. A generous feed of corn in the evening will induce turkeys and ducks to come home to roost. Let them no off in the morning with a light breakfast.
There are about 102,272,000 fowls in the United States, yet the value of eggs brought to this country from abroad is considerably over $\$ 1,000,000$ annually.
The Black Cochins are thoroughbred fowls whose merits are numerous. Notwithstanding the fact that they have been bred and anhibited for years, they are comparativel Any tind Any kind of straw, chopped into lengths
of about six inches, which is done by passof about six inches, which is done by passing it through a fudder cutter, makes ex-
cellent litter in which the fowls can seratch. Leaves are not easily obtained now, and Leaves are not easily obtained now, and
straw is the next best material. Use plenty of it, placing at least two inches thickness
of it on the floor, and if a handful of grain is thrown therein the hens will keep busy.


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Is due to the location at these Yards of EIGET PACEING HOUSES, with an aggregate daily capaitty of 8,300 cattle, and 27,200 hogs, and the regular attendance and sharp competiNew York and Boston. All the thirteen reads runniag inte Kansas City have direct conneotion with the Yards, affording the best accommodations for stock coming from the great grazing grounds of all the Western States and Territories, and also for stock destined for Eastern markets.

The business of the Yards is done syatematically, and with the utmost promptness, so that there is no delay and no olashing, and stoekmen have found hore, and will continue to find, that they get all their stock is worth, with the least possible delay
C. F. MORSE,
F. F. RICEARDSON,
E. P. OHITD;

Superintendent.
(

## AUCTION SALE!

OF 70 HEAD OF HOLSTEIIF FIIESIAMS



BUCHANAN BROS., 225 Dearborn Street, Chicago.

## KANSAS FAIRS.

A complete list of the fairs to be held in Kansas this year:
${ }^{\text {Kananas }} \mathbf{7}$ State Fatr Assoctation-Topeka, September Weetern
National Falr Aasociation-Lawrence,
Beptember $3-8$.
 guat $23-81$.
Bourbo County Fatr Assoctation-Fort Scott, September 11-14.
Brom
Exposition Asboclation-Hiawatha, september F-7. Fatr Assoclation-Grenola, septemChaso County Agricultural soolety-(Cottonwood
 tionerokee County Agrientitural and stooek Assocta-
 tombere County Falr Assoctation-Burlington, Septomber 10-14. Conty Fatr and Driving Park Assoclation Kepasase Contrial Agricultural Soclety-Junction City Elillin County. Agrioultural Boclety-Hays City, oc-
 Hember Yicounty Falr Assoolation-Newton, Septem-


 Cling Couty Fatr Assoclation - Mound City, sepPleasanton Fair Assoctation-Pleasanton, septem-
 Montgomery County Agrtcuitural Soclety -Inde-

 ${ }^{\text {guts }}$ 28-8.8. . ${ }^{\text {ounty }}$ Fatr Assectation -Burlipgame, Sep-
Onborne County Falr Assoclation - Obborne, Sop Ottawacounty Fatr Aesootation and Mechanics' InPalilips County Agricultural and Mechanical Assoclation - Phillipaburg, september 18-21.
Pratt Citt County Agricaltural Socety-Pratt Hutchinson Fair Association-Hutchinson, OctoBlue and Kanses Falley Agricultural Soclety-Manhattan, September 18-21. Platinvilie Fair Asbociation - Plainville, SoptemRush County Industrial Fair Assoclation--LaCrosse, Sailne County
Agricultural, Horticultural and $\mathrm{Me}-$
chanical Association-Salina, September 11-14.
smith County Agricultural Soclety-Smith Center,
 Wabhington County Live Stock, Agricultural and Mechantcal Asboclation-Grenleat, september 12-14.
Neoho Valley Dlstrict Fair Asboclation-Neosho

## Book Notices.

Pansy.-The Pansy for July is as fresh and entertaining as ever. It is a most excellent magazine for young folks from 8 to 14. Especially suitable for Sunday reading. $\$ 1$ year. The publishers, D. Lothrop company, Boston, will send a specimen on receipt of 5 cents in stamps.

The pig mast be kept growing. Early maturity is always an importantitem, with pigs especially, and if we expect to have the pigs ready for market in December, they must be pushed along, and it is quite an item to give hem a start now; with plenty of grass, and s light feed of bran slop night and merning a goed growth can be secured. Corn is not necessary; in fact it adds to the expense without giving a sufficiently better increase in the stock to make the expense profitable

Humore run riot in the blood at this season. Hood's Sarsaparilla expels every im purity and vitalizes and enriches the blood.

Make a set of harness fit properly and a horse can wear it without distress, provided that it is also kept decently clean and com-

Send for a circular of the music depart ment of Campbell Normal University, Holton, Ras
$\$ 110$ will pay for board, room and tultion for forty weeks at Campbell Normal University. Board in the family of the Presi-

For Sale.
For the benefit of the parties who circulate the story that I am out of the Hereford business, I now offer registered bulls at $\$ 50$ business, I now offer registered
to
E. S. Shockeky, Topeka, Kas.

Farm Loans.
Ready money, lowest rates, and every accommodation on real estate loans; one to five years time as best suits borrower.
T. E. Bowman \& Co.,

116 W. Sixth street, Topeka, Kas.
This paper is now a twenty-page weekly and only costs $\$ 1$ a year. Compare it with any farm journal in America.

Thit Markitis. By Telegraph, July 16, 1888. LIVE mTOOK MAREETS.
st. Louis.
GATMLR-Receipts 400 , shipments 1,400. Mar
 steers 840 aj 00 , medium to ohoice butohers
steers
$6830 a 485$, fair to feeders $820037 \%$, fair to good stookers anc
HOGB-Reoeipts 1,200 , shipments 600 . MarKet steady and firm. Choloe heavi and butohers 8 elections ${ }^{56} 70$.as 80 , medium to prime $\$ 4802560060 \mathrm{ab} 75$, ordinary to best light grade 8HERPP-Reeelpta 500, shipments 1,000 . Mar-
ket firm. Cllpped sheep, 8200 at 00 . Chicagen The Drovers' Jeurnal reports:
CATMLE
 $425 a 475$;
 HOGS-Recelpts 20,000 . Market 50 lower. SHEEP, Receipts $\quad 5,000$ Market steady; Native muttons, 8275 F 250 ;
lambs, per cwt., 8500 ab 50 .

## Kansas Oity.

BuATTLE-Receipts 5,500, shipments 1,700. Bulk of supply good rangers. Market slow haioe corn-fed 85250550 , common to medium
 range steers ${ }^{\text {HoGS- Receipts } 1,400 \text {. Fresh receipts very }}$
light and marke strong to bs higher. Good light and market strong to bo highor. Good 540, \&kips and plgs 8300 mon 00 to meatum 85 10a
SHEEP-Recipt 1,000 , hipments 185. Markot steady. Good to ehoice muttons $\$ 300 \mathrm{Oa55}$,
common to medium $\$ 1509250$. PRODUOE MABRETV. New York.
WHEAT-10 higher. No. 2 red, $893 / 4891 / 2 \mathrm{cel}$ CORN-Quiet but firm. No. 2, $541 / \mathrm{a}$ ab5c deliv-
ered. erea. St. Louts.
FLOUR-More active and firm.
CORN-Cash, 45a451/c; July, 45\%/s.
OATS-Cash, 23 ; July, $27 \Omega 271 / \mathrm{sc}$.
RARENEY-Narket.
Ohtoago.
Cash quotations were an follows:
WHEAT-NO. 2 spring, $81881 \% \mathrm{~N}$; 2.2 red,
OORN-No. 2, 46\%c.
OYTB-No. 2, $30 \%$ a31c.


BUTTER-Fair. Creamery, 15 $1 / 2190$; dairy EGGS-Higher and wanted. Candled, $141 / 3 \mathrm{a}$ Kansas Oity.
WHEAT-Receiptsat regularelevators since bust report $\dddot{2}$ bushels; withdrawals,
bushele, leaving stook in store as reported to There was a very quiet tharket on 'change today, with no sales on the call of any of the dif-
ferent grades, either for cash or future delivery. No. 2 red winter, cash. no bids nor
offerings; July, 681 co bid , 69 a asked. No 3 red winter, cash, no bids nor offerings; July, 63 c
CORN-Receipts at regular elevators since
last report.... bushels; withdrawals, 4,657 bust report, $\dddot{3}$ bushels; withdrawais,
bushels, leaving stock in store as reported to
the Board of Trade to-day, 63,040 bushels. Market steady but merely nominalon' change grades either for cash or future delivery. No.
2 cash, no bids, 430 asked; July, $41 \mathrm{bid}, ~$
OATS-No. 2 cash, no bids nor offerings. FLOUR-Quiet, Quetations are for ingestab-
Hished brandis in car lots, per bble in

 OIL-CAK E-Per 100 1bs. sackeas. f. o. b., 8125 ;
8100 per 1,000 lbs.; 82100 per ton; car lots, SEEDS -W 0 quote: Flaxseed. 93 a 95 c per bu on a basis of pure; castor beans, 8100 for prial. - Receipts, old, $\quad$ cars; new, 83 cars.
Market weak. New, $800700 ;$ old, fancy,
 8100 A 200 . hoice, $12 \mathrm{al13c} \mathrm{;} \mathrm{store-packed}, \mathrm{choice}$, CHEESE-Wequote: Full oream, twins, 100 fug ieam, Young America, 103 yc C. $101 / 3 \mathrm{p}$ per dozen for strictly fresh.
PROVISIONS-Following quota round lots. Job lots usually 3 ichighers are for cured meats (oanvassed or plain): Hams $111 / \mathrm{s}_{\mathrm{s}}$, meats: clear rib sides 8755 , long clear sides
3745 , shoulders 8600 , short clear sides 8790 . Smoked meats: clear rib sides 8822 , long clear sides. 8 10, shoulders 8875 , short clear sides
885 . Barrel meats: mess pork 813 50. Choloe
tite tierce lard, 8725.

Topeka Markets.
PRODUCE

weekly by W . W . Manspeaker \& Co., 711 Kansas | weekly by (Wholesale price). |
| :--- |
| avenue. (What., |
| Bur Kansas | Butter, per lb........................ 8

Eggs (freah) per dozz...........
Beans, white nat
Beans, white navy, H. P.........................................
Peets....

THE STATB YOMMAL SCHOOL
ENROLLS 875 PUPILS FOR THE YEAR. 82 Kansas Counties and 15 States and Territories Represented

Teachers seeking a school in which to prepare themselves more fully for their work, will find anequalled opportunities at the State Normal chool. Young men and women who may intend nowledge of all tho such facilitles for obtaining a knowledge of all that is latest and best in appl1 Parents desiring a school in which the State. will recelve a liberal adncation and at the ane ime become thoronghly fitted for the home profession of teaching are reminded that it cen be accomplished here with less expense than at any other school in Kansas
Rallioad fare in excess of $\$ 3$ is refunded to a Dipas students. Turtion Free.
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ond all inform, at Orden, Iowa, Oronart and all minormation, mallod mpon roportion

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400 ACRES OF Eood anaiss move


Holstein - Friesian Cattle Of European Herd Book Registry.

 oifers in this herd with weekic butterior. Cows and
4 pounds to 19 pounds 103 ounces; milk records fom 50 to
 [Mention this paper.]
Consolidated Barb Wira COMPANY,

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manufacturers of BarbWire Fencing Staples, ETC.

Sold more largely in Kansas beoause it is the
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 овAcco Best(Thewing obacco in the WoridIf you want a FINE QuqLity सEWing TOBACco Joll TAR will suit you. Ask your dealer Jno Finzers\&ross $\begin{gathered}\text { Loussille, } K\end{gathered}$
RIVERVIEW The Prettiest Young City of the Smoky Valley.

Beautiful Springs, Lake, and also, what the name implies,
RIVER VIEW. Bula home iv or farm adjoining Riverview. or address Hays City HUGH E. THOMPSON, BROOMCORN

REFERENCES:-Kansas FARMER Co. Topeka, Kas, Boatmen's Bank, St. Louis ; GENERAL AGENTS FOR COOPER'S SHEEP DIP. CF We guarantee sale and full returns inside of TEN DAYS from receipt of shipment.

## Che Feterinarian.

${ }^{\text {[The }}$ paragraphe in this departmont are
SWEENY.-What is good for atrophy of the muscles of the shoulders, commonly called sweeny? Should an animal be worked when afflicted with it? [For atrophy of the muscles there is nothing better than Jennings' VeterinLiniment.]
Lice on Cattle.-Please tell us what will kill lice on cattle? [A safe and sure remedy is one part of flower of :and sure remedy is one part of fower of mixed, and applied by rubbing thorcoughly in. If the cattle are properly stabled, no harm will come from applying to the whole body at a single application, otherwise the ointment should be applied to only a portion of the body and so from day to day until the lice have been removed.]
Condition Powder.-Please give a recipe for making condition powders that will give horses with the epizootic or pink eye an appetite, and be safe to feed to mares with foal. [The following powders may be given with safety: Pulverized sulphate of soda, 6 ounces; pulverized gentian root, 6 ounces; pulverized pimento berries, 4 ounces; pulverized nitrate of potassium, 6 ounces; upulverized sulphate of iron, 8 ounces; pulverized ginger root, 4 ounces; mix well together and give tablespoonful in spoft feed night and morning.
Diarriea in a Cow.-I have a cow that has the scours. She began to get in this condition last February while wintering on corn fodder. She had a ccalf about the first of April and continued to run down so she is very poor now. She runs on grass and gets three guarts red shorts twice a day. She has a good appetite and an unmatural desire for salt. She uses a great deal of it. [Considerable care must be exercised in feeding the cow. We think it would be best to feed her on hay, which must not be coarse. The quantity of shorts might be reduced by one-half, and the chill taken off all the one-haif, and thes she drinks. Take of powdered galls six ounces and divide into twelve powders, one of which should be given to cow twice a day in her feed. If the effect does not appear to be sufficient, give the medicine three times a day. When the cow's bowels seem to have regained their natural condition then she may be turned 'on pasture, but at first only for two hours a day, so as to gradually accustom her to the change of diet.]
Disease of the Larynx.-I would like to ask your veterinarian's opinion sbout my stallion. I bought him little over a month ago. He is a large, fine looking horse, six years old. In three weeks after I got him I rode him six miles. I noticed when he would hurry un hill that he would breathe hard and short, but he was full of life, and had but little exercise, and I thought perhaps it was excitement which caused it. That day I started for home about 50 'clock, but in spite of all I could do to keep him cool and quiet he danced for about a half mile, and got very much excited and might have been heard breathing a long ways off; then he cooled down and seemed to breathe all right until he got home, and until he was rode and excited again. Now, I would like to know if he has got the heaves. If he has not the heaves what makes him breathe so hard. [We are of opinion that your horse is what is commonly called a "roarer," a condition due to disease of the upper part of the windpipe. . Of course it would take a personal examination to confirm this opinion, and if

GHICAGO.
KANSAS CITY.
ST. LOUIS. JAMES HI CAMPBEIT \& CO.. Live Stock Commission Merchants,

FOR THE SALE OF CATTLE, HOGS AND SHEEP.

Le Unequaled facilitles for handiling oonsignments of Stook in either of the above oitles. Cor
respondenoe invitod. Market reports furnished free. Refer to Pubilishers KANBAB FARMER.
there is a competent veterinary surgeon near you, we would advise you to consult him. If he is suffering from this disease he will transmit it to his progeny.]
Manure that is "fire-fanging" (as it will sometimes do when the heap is very large) should be turned over, as the heating process, if allowed to continue, may cause a loss of ammonia.

O-h-0-0! O-h-0-0!! O-h-0-0!!!
Don't sneeze, sneeze, hawk, hawk, spit, blow, and disgust everybody with your offensive breath. If you have acrid, watery discharges from the nose and eyes, throat ringing noises in head, splitting headacie and other symptoms of nasal catarrh, re member that the manufacturers of Dr. Sage's Catarrh Remedy offer, in good faith, $\$ 500$ reward for a case of catarrh which they cannot cure. The Remedy is sold by druggists at only 50 cents.

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To prove It , wil ship to any one, from stock farm,
oland-Chins bow, bred to bring pigs all one sex, for
 absolutely accurate in reeutits-cannot fail. Plan
oftered after proving. Reanit of ten years trial. Gaar


 We use only the ohoicest animals of the most
approved pedigree, hence our herd is bred to approved pedigree,
a very high state or perfection. Piss in pair
not akin. stook or all ages and sows bred for not akin. stock or al ages and sows bred for
J. M. BROWNING, Perry, Pike Co., Ill.

POLAND - CHINA PIGS
135 FOR SALE. Sired by six first-class Loars,
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FOR SALE. THE GOLDEN BELT HERD OF Thoroughbred Poland-Chinas
 This herd comprises
the rlchest blood to be the richest blood to be
found ln the United
Statee, and in uniform. ity and siyle has no
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ailagea and etther gex
for Bale. Stock shlpped
 istered in American P.C. Record. Pedigree with each
Bale. W. TRUESDELL, LyOns, Kas. Pad Dum Pa P Paus-Mina.
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100 PIGS FOR SALE!
NEW BOARS: - Young Amerion 3n1, C. R., noted show hog and breeder; nine sweep-
stakes; sire of sweepstakes hog at Chicago
fat stock show. Lord Corwin th, 1651; digy fat stock show. Lord Corwin 4th, 1651 ; daisy
show heg, of the highest premium blood.
Lamper show heg, of the highest premium blood.
Lampe's Tom Corwin ${ }^{2 / 207}$; gith-edge premium
pedigree. Sows:-Black Rosas, Gold Dust, pedigree. SOWS: Black Rosag, Gold Dust,
Double Corwins, Black Bees, Black Beautys
Buckeeres, Dimples, Stemwinders, ets. Roys Buckee corwins, Dimplees, Stem Besinders, Black. Royal
blood, gilt-edge pedigrees. blod, gilt-edge pedigrees.
Shiped to fifteen States
counties in Kansas.
W. S. HANNA, otrawa,

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Jas. Mains, Oskaloosa, (Jefferson Co.), Kas.,
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1s located two and ahalf miles southeastor Oikaloosi,
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ready, for sale nt prices that wril sutt the times. Also
ome tail sow now ready to breed or will be bred if
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I have thirty breeding sows, all matured animals and I have thity breeding sows, all matured antmals and peliendt1 Imported boars, headed by the splendits prize-
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ENGLISH BERESEIRES.


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 SHIRE SWINE. Is a credit to Locust Greve Herd. $\begin{aligned} & \text { Nothing sent out but what } \\ & \text { Indildmal excel- }\end{aligned}$ lence combined with purtty of breeding, is my motto.
Prices to pondence and the quality of atock offered. Corres.
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BERRYTON, Shawnee Co., KANSAS. My sows represent the Royal Duchess, Sallie,
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Select terd and the breed. Correapondence in regard
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He is the only bull known to his owner whose of all Jersey bull ords of thefr duaghterg, vizi M Meroury, Stoke
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Including representatives o
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Heited, as we have just what you want and at fair pricos.


Tho Imported CLyDesdale stallion
KNIGHT OF HARRIS 995
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The property of H. W. McA FEEE, will make
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 Tested on Irland of Jersey at rate
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Substance, flesh, early maturity and good feeding quallty the objeots sought. The

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Memphis Route,
KANSAS CITY, FT. SCOTT \& MEMPHIS R. R.
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route to Kansai City and all points East North route to Kansas City and all points East, North
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THE STRAY LIST.

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 Froken antraine ean be takeen op at any tome tia the
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astice of the of ${ }^{\text {a }}$ yonar after $a$ atray is taken up, the

 They whail cino determine the cost of keeptnge, and
 of taling up. posting and taking care of the atray, ane halr or the rematindar of the ralue of nuch stray.
 FOR WEEK ENDING JULY 5, 1888.

Marshall county-J, F. Wright, clerk. STEER-Taken up by Peter Carney, in Noble tp.
P. O. Vermillion), May 24,1888 , one red steer witi white. strim on rligit hip, white front feet, white o
oldes of legs and star in forehead; valued at 815 .

Wichita county-H. A. Platt, clerk.
PONY-Taken up by Wataon Beeman, in Edwards
tp, May 2 , 1888, one bay mare pony colt, star in fore-
head; valued at si8. COLT-By bame. one 1 -year-old bay mare colt, one
whtte foot; valued at 11 . Hamilton county-Thos. H F Ford, clerk. HEIFER-Taken up by A. A. Rogers, In Greeley
ap., June 25,1888 , one red 1 -year-old heifer, tip of tall ofi, Yalued at 85 .
HEIFER $-B y$ same, one red 1 -year-old hetfer, HEEIFER-By same, one red 1 -year-old heifer, no
marks or brans; valued at 85. .
HEIFER-By bame, one red and white 1 year HIIFER-By same, one red and white 1 -year-ola
helfor, no marks; valued at
COW AND CAL
 old, no marks, calf at side; valued at 115 .
Shawnee county-D. N. Burdge, clerk. STEER-Taken up by Peter SIm, in Misaston tp.
June 26, 1888, one red and white steer, branded with June 26,1 on one red and 992 on lert' side, Indistinct
letter and on right hip;
Johnson county-W. M. Adams, clerk. MULE-Taken up by J. W. Willams, In Olathe tp.,
(P. O. Olathe), June i8, 1888. one mare mule, sup,
posed to be) posed to be 14 years old, thin in Hesh, two shoes
behind and one in front; valued at g20. FOK WEEK ENDING JULY $12,1888$. Butler county-T. O. Castle, clerk. 2 CLTTS-Taken up by C. F. Ayees, in Fatrmount
tp., May 9, 1888, two bay mare colts, 2 years old, no
marks or brande; valued at 820 each. FOR WEEK ENDING JULT 19, 1888. Davis county-P. V. Trovinger, clerk. MARE-Taken up by R. Waters, In Llberty tp, May
17,1888 , one sorrel mare, 13 hands high, 3 y years old, 17,1888 , one sorrel mare, 13 hands high, 3 years ord,
welght about 750 pounds, small blaze in face, no marks or brands; ralued at
MARE-Taken up by R. tp., June 6, 1888, one roan mare. Hampton, In Lands hith, 6 yeerts old, one winter front toot, wh
on left htp; valued at $\# 0$.

Pratt county-J. J. Waggoner, clerk. MULE-Taken up by A. P. Ome, in Richland tp., no marks or brands; valued at 835 .
Johnson county-W. M. Adams, clerk.
 hands high, beavy mane and tati, no shoes on, travels
very lame, scar on right itp near the tall, loft hock
cut; valued at \&30.


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$\qquad$

Crawford county-J. C. Gove, clerk.
 Nemaha county-W. E. Young, clerk. STEER-Taken up by Conrad Moyer, in Washing
on tp., (P. O. Bazel), April 27, 1888, one red and whte potted steer, some white in forehead, no other mark


Marion county-E. J. Walton, clerk. COLT-Taken up by Jacob Funk, Jr., (P. O. Hille
boro), May 9, 188, one 1 - year-old black colt, medium oro, nay 9.1888 , one $1-1$.
ize, no marks or brands.
Washington county-John E. Pickard, clerk. STEER-Taken up by R. Prultt, In Grant tp., on $\substack{\text { sTB } \\ \text { pale r } \\ 10 \\ 1}$
Fruit

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| (Continued from page 1.) |
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