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Agricultural Matters.

FARM AND FIELD NOTES.

Like produces like, but in many cases the likeness more nearly resembles the undesirable features of the sire or dam.

Fowls that are kept supplied with gravel, charcoal, and green food are not often troubled with either indigestion, or diarri ce a.

Don't allow your hens much time to stand around on one foot, studying up mischief. Keep them so busy that they won't have time to think of eating eggs.

The parasites imperted by the California horticulturists from Australia to destory scale lice, are said to have survived the voyage and in good condition and to be thriving in counties where they have been introduced.

Where one plants potatoes by hand, says the N. E. Farmer, the seed may be started a little and still-dropped without any injury to the little sprout; but when machinery is used to do the dropping, the only safe way is to have the seed unsprouted, as it is stirred around in the potato planter altogether too much for the good of the

In reference to the contamination of wells, soaking or filtering through the earth-the well draws toward the bottom, not the top. Farmers often say: "My well cannot be affected by my barn yard, etc., because the well is the highest;" that is, the ground at the well is the highest; never thinking that the bottom of the well is much lower, and that the draft will be toward that point.

Horses' shoulders sore and galled indicate gross neglect, says a correspondent of the Weekly Tribune. With well fitting collars, not too loose, and snug-fitting hames, which bring the draft squarely on the shoulders: elean, solid, hard, leather lined collars, with no woolen about them and with tug hooks properly placed, there will be no chafing and no necessity for hurting the skin by using oak bark decoctions or brine. shoulders need washing with cold water and spap every evening, that is all.

Making Clover Hay.

The ideal way to make the best clover hay is to mow the clover when in full bloom, and as soon as it is well wilted rake and put into small but high cocks of about 100 pounds each, cured weight. These should stand three or four days and then be turned bottom up, after the dew is dried off in the morning.

that the clover will not wilt so as to be injured by the dew that night. The next day, when it gets just dry enough, which is usually about 3 o'clock, I rake it into large windrows. After my machine I can rake it in such a way as to turn nearly all the heads in and the butts out to take the dew. About 9 o'clock the next day when Such hay drawn in the heat of the day will the windrows are dry and warm on top, we

THE NEW ERA EXPOSITION,

TO BE HELD AT ST. JOSEPH, MO., IN SEPTEMBER. [SEE ARTICLE ON PAGE 5.]

be choice if no rain falls on the cocks. But | turn them over with forks, just roll them that little "if" is just where the trouble comes in. There is too much risk in this curing in the cock method, and then it takes a good deal of labor to put the clover up nicely, as it must be done to shed water. One may use caps to cover the cocks. He is then quite independent of the weather, and can make choice hay by this method, if he will build the cocks so they will be no larger at the base after settling than half way up. This plan will do for a fancy farmer who doesn't have to look closely for the profits. For the great majority of farmers it is too costly. They do not get enough out of their hay to warrant the

In late years I have omitted the cocking up almost entirely, but nevertheless I think I have made choice clover hay. This is about my way: When the weather is clearing after a storm, and the prospect is good for several fair days, I mow six acres in the afternoon, beginning about two o'clock. It is so cold and partly cloudy, perhaps, then ing w can be told to old growers of clover,

over about as fast as we can walk. In an hour or so they will be quite dry and warm clear through, and then we rush the hav into the barn with all the haste possible. While my men are drawing in in the afternoon I mow some more, if the weather prospects are still good, but not so much this time, as there is now more danger of a storm coming. The time to let out is at the beginning of a fair spell.

You will notice that the simple turning over of the windrews is all the hand labor I put en the crop until it is ready to go into the barn, instead of days of hard labor in cocking up, putting on or taking off caps, etc., my man is at work in the potato field, or among the berries, where he can earn me very much more money. Of course if at any time during the days the hay is out the weather becomes threatening, all hands are called to cock up, or save it the best we can, under the circumstances, but we put hand labor on the crop only when necessery. Noth-

but some suggestions may aid beginners. Cut the clover when in full bloom if you want the choicest hay. This is vastly more important than the saving of every individual leaf when you are handling it. If cut when half the blossoms are turned it will cure much easier, but the value will be decidedly injured. I do not say this from analysis, but from long experience in feeding. Those who leave their clover until nearly all the heads are brown simply ruin it.

Some friends have written me: "But you are a little farmer; what are we to do with our fifty or 100 acres of clover? We cannot possibly get it all in so soon." Is there a law compelling one to raise more of a crop than he save properly. I would not. I should have a field of timothy to cut later, or make up the shortage in fedder with Hungarian grass or ensilage corn, or possibly a silo for the clover would be the best way

Always draw in clover hay in the hottest part of the day. When it grows cooler toward night your hay grows damper, taking the water from the air which can no longer hold so much in suspension. Under ordinary circumstances do not draw in after 6 p. m. Have your barn tight, also, and as soon as the last load is in shut all windows and doors, so as to keep the cooler night air out. The warm air rising from your haymows, if it strikes cooler air, will deposit its moisture on the surface of your hay. I trample clover hay as little as possible when putting it in the bays. The next morning, before drawing in more, we trample solidly. You have doubtless noticed that if there is any poor hay in the bay it is where the man stood who did the pitching back. Avoid standing there as much as you can. Where a horse fork is used put strong planks across the beams, over the center of the mow, and let the fork discharge the hay on these planks; then two men can toss it loosely to either end of the bay, and you will not find the hay ruined in the center of the bay where the heavy forkfuls have fallen.

It is on just the same principle that I avoid as far as possible trampling the hay when it is thrown in.

Some good farmers in southern Ohio and elsewhere cut heavy clover in full bloom and draw it in the same day. I cannot do this in our climate, but in some ssasons we can cut one afternoon and draw in the next. In a dry year there is much less sap in the clover, In a dry time it will cure much quicker. Men's ideas of a heavy crop differ. With one of my heavy crops I never want to see it so dry that the under side of the clover ever dries out in the middle of the day, when it is standing. To cure a crop of two loads to the acre and another of four are very different matters. A ton-to-the-acre man, or one who cuts late, may laugh at the idea that clover cannot be cut and put up in the barn the same day safely. Many are using tedders to hasten the curing of heavy clover. With a side-cut machine they are usually needed. With my machine, which leaves the clover about as loose as when standing, neither horses nor machine going on it after it is cut, they are not needed. I can cut and tedder the hay at the same time.

time.

To determine the condition of the partly To determine the condition of the partly cured clover I have found much help in taking a half-d zen stalks and twisting them very tightly. The mere or less (or none at all) sap that I can twist out shows far better than the looks of the clover how much it is cured. They may be too full of sap to put into the barn, and still the hay appear quite dry. I suspect I cure my clover more than some. I do not care to handle an extra ton of water on each acre, only to have it sweat and steam in the mow. It seems as well to let the air take this water while the hay is in the field as later, and save me useless litting. But I want the hay green enough so it will heat some so as to settle solidly,—
T. B. Terry, in Ohio Farmer.

The Stock Interest.

THOROUGHBRED STOCK SALES.

Dates claimed only for sales which are advertise r are to be advertised, in this paper.

OCTOBER 8-John Lewis, Short-horns, Miami, OBER 9 - John Lewis, Poland - Chinas,

"SHEEPMEN, TAKE WARNING."

Some two or three years since I contributed to the columns of the Michigan Farmer an article under the foregoing head, and I would now repeat the warning with increased emphasis. My principal reason for doing this is what I consider the impending danger to our sheep industry from the persistent effort of a few breeders to get up a "boom" in the interest of the Shropshire sheep. Let me premise by stating that I have no quarrel wi h the Shropshire sheep. I fully indorse the assertion of Mr. Button in a recent issue of the Farmer, that "there is plenty of room for both the breeders of Shropshires and Merinos." They are two distinct and very different breeds of sheep; and should each be bred separately, and bred with distinct reference to that purpose for which nature has designed themthe one for wool and the other for mutton. The warning which I desire to enforce in this article is directed against the mixing and mingling of the blood of the two races, so widely different in their nature. It is just as necessary that the world be fed as clothed, and vice versa, and while the prime object of the breeders of the Merino sheep should be to clothe the world, the prime object of the breeder of the Shropshire should be to feed the world, and in no case should these objects be lost sight of. So long as these objects are kept in view there will be no rivalry and should be no jealousy between the two classes of breeders. But knowing how natural and easy it is for feelings of rivalry to spring up in the human mind, I desire here to caution the Merino breeders against the folly of attempting to rival the Shropshire as a mutton sheep; and I would with equal emphasis caution the Shropshire breeders against the hopeless attempt to rival the Merinos in the production of wool.

I speak from a disinterested standpoint, as I am in no sense a speculator in pedigrees or blood, and generally purchase my bucks from others, preferring to keep an average farmer's flock, such as any farmer may keep without extra care or expense, and always keeping the weight of my fleeces just below the "docking" line.

Dismissing my Shropshire friends with my best wishes for their success in the breeding of mutton sheep, I now desire to address myself pointedly to the Merino breeders of the State. You have in your hands an important trust, and upon you rests a deep responsibility. Great credit is due to the breeders of the American Merino sheep, and in no States of the American Union have their efforts been crowned with such eminent success as in Vermont, view the subject it would be invidious assumption for either of these three States to assume superiority over the others, for in all these States are to be found the very best sheep, not only of our own country but of the whole inhabited world.

Then I say, don't be guilty of envying the Shropshires for any peculiar merit that belongs to them, or of contaminating the blood of the best race of sheep in the world by the introduction of foreign blood, with the futile hope of improving the American Merino. Think what an effort of time and money and thought and care it has cost for more than forty years, to bring the average weight of fleece from less than three pounds, to more than six, with a corresponding improvement in quality: The last Michigan Farmer now before

the number of sheep shorn in these excuse in the fact that so large a share townships in 1888 was 1,682,260, producing 10,207,791 pounds of wool, and being an average of six pounds and sixhundredths to the fleece. But let us glance a little further back. Before me lies a report of the Treasury Depart- ject. It is an unfortunate trait in the ment for 1888, entitled "Wool and the Manufactures of Wool." It is a most exhaustive work, containing over 300 pages. Ask your member of Congress to send it to you. From it we learn that in 1810 the sheep of the country were estimated at 10,000,000 and their product in wool at 13,000,000 pounds. In 1840 the number of sheep is given at 19,311.374, and the product in wool at 35,000,000 pounds, still being considerably short of two pounds per fleece. In 1850 the number of sheep had increased to 21.723,220, and the wool clip to 52,516,959 pounds, still being considerably less than two and a half pounds per head, but double that of forty years

Now in Michigan we have (approximately) 2,000,000 sheep and 12,000,000 pounds of wool, showing that in less than forty years we have much more than doubled the weight of fleece. I present these landmarks to show what the disciples of Humphrey and Jarvis have done for the country by forty years' persistent effort in the pursuit of one steady course; and I desire here to emphasize the assertion that a departure from that straightforward course for less than a quarter of that time would destroy the character of the best sheep that the world ever saw. It is a lofty eminence that the Merino breeders of the country occupy to-day, nor is it strange that the breeders of other sheep should wish to share the honors with them. It is no doubt amusing to the breeders of our registered Merino flocks, whose ewes' fleeces range from twelve to twenty-six pounds. and bucks from twenty-five to forty, to read the discussion of the Shropshire fleece, where from six to fifteen pounds seems to be the extreme range, and this too upon a carcass that weighs a third more and eats a third more than does the average Merino. It should always be borne in mind that the chief cost of the production of wool is the food consumed by the sheep. Why then, in the name of common sense and reason, should our Merino breeders wish to exchange their stock for one which consumes a third more food to produce a

third less wool? But some have an idea that by crossing the two breeds together they can combine the good qualities of both. And right here lies the danger. It is no new experiment. It has been tried time and again, and the result been found to be exactly opposite to what was expected. It was the good qualities that were bred out, and the faults that were bred in. But there is a plan which has its advocates among our sheepmen, of raising a flock of crossbred lambs, to be sold to the butcher in the fall; but were this plan generally adopted it would be seen at a glance that it involves the destruction of the New York and Michigan. So far as I offspring of our flocks. Who can doubt for a moment that such a plan generally persisted in would in a very few years prove the destruction of the wool industry of our State? Something has already been done in that direction, and may we not attribute in part, to that fact the decrease of half a million of sheep in Michigan within the last five years? Can we afford to encourage this decrease in the numbers of our flocks?

Every State east of the Mississippi is on the down grade in the number of its flocks, and our only hope of ever being able to produce the wool we consume and render our country independent of the outside world, lies far away upon the great Western plains and upon the foot-hills of our far-off Western mountains. Ohio alone of all the States east of the Mississippi, produces wool enough to clothe its own people. It is me states in its "Crop Report" that a burning shame that Michigan does

returns from 928 townships show that not do likewise; but there is a show of of our population is engaged in lumbering and mining occupations.

This article is not written to invite controversy, for I shall not allow myself to be drawn into contention on the subhuman character to underrate the blessings we enjoy, and to overestimate those we do not possess, and it has ruined thousands. "'Tis distance lends enchantment to the view." Let the owners and breeders of the American Merino sheep in Michigan cherish an abiding confidence in the treasure they possess, and let them never consent to any contamination of the blood of their flocks, with the fruitless expectation of improving a breed which by common consent stands as champion of the world .- Old Genesee, in the Michigan Farmer.

The Big Four.

Armour & Co., Swift & Co., Nelson Morris & Co., and Hammond & Co., are the four large firms included in the title "Big Four," given to them by the public. The Drovers' Journal, the organ of the Chicago stock yards, gives an account of these firms, from which we select the following facts:

Nelson Morris began the shipment of dressed beef from Chicago to the Atlantic seaboard cities late in the fall of 1865. He bought cattle that were bony and rough looking on foot, but which were fat and heavy enough to make good New York cattle, as they were then called. These when hung up dressed would be wonderfully improved in appearance and were shipped in common box cars when the weather was supposed to be cold enough to keep the beef in good order, and such cattle when treated in this way made plenty of money when the weather was favorable. About the year 1870, Geo. W. Plummer began the shipment of dressed beef in refrigerator cars, as a matter of fact introducing the system as it stands today. Plummer formed a partnership with Geo. H. Hammond, of Detroit, and the firm of Hammond & Co. was set on foot. In 1877, G. F. Swift came to the Union stock yards as a cattle buyer from Massachusetts, where he had full experience in the fresh meat trade, and it did not take him long to take in the whole situation and prospects as to the dressed beef situation, and he promptly went into the business. In 1882 Armour & Co. went into the business, and Nelson Morris has done a heavy business in the dressed beef trade and canning business. All these parties worked openly upon common business principles. The business is open to all the world, to any one that chooses to take it up and carry it on; no patent or secret about it in any way, and there is no just ground of complaint against the system in any way. Messrs. Swift & Co. can slaughter at the Union stock yards 1,600 or 1,800 cattle daily if need be, and as many hogs and sheep in proportion, and can ship daily as many carcasses to any consuming point east of here in refrigerator cars of their own, doing this in any kind of weather and at all seasons. This establishment, also Armour & Co., have their own glue factory, so that every scrap of offal that comes from any animal they slaughter is utilized and made to count, and herein lies one great advantage in the system as they drive it.

Nelson Morris & Co. report their business of last year as follows:

	Cattle killed, of which 40 per cent. went into canned goods
ľ	canned goods
	Plants in other cities
	Number of refrigerator cars500
	Value of refrigerator cars
	Number of employes2,700
	Yearly pay-roli
	Value of product\$28,000,000
	TOL - 14 A CI TO Comilet & Co. 10

The items of G. F. Swift & Co. business were:

Refrigerator cars	1.600
Dressed beef cattle killed	483,065
Number of employes	3,000
For canning killed	136,135
Value of local plant	\$1,250,000
Value of refrigerator cara	\$1,500,000
Plante in other cities	\$1.500.UU
Yearly pay-roll	\$1,720,000
	6.00

The statistics of Hammond & Co. are: Number of employes...
Value of plant
Value...
Outside plant...
Yearly or any early ay-roll

The statistics herewith given of the beef business of Armour & Co. do not include the canned goods department, and the estimate of the value of the local plant only covers that portion of the packing house devoted to the slaughter of cattle:

Number of cattle slaughtered.....
Number of refrigerator cars.
Number of employes.
Value of plant.
Value of cars.
Outside plant.
Pay-roll.

The four beef houses here have invested in slaughter house property, refrigerator cars and distributing warehouses almost \$11,000,000. They give employment directly to 8,400 persons, and last year turned out a product valued at \$92,000,000.

Draft Horses.

Taking all things into consideration one of the animals of most importance to mankind is the draft horse. Not any especial breed of horses, but horses used for draft purposes, as many are so used that do not belong to any of the especial draft breeds.

The horse used for draft purposes furnishes the motive power to supply almost all human wants. He plows the fields of the world and carries the crops of the world to market. The product of farm, factory, workshop and mines are moved by horse-power, and without this, man's most faithful friend, the wheels of commerce would stop.

Such being the importance of the draft horse, it follows, or should follow as a matter of course, that great interest be taken to breed the best suited animals for this purpose.

It is here that the farmer is especially interested, for to him does the world look for its supply of horses, and to him that it is ready to pay a liberal price if he has what is wanted.

In saying that many horses are used for draft purposes that are not of draft breeds it is not meant in any way to approve a continuance of that system further than necessity requires. Any man who keeps his eyes open can see every day many light horses put to draft purposes for which they are utterly unsuited, simply because their owners cannot find good draft animals for their use. No man who wishes to buy a team for draft purposes takes a small team of choice. He only does so because he cannot find the large ones, and there is no farmer who has them to sell but knows how difficult it is to find a market for his under-sized horses. They are looked over and bid down until he is discouraged and his profits melt into thin air, while the big grades that his neighbor raised are snapped up at prices that seem almost fabulous.

It is not possible, and indeed not desirable, for every farmer to raise pureblood draft horses, but it is possible and eminently desirable that he raise grade drafts instead of the little undersized scrubs that are now such a drug on the market, and which must of necessity become more and more so from year to year. How can this be done? Simply by breeding your common mares to pure-blood stallions of any of the draft breeds. If this is done the colts will be large and salable. They are as easily and as cheaply raised as are the scrubs and worth twice as much when three years old.

These are good reasons for not using any but a pure-blood sire. A good stallion of pure blood may be depended upon to get celts which resemble him. This is because of the fact that being of a long line of continuous breeding of the same unmixed strain of blood, he is more prepotent, that is, has more power to imprint himself upon his offspring, than an animal of mixed blood, and this quality in the sire overcomes the weaker blood of the mare and brings a colt closely resembling its pure and stronger blooded parent.

A grade, or cross-bred sire cannot be lepended upon to do this. He may be individually an almost perfect animal, but there is no dependence upon his being a uniform getter of colts resembling himself; for, having impure blood in his veins, his get may resemble his maternal ancestors more than his paternal, and while he would unquestionably get some good colts, they would not be a uniform lot, and the farmer breeding his mares to such a sire could not be sure that he would be the lucky man in this equine.

On the other hand, it will not do to breed to a horse just because he has a good pedigree, but insist that he be born a good individual of his breed and also to show that he is a pure-blood.

If this line of policy is followed there is no business in which any common farmer can engage with a better show of being bandsomely paid for his labor. - Colman's Rural World.

In the Dairy.

THE BORN DAIRYMAN.

There are two ways of giving advice on the subject of the adaptability of a man for the dairy business. One is to paint everything about it in a rose color, and thus encourage all to enter it with a total disregard to the fitness of the man to the occupation he proposes to follow. That such advice, as a general thing, is utterly worthless, nay wickedly unfair, to the average class who would be influenced by it, is evident to the most careless observer.

The other line of advice is apt to take the other extreme and tell only of the trials and tribulations that naturally beset the man who once becomes the owner of a herd of cows. It is easy to sit down and conjure up all the troubles that may have overtaken the writer in his early days of enthusiasm in trying to run a dairy, especially if he undertook the job without the necessary preparatory course of experience or schooling. The above are the two ways of looking at dairy work that are the most attractive to writers who want to say something striking and that will draw the attention of indolent readers. There is, however, a middle course that comes very much nearer the truth than either of the above extremes. In the first place it must be remembered that the successful dairyman has a higher and more exacting field of labor than the general farmer. If a man is of an in lifferent, easy-going nature, without the spur of a driving ambition, then he had better confine himself to mixed crops, mixed stock, and a low average all around. Such a man may raise a little of this and a little of that, have bad luck here and good luck there, and if at the end of ten years he has been able to support his family and keep out of debt, he may be thankful for all the blessings that a kind Providence has bestowed upon him.

worry himself about a dairy. He is not the man to enjoy even success in the business, for he would always be counting the cost in worry and labor, and he would find plenty of it to put on the debit side of the account.

This country, however, contains a large number of men who possess what is vulgarly called "sand," that is pluck and staying qualities, who are ambitious to hew out their own fortune without regard to the labor and care it may cost. This class is above the average, and they are the men who have made America what it is and who will push it still forward in the grand march of mighty deeds.

To such men we say the farm presents no grander field for great results, whether it be in money-making or a that a long period when extra feeding and thence to the mouth, where it is Pacific railway in Colorado.

natural reputation, than the dairy. What other rural pursuit contains onehalf the men whose names ar) familiar to every reader of farm papers. What class of breeders have made more money or secured higher honors than those engaged in breeding dairy cattle. If money is the sole result desired how can this be compassed better than with a well-regulated dairy. We could give dozens of names of men who have amassed splendid fortunes out of the dairy. while we venture the opinion based on facts that have come under our own observation that at least three farms have been paid for by the dairy to one that has got out of debt by any other line of farm industry. Every dairy district in the country is covered with farms that have been paid for from the products of the cows they feed. That there have been failures, and lots of them, is equally true, as it is of every other human occupation, and this means that every man cannot succeed in this business any more than they can in any other. It also means that the man who will succeed in the dairy must be born right. He must first have a head on his shoulders—that is, at least a little above the average head. He must also have a heart in his body that beats in sympathy with the gentle and motherly nature of the cow. Any coarse or brutal nature will never succeed with her. Such a man may get on very well with field crops and hogs, but when it comes to the cow that has to be handled, and that in a way to secure her confidence, then your rough nature will simply defeat the ends you have in view Another enemy of the dairy is ignor-

ance. If you have a natural dislike of books and newspapers or hate to study out the reason of things, then your occupation does not lie in this direction. To succeed in a way that will be a credit to you it is absolutely necessary that you should understand, at least tolerably well, the principles that underlie dairying and feeding cattle. Dairying has taken such rapid strides to the front in farm scien e of late that it would seem foolish in any man to attempt to surpass his neighbors in it without making himself master of all that has been accomplished in the past fifteen years. This, at least, is the case in butter-making and feeding dairy cattle. We are sorry the same words cannot be used in relation to cheese making. Here, at least, is a fine field for the beginner if he is anxious that no one should know more about the principles of the business than he does .-American Dairyman.

The Best Food for Cows.

Possibly and even probably a June pasture on an old sod is the very best feed for milch cows. If the pasture be rich enough not even grain is needed to increase either the flow or quality of milk. But how small a proportion of cows, and they for how short a time, receive this ideal treatment? It is not creditable to farmers that even for those who have the best June pastures so little effort is given to maintain a large and rich flow of milk through the year. It must be remembered that for at least eleven months in the year June pasture cannot be had. is green, watery and innutritious. After June it gradually grows poorer by drouths until the yield becomes half or less what it was earlier in the season.

There is a remedy for this, and as it relates to the well-being of the cow for eleven months in the year, it may be well regarded as the most important fact connected with dairy farming. Any man who has June pasture does not need advice from agricultural journals about feeding. If he turns the cows out to pasture, milks regularly and cares for it properly, he need not care for anything else. But after June comes the After fall rains begin there is usually a spell of good grass weather before frost

must be resorted to, or the cows and their owners also will suffer.

In winter, of course, reliance must be had on grains, combined with hay, roots and silage, to keep up the milk flow. B it it is a long time after June rastures until winter. If at that time the milk flow is allowed materially to decrease it means a lessened winter product, and probably so much less that a large proportion of the extra winter feeding, whatever its quality, will go to making fat and cow beef rather than milk. It is thus absolutely necessary, even for profitable w nter feeding, that the milk flow be maintained during the previous fall.

June, when the pasture is so good that the slothful farmer thinks he need give it no care or thought, is exactly the time when the wide-awake, energetic farmer is busy preparing for the months that are to follow. July may be brought to something as nearly as possible to the June standard. This is the month for sowing millet and Hungarian grass Corn and sorghum for fodder should be got in the ground in May, but later planting may be made all through June. Until these are large enough to cut it is well for farmers who have pasture to divide it, turning on fields alternately, and thus securing better feed than could be possible if cows were allowed to roam over the entire lot.

Unless the pasture is very rich, even it may be profitably supplemented at its best. On a great deal of long cultivated land both mineral and nitrogenous fertility has decreased, until not only is the quantity but also the quality of its gross product affected. In June only on the very best soil, and those seeded two or more years, is the quality what can be justly termed best. The cow will almost always relish, and if she will eat she will be benefited by a grain ration even during June on a new seeding of any kind of grass or clover. And if she wants better feed, even in June, on pasture, the dairyman acts unwisely if he does not give it.

The present profit from good feeding is by no means the whole of its advantages, great as this is. A cow kept to her best through the whole year increases her m ly-producing capacity. both for herself and her offspring. The original wild cows undoubtedly gave milk only a few weeks after calving. The greater part of the gain from this has undoubtedly been made originally by stimulating individuals up to a higher level, and perpetuating this peculiarity by breeding. In just so far as the dairyman allows his cows to decrease their milk flow he counteracts the benefits of improved breeding. It is thus that even pedigrees are deceptive. and the worst scrubs in the dairy are those made so by bad management, either of themselves or their immediate progenitors.—American Cultivator.

The Busy Bee.

How Beeswax is Made.

It is no mere extraneous substance which needs only to be collected for use; it is a bit of individual organic home manufacture. If you examine the under surface of a cell building worker you will find beneath the abdomen four pairs of white plates projecting from as many pockets in the incasing rings of this part of the body. These are the wax plates, made from the life blood of the worker. Examine now with a lens one of the hinder legs. You will find that the stoutest joints are very square shouldered at the hinge, and that the hinge is well over to one side, so that the shoulders form a pair of jaws, which open when a limb is bent, and close when it is straightened. The upper jaw has a row of spines which bite on a rub. July is hot and August drouthy. plate on the upper jaw. With this apparatus, piercing it with these spines, the worker withdraws a wax plate from withers and injures the pastures. After his pocket, transfers it to the front legs,

laboriously masticated with a salivary secretion. Unless it undergoes this process it lacks the difficulty requisite for cell making.—Ex.

California Excursions.

Are you going to California? If so, read the following, and find out how much it will cost you, and what you can get for your money: The Santa Fe Route runs weekly excursions (every Friday) from Kansas City and points west to San Francisco, Los Angeles, San Diego and other Pacific-Coast points. The ticket rates are the regular second-class rates-\$35-from the Missouri River the principal California points. Pullman Tourist Sleeping-Cars are furnished. These cars run through, without change, from Kansas City to destination. The charge for berths is remarkably low, being \$3 00 for a double berth from Kansas City to California. The Pullman Company furnish mattresses, bedding, curtains and all sleeping-car accessories, including the services of a porter with each car. The parties are personally conducted by experienced excursion managers, who give every attention to passengers, insuring their comfort and convenience. For more complete information regarding these excursions, rates, tickets, sleeping-car accommodations, dates, etc., address

GEO T. NICHOLSON, G. P. & T. A., A., T. & S. F. R. R., 'Topeka, Kansas.

A Summer Vacation.

At this time of year nearly every one begins to think of a summer vacation, er an outing of some kind for a little recreation. For those who desire to visit the summer resorts of the East-Niagara Falls, the White Mountains, Old Point Comfort, and numbers of others, there is no line which offers better facilities or lower rates than the Burlington Route. If the trip is to be by way of Chicago, the Hannibal & St. Joseph's fast vestibule train, Hannibal & St. Joseph's fast vestibile train, "Eli," has no peer; leaving Kansas City in the evening, the traveler takes supper and breakfast on the dining car, arriving in Chicago in time for all connections east. If he nesires to go by the way of St. Louis, he leaves Kansas City after supper and arrives in St. Louis for an early break ast and eastern connections. Both of these trains are luxurious in every respect and equipped with Pullman Palace sleeping cars and free reclining chair cafs.

Palace sleeping cars and free reclining chair cars.

For a short trip there is probably no more delightful summer resort than Spirit Lake, lowa, or one of the other countless lakes in northern Iowa and Minnesots. Here again the traveler finds he cannot do better than take the morning train of the K.C., Nt. J. & C.B. R. R., leaving Kansas City at 11:15 a m and arriving in St. Paul and Minneapolis next morning for breakfast. From these points he can make direct connections for summer resorts in all directions. This train has one of Pullman's finest buffet sleeping cars through between Kansas City and St. Paul. This also is the train to take for Spirit Lake, but one change being made, and that early in the evening into a through sleeper to the Lake, arriving at destination at 7:15 in the morning. The above trains run daily.

Write for all information, tourist circulars, etc., to H. C. Orr, General Southwestern Passenger Agent, 900 Main street, Kansas City, or A. C. DAWES,
General Passenger and Ticket Agent,
St. JOSEPH, Mo.

The splendor of the "American Alps" are beginning to be appreciated by our people, and a visit to Switzerland for gorgeous scenery is unnecessary. The picturesque mountain resorts on the South Park Division of the Union Pacific in Colorado are absolutely unrivalled on this continent.

It is un-American in the higher sense for our people to prate about Europe so glibly when so many of them are profoundly ignorant of the wondrous beauties of their native land. As a matter of fact there are hundreds of thousands of American citizens who are thoroughly familiar with Switzerland; who have idled away weeks at Lucerne, done Chamouni, and attempted the Matterhorn, and yet have never feasted on the lovely beauty, the wild weird majesty of any one of the Colorado Peaks. "More than Alpine glory" rewards visitors along the South Park Division of the Union Pacific in Colorado. There is no scenery like it in the new world.

"The peerless empire of form and color is found in Colorado," says a great artist. So are there many other wonderful effects. There is that grand triumph of engineering skill, the Bow-Knot Loop, famed all over the world; the pretty town of Graymont nestled against the base of Gray's Peak, the giant prince of the range; sunrise on Gray's Peak-a sight once witnessed never to be forgotten; Idaho Springs the beautiful, a restful spot blessed with the healing waters for all who come, within two hours ride of young levithian Danver; the storied gold camp of Georgetown perched in the upper air of the mountains, ever fresh and cool and clear—these are a few of the delightful spots in the "American Alps" reached by the Colorado Central Division of the Union

JULY 10.

This Department of the Kansas Farmer has been designated as the authorized official State organ of the Farmers' Alliance and Co-operative Union for the State of Kansas.

It is also the official department of the District Alliance of Shawnes, Jefferson and Jackson counties.

The Fourth in Butler County. AUGUSTA, KAS., July 5, 1889.

EDITOR KANSAS FARMER: - The "Glorious Fourth" has come and gone for 1889, and Butler County Farmers' Alliance has demonstrated something of what farmers can do at managing celebrations of the anniversary of our national independence, for to say it was a success puts it tame, as it proved a grand success in every respect. Most all the alliances of the county were represented and several came in regular delegations, with flags and banners and songs, wagons handsomely decorated, and ladies neatly and appropriately attired, representing the several States of the Union, and one with little girls so attired, made, while in procession, a most pleasing display; but when all were brought together on the ground and properly arranged by the committee of ladies for the purpose, a scene was presented that will long be remembered by all who beheld it, for it was one that must be seen to be fully appreciated. And notwithstanding the oats crop of the section being struck with rust, and had to be harvested at once, cutting short the attendance by at least onefourth, there were at least 2,000 people present, and a more orderly and quiet people I think were never together on such an occasion, and more than that, it certainly was the most sociable and enjoyable occasion ever held in the county.

There was the least obscenity, vulgarity and profanity ever known on such an occasion in any section I think; and not the least sign of the presence of that which will intoxicate, came under our notice throughout the entire day.

The whole affair was arranged and carried out by the county alliance; and the proceeds all go into the county alliance treasury, to the amount of about \$100, and will be used for just and righteous purposes, and not into the hands of a certain few individuals and used for selfish ends. The oration was delivered by Rev. Stephen Brink, of M. E. church, Douglass, and was pronounced by all we heard speak of it as a splendid address. After dinner the throng were called together by singing our State officers have had to labor.

(and by the way there was some exgirls and boys in the main), and Rev. Churchill, of Baptist church, Augusta, took the stand and showed up some of the conditions of the country, causes, and remedies, in a clear, logical, entertaining and effective speech of about one hour; and Rev. O. W. Jones, of U. B. church, took up the Farmers' Alliance cause, and held the throng in perfect attention for at least an hour longer, and then the people were not satisfied, but called for more. Hon. H. A. Albin was called for, but somehow failed to respond and the people were disappointed. I don't believe, Mr. Editor, that Butler county ever celebrated the day of our national independence with as much of the genuine spirit of good will, patriotism and brotherly kindness as on this occasion.

Among the many beautiful banners bearing motoes were these: "United we Stand, Divided we Fall," "In Union is Strength," with a splendid representation of large sheaf of wheat in gold in center, "Truth is our Auchor." with large gilt anchor in center, "Death to Monopolies," and "God Bless the Right," on another, and "God Bless our Efforts in Liberty, Union and Brotherly Love," on another, and this significant little one, "The Farmer Pays for All." Truly it was a day long to be remembered by all who were

thus bringing together our great strength and power; exercise the same justly and righteously for our own defense against the terrible encroachments of combined capital, and free our homes and loved ones from their bloody hand of oppression, and with our mothers, wives and daughters, lift ourselves and others with us, to higher planes of moral excellence, and intellectual might and social worth, than hitherto known in our beloved country. And how soon can this be accomplished by organizing ourselves for this purpose in some of the forms now in our State, as the two wings of the alliance, and grange, and others, which no doubt will merge into one grand harmonious body very soon; and by the blessing of Him who holds the destiny of nations in his hands we ere long will enjoy in full the fruits of our lands and our labor.

W. H. BIDDLE,

Vice Pres't Kansas State Alliance.

Stafford County Farmers' Alliance.

EDITOR KANSAS FARMER:-On the 19th of April, 1889, we organized the first alliance in this county. We now have sixteen sub-alliances in the county and between three and four hundred members. On the 29th of June we met at Leesburg and organized the county alliance. It was an unfavorable day on account of rain, but we had a good crowd. Brother C. A. Tyler, our State Business Agent, was with us and assisted in organizing. After we were through organizing the brethren were anxious to hear from Brother Tyler, and called on him to make a speech, which was responded to with cheerfulness. After Brother Tyler was through talking he was asked a great many questions, and was ready to give prices on almost everything. Our State officers are working very hard to establish a State exchange. Everybody was satisfied and said they were well paid for coming

But now we look forward to the Fourth, and to a celebration to be enirely under the supervision of the

All other efforts were abandoned and towns and country turned out. Several alliances prepared banners which looked very nice, and shows an interest and determination. The American people have cried liberty and freedom until there is no such thing to the agricultural and all laboring classes. About 2.000 people were present, and a number of speakers addressed the throng and good music was furnished by the St. John band. Among the speakers was our worthy State Secretary, J. B. French. Brother French made a very interesting speech and the brethren All other efforts were abandoned and interesting speech and the brethren were all pleased to meet and hear him. We feel he has done an excellent work for us this year. We must consider the great inconveniences under which all of

been chosen. Some we have not met personally. But are all looking forward to our State meeting which we confidently hope will bring grand results. Wishing you success, one and all, both editor and readers, I close.

L. L. SMITH, Organizer.

Farmers' Alliance Notes.

A. E. Dickinson reports the organization of two alliances in Lyon county last week. S. McLallin, of Meriden, organized an alliance in Atchison county on Saturday evening, the 6th inst.

Saturday, July 13, is the day set for a farmers' meeting to organize an alliance at Louisburg, Miami county. Let the farmers July 4th was duly observed by alliance celebrations in various parts of the State,

and as far as heard from report a good time, and inspiring a fresh impetus to the work of organization. A very pleasing occasion was the public installation of the officers of Mount Pleasant

Alliance last week. The Glee Club, Osawkie's band and Miss Puderbaugh, contributed entertaining music, and an address was made by Capt. L. H. Gest. A meeting of delegates from sub-alliances of Jefferson, Jackson and Shawnee counties was held at Meriden on Saturday, July 6th, for the discussion of questions of general interest. Prominent members of the order were present from various sections of the district. It was decided to hold the next meeting of this district convention at Meriden, on Saturday, July 27.

Wheat is all harvested, and the harvesting of oats is far advanced in Jefferson county. Wheat is a fair crop and the quality good. Oats have been damaged very much in the last four days by bugs and rust, and the crops will fall far short of the estimate of two weeks ago. The yield will be small and the grain light.

present.

Brother farmers of Kansas, let us hasten to get together by organization, \$3,000. Directors; I. H. Shannon, Wn.

Andrew, A. M. Smith, C. P. Peterson, Girard; W. S. White, Mulberry Grove; A. J. Cory, Hadley; L. D. Herlocker, Farlington; Jacob Winterbower, Hepler.

W. W. Hudkins, who attended the alliance celebration at Thompsonville, Jefferson county, reports a grand time. There were two thousand people present. D fferent organizations came in delegations with flying banners and music. Major Wm. Sims and others orated. Barring the disappointment of the Nashville orator the celebration was a happy success. a happy succes

Douglas County Farmers' Institute.

EDITOR KANSAS FARMER:-The Douglas County Farmers' Institute met last Saturday at the residence of Gov. Robinson, four miles northeast of Lawrence. Gov. Robinson made the address of welcome in his happiest mood, closing with a tribute his happlest mood, closing with a tribute to the Haskell Institute band present. Reid Winner, a youth of the Senecas, responded to the Governor's address on the part of the band, of which he is a member. Prof. Snow, of the State University, was present with a bunch of wheat and chess, demonstrating to the farmers that these are entirely different plants, and that no metamesphose takes place as some credulous farmers had heretofore believed. Rev. Gibbons, of Denver, one of the first white men who came to this county, was present, and spoke of the early troublous times, and of the peace and plenty now. Misses Ella and May Bleakly favored the audience with a duet, which was followed by two recitations by Misses Mamie Strong and Lizzle Simmons. Miss Susie Hastle sang a very impressive song. The young boys and girls present were favored with a poetical recitation by Miss Marshland, an elocutionist, of Iowa, who is visiting with Mrs. W. J. Gilmore. Wheat culture will be the programme for the next meeting, followed by a paper from W. L. Tuttle, of Stbley. The next meeting will be at the residence of Barclay Thomas, near Harper, the first Saturday in August. The discussions were participated in by but a few. not many farmers having their knowledge available to speak in public. The farmers' meetings are the means of doing much good, bringing the farmers and their families together, exchanging thoughts, gathering new ideas, and may ere long be the means of bringing them to see that if they ever insist to be more than mere ciphers in politics, they must unite, in order to bring about changes so much needed.

All around us the Farmers' Alliance is gaining strength, new societies springing up everywhere, but in this county nothing has been done. Let us hope that the day may not be far distant when the farmers will unite, arise in their dignity, and become factors in shaping the affairs of this country and nation. I forgot to mention that Mr. Lovels, President of the institute, is the man for the place. I will add that Gov. to the Haskell Institute band present. Reid Winner, a youth of the Senecas, responded

Topeka Weather Report.

For week ending Saturday, July 6, 1889:

Date.		Thermometer.				
				Min.	. Rainfall	
June	80		90.0	62.0		
July	1		88.9	50.0		
	2		82 4	69.6	27	
**	8		80.8	53.8		
44	4		.84.4	61.4		
44	5			56.0		
- 44	6			67.6		

How to Select a Wife.

Good health, good morals, good sense and good temper, are the four essentials for a good wife. These are the indispensables. After them come the minor advantages of good looks, accomplishments, family position, etc. With the first four, married life will be comfortable and happy. Lacking either, it will be in more or less degree a failure. Upon good health depends largely good temper and good looks, and to some extent good sense also, as the best mind must be affected more or less by the weaknesses and whims attendant on frail health. Young man, if your wife is falling into a state of invalidism, first of all things try to restore her health. If she is troubled with debilitating female weaknesses, buy Dr. Pierce's Favorite Prescription. It will oure her. good temper, are the four essentials for a

"Rally Round the Flag, Boys!"

The Grand Army Reunion to be held at Milwaukee (August 26 to 31, inclusive,) will, in waukee (August 26 to 31, inclusive,) will, in many respects, be one of the most notewerthy of commemorative events. There will be no lack of distinguished speakers. But the most attractive features will be the "tie that binds" men who have fought, starved and bled for a sacred cause, the renewal of old-time associations, the rehearsal of war experiences, and the rekindling upon the altar of patriotism of undying devotion to "one flag and one country." Veterans and their friends will be pleased to know that from all stations on the Chicago, Rock Island & l'actific Railway, on its main lines and branches both east and west of the Missouri river, the price of tickets has been placed for this occasion at one fare for the round trip, while children under 12 and over 5 years of age will be charged only ene-half this excursion rate, or one-quarter the regular fare for the round trip. Tickets will be for sale at all principal stations on the Rock Island Route, August 21 to August 28, 1889, inclusive, good for continuous passage to Milwaukee at any time between these dates, and good for return passage, leaving Milwaukee on any date between August 27 and September 5, 1889, inclusive. Holders of such tickets who desire to make side excursions from Milwaukee to points beyond, in any direction, can, by surrendering their return coupon tickets for safe keeping to the Joint Agent at Milwaukee, have them honored to original starting point where ticket was purchased (by proper indorsement), on any date not later than September 30, 1889. many respects, be one of the most notewerthy

Gossip About Stock.

J. C. Dwelle, Cedar Point, Kas., writes that 500 sheep advertised only three weeks has resulted in a purchaser at Emporia. If you wish to do business, advertise.

Our advertiser, M. H. Alberty, Cherokee, Kas., writes: "I have a fine lot of pigs and a number of orders booked. Have disposed of all my buils old enough for service."

Readers will not forget the important auction sale advertised this week by Wm. J. Miller, Beileville, Ill., consisting of 25 Percheron horses and 35 Criuckshank Short-born extle.

Wm. Plummer, proprietor of Maple Grove Herd of Poland-Chinas, Osage City, in remitting for his adv., states that his stock is doing finely, and trade is good and "am receiving a great many inquiries for stock through the Kansas Farmer."

Rome Stock Farm, Rome, Sumner county, presided over by that genial and successful swine breeder, T. A. Hubbard, writes that his swine are doing nicely and trade good; sold nine head one week, averaging \$30 50 each. The FARMER does me good. Mr. H. desires to say to his friends that he is located on his farm at Rome, but with sufficient notice will meet friends at Wellington, or the train will land you at his farm.

We are in receipt of a full report of the

we are in receipt of a full report of the proceedings of the swine breeders of Clay county, Neb., but owing to our crop reports, it is crowded out. Officers elected, W. J. Cox, President, Clay Center, Neb.; C. H. Searle, Vice President, Edgar, Neb.; W. E. Spicer, Treasurer, Harvard, Neb.; and S. McKelvie, Secretary, Fairfield, Neb. The next meeting will be held at Clay Center, Neb., on the second Saturday in August.

Levi Chubbuck, Secretary of Missouri State Board of Agriculture, reports the number of young stock very low. The pig crop will be small, and fewer neat cattle are being raised, and more interest is felt in horses than any other class of stock, and less in sheep. Disease of stock is somewhat prevalent, cases of glanders reported in thirty-six counties, hog cholera in sixty-nine counties, and black-leg in thirty-seven counties. Of course it is not to be understood that it is general in those counties but cases were reported to the State Veterinarian.

The Naw Erz Exposition St. Loseph Mo.

cases were reported to the State Veterinarian. The New Era Exposition, St. Joseph, Mo., Informs us that by mistake some omission has been made in the premium list which they desire stock men to note. On page 17 breeding cattle: Best Red Polled herd, \$50; page 18, second premium offered on lot 124% of \$50; on page 24 lot 11½ sweepstakes rings by ages any breed, bred and fed by exhibitor. Only those animals will be eligible, that have taken first and second premiums. Further: lot 250¼, Best steer 2 and under 3 years old, \$75; lot 250½, best steer 1 and under 2, \$75; 250¾, best steer under 1 year, \$75. Write for a premium list of this exposition and note the above corrections.

of this exposition and note the above corrections.

The remarkable success of the Brilliant family of Percheron horses at the great annual show recently held at La Ferte Bernard, France, may be justly characterized as a triumph rarely, if ever, equaled in the annals of show-rings in Europe or America. A record of twenty-nine awards out of a total of forty-eight, in the stailion rings, and twenty-four awards of forty-two in the class for mares and filles gained by direct descendants of the grand old horse is something which affords an unerring indication of the value of this now famous blood; and demonstrates indeed the soundness of the judgment which induced Mr. M. W. Dunham to give it so prominent a place in his world-renowned Oaklawn stud at Wayne., Ill. No less than 100 sons and daughters of Brilliant are now to be seen at this great breeding establishment, and the news of this astonishing victory from beyond the sea will add value to every horse in America, carrying his blood. The scientific breeding of Percherons has made rapid strides since the establishment of the stud book of France, and now that the records, blood lines, prize-winnings, etc., of the breed are accessible to all the production of fine horses is teing brought to a point where it is attended with little uncertainty if the signs of the times be but half observed. Mr. Dunham is to be congratulated on the possession of such a phenomenal progenitor of prize stock.—

Bugar Machinery Award

Sugar Machinery Award.

Prosperity seems to be the natural result of liberally patronizing the Kansas Farmers, either as a constant subscriber or an advertiser. We are in receipt of a late copy of the Red Wing Daily Republican, sent us by our advertisers, Messrs. Densmore Bros., Red Wing, Minn. The paper contains the following:

the following:
"Densmore Bros., of the Red Wing Iron Works, have just been awarded the contract for furnishing the American Sugar Works at Mead, Kansas, with a full outfit of the John F. Porter line and method of concentrating sorghum julce and extracting therefrom sirup and sugar The main features of the outfit comprise two No. 6 John F. Porter steam evaporaters, two J. F. Porter steam defecators, one receiving and one supply tank. Besides these there are steam pumps and water pipes, a hot water supply tank with steam coil and numberless minor matters which go to make up a complete outfit. All steam coil and numberless minor matters which go to make up a complete outfit. All conducting pipes for juice and syrup, and all the tanks defecators, evaporators and coolers will be finished in copper. The capacity of the outfit is understood to lo from 1,000 to 1,500 pounds of heavy granulating syrup an hour. It is to be shipped early ing syrup an hour. It is to be shipped early in July and the Messrs Densmore Bres. will give it their personal supervision until set up and in full operation. The growing favor with which the John F. Porter evaporater is accepted is not only an index of its valuable merits but shows the result of a resolute purpose on the part of Densmore Bros. to turn out work which shall be a credit to themselves and 'value received' to the purchaser,"

THE NEW ERA EXPOSITION.

St. Joseph to Have a Grand Exposition in September.

The Largest Premiums Ever Offered for Farm and Other Products--Extracts From the Premium List.

A representative of the Kansas Farmer was in St. Joseph last week, and while there called in at the Exposition headquarters. A dozen men were at work sending out maps, lithographs, etc., and several clerks were making entries and arranging for the grandest exposition of modern times. Hundreds of men were at work on the beautiful grounds east of the city, and down town the ladies were busily engaged in making decorations for the various buildings. President Perky was interviewed in regard to this great Exposition, and the following is a synopsis of his description of what the people of St. Joseph will have to offer to the public next September:

The National Railway, Electric and Industrial Exposition will open at St. Joseph, Mo., September 3, and continue until October 5. This Exposition will be national in character. In order to have proper representation, each county should have a separate organization, with a secretary to arrange for general exhibits.

The following are extracts from the rules and regulations and premium list, and general information:

The main building for machinery and other exhibits has a floor space of 80x1,040 feet, or 83,200 square feet, the largest building in the West. The grounds comprise forty-five acres, carpeted with blue grass, and covered with beautiful elm, ash and oak trees. There will be forty acres of pavillions, pagodas, arbors, pyramids, granaries, colonades, arcades, grottoes, canopies, etc. trimmed and decorated with, and for cereal and other agricultural exhibits. There will be lakes, fountains, waterfalls turning the "old mill," rustic bridges, etc. There will be exhibited railway rolling stock and railway appliances; electric light, power and other electrical devices and all kinds of machinery, implements, tools, etc.
Rule 1 reads as follows: "The buildings

and grounds-will be open for the reception of articles from and after Monday, August The Exposition will be open to the public on Tuesday, September 3, 1889, and will continue open from day to day thereafter until and including Saturday, October 5, 1889, from 9 a. m. to 6 p. m. On Sundays appropriate services will be held, and sermons delivered in the amphitheatre by the most celebrated divines of the country. Music by a chorus of 1,000 voices. The amphitheatre will seat 10,000. Machinery will be closed down on Sundays. The Exposition will be held open nights on special occasions, as may be determined by the Board of Directors."

St. Joseph is in the center of the Territory comprising the four great States of Kansas. Nebraska, Iowa and Missouri—the richest country in natural resources on the face of earth.

Distinguished agriculturists, legislators, journalists, and eminent public speakers of national reputation will visit the Exposition and address the people in the amphitheater.

Corn.

INDIVIDUAL EXHIBIT-BEST CORN.

To compete for the premiums offered for the best dozen ears of corn, the dozen ears must be substantially plaited together with undetached shuck, in one bunch and skillfully arranged. For the purpose of conveniently hanging the corn in place for exhibit, an iron ring should be securely fastened at the upper end of the bunch.

PREMIUMS.

Best dozen ears of corn, plaited together in one bunch with the shuck, \$500.
Second best dozen ears of corn, plaited together in one bunch with the shuck, \$250.
Third best dozen ears of corn, plaited together in one bunch with the shuck, \$125.
Fourth best dozen ears of corn, plaited together in one bunch with the shuck, \$250.
Fifth best dozen ears of corn, plaited together in one bunch with the shuck, \$250. Fifth best dozen ears of corn, plaited together in one bunch with the shuck, \$31.25.
Sixth best dozen ears of corn, plaited together in one bunch with the shuck, \$15.
Seventh best dozen ears of corn, plaited together in one bunch with the shuck, \$5.

CORN-GREATEST VARIETY.

Any individual may compete for premiums under this head, and the exhibitor is not restricted to his own product, but is free to collect it from any country in the world. The quality of the varieties must be good.

While the judges will be governed by variety, both quality and attractive arrangement will doubtless have an influence, and exhibitors are cautioned to make their displays as attractive as possible.

PREMIUMS.

For the greatest variety of corn (six ears during the last week of Exposition, and in

each). First premium, \$50; second, \$25; third, \$10.

General Agricultural Display. This exhibit may be made by any county

or individual organization within a county. The exhibit must embrace all the products of the soil in the locality from which the exhibit is made, and must be made in a pavillion or structure erected at the expense of the exhibitor, on such plan as is acceptable to the architect of this association. It may be made in a properly constructed tent.

PREMIUMS

For the best agricultural display by county or by organization of individuals within a county, \$1,000; second, \$500; third, \$250. Cereal and Stalk-Trimmed Ornaments,

Figures, Statuary, Etc. None but farmers' wives and daughters

can compete for premiums in this lot. The ornaments, etc., must be artistic in design and not less than twenty-four inches in width and heighth; they may be of any size larger.

PREMIUMS.

First, \$25; second, \$15; third, \$10; fourth, \$5. Sweepstakes (not confined to farmers' wives and daughters, but open to the world), \$50.

Shocks of Grain.

Best miniature shock of winter wheat—
First, \$25; second, \$15; third, \$10.
Best miniature shock of spring wheat—
First, \$25; second, \$15; third, \$10.
Best miniature shock of oats—First, \$25; second, \$15; third, \$10.
Best miniature shock of barley—First, \$25; second, \$15; third, \$10.
Best miniature shock of rye—First, \$25; second, \$15; third, \$10.
Best miniature shock of cereals, to consist of fourteen sheaves of variety of grain—First, \$25; second, \$15; third, \$10.
The shock to consist of fourteen sheaves

The shock to consist of fourteen sheaves, uniformly two and a half feet high and proportionately small in thickness. No sheaf hood will be required. The shock will set on a beard platform or ground and be covered by a canvas top, secured to a centerpole. The sheaves will be set around and fastened to the center-pole. The pole, canvas top and platform will be furnished by

the association. Tobacco.

Best display of leaf tobacco by producer-First, \$25; second, \$15; third, \$5. Best tobacco ornament by any person, \$25. Dairy Department.

Best jar of butter (10 lbs.) by farmers' wife or daughter—First, \$25; second, \$15; third, \$5. Best three tubs oreamery butter—First, \$25; second, \$15; third, \$5.

Special provision will be made to keep butter during the entire Exposition, and the exhibit must be in place on the first day and cannot be removed until after the Exposi-

FACTORY CHEESE.

Best two boxes cheddars or flats, full cream -First, \$25; second, \$15; third, \$5. Best two boxes Young America, full cream -First, \$25; second, \$15; third, \$5.

PRIVATE DAIRY CHEESE.

Best two boxes cheddars or flats, full cream—First, \$25; secend, \$15; third, \$5.
Best two boxes Yeung America, full cream—First, \$25; second, \$15; third, \$5. SWEEPSTAKES.

Largest and best display of cheese, not less than ten boxes, \$30. Bees, Honey and Apicultural Implements.

[Extracts from rules.] Exhibitors will not be allowed to remove honey from their exhibit during the Exposition, but may sell from a reserved supply,

for which no charge will be made. Colonies of bees must be exhibited so as

to be readily seen. All exhibits must be in place on opening day of Exposition. The exhibit must be

creditable.

Display of comb honey, largest and most attractive—First, \$50; second, \$25.

Display of extracted honey, largest and most attractive—First, \$50; second, \$25.

Display of bees and queens, largest and most attractive—First, \$50; second, \$25.

Largest and most complete line of apicultural implements exhibited by manufacturer, quality of workmanship to be considered—First, \$50; second, \$25.

Fruit.

Fruit. | Extracts from rules.]

All fruit shall be exhibited open and on plates, except that in general displays.

Pyramids clusters and other call displays.

Rest bull 2 recent that in general displays. Pyramids, clusters and other artistic designs will be permitted and counted in such displays.

All fruit must be in place on opening day of Exposition, but exhibitors will have the privilege of replacing decayed fruit with sound, and keeping up their display during the Exposition.

Fruit in glass jars will not be admitted. No fruit shall compete for more than one premium.

Five specimens shall constitute a plate, except where very large, when four shall count for a full plate.

In grapes, plums and crabapples, a plate shall be well rounded up without regard to

The name of exhibitor will not be permitted on his display until after the premiums are awarded.

The committee on fruit will do their work

making their awards will observe size, quality, color, sound condition, perfection, correct naming and general appearance of display.

· PREMIUMS.

For the largest and best display of fruit by any State, county, local society or individual-First, \$500; second, \$250; third, \$125.

Large premiums will be offered for the largest and best display of the various fruits, as well as for best plates of the same Exhibition and Sale of Horses.

Like manufacturers, owners, breeders and dealers in horses are becoming dissatisfied with competitive exhibits at fairs and expositions.

No horseman, for many times the amount of a premium, would see the red ribbon tied on his horse and the blue on the horse of his competitor.

The preference is, that, instead of an awarding committee of two or three men, the public in attendance shall be the judges, after seeing the horses from day to day on the ground and in the show ring.

The New Era Exposition has therefore concluded to offer no premiums for horses, but will provide commodious stalls free for the accommodation of horsemen who desire to show their horses to the hundreds of thousands who will attend the Expesition. These stables will be at the disposal of owners of horses (subject to such rules as may be made for the better accommodation and protection of all concerned) from and after Saturday, September 1, to and including September 25.

Horses will not be required to be exhibited at the Exposition longer than one week, but may remain until September 25, if, in the opinion of the Superintendent, they have merit enough to be a benefit to the Exposi-

Horses may be received as late as September 17, and no later, except by the permission of the Superintendent of this department.

No person will be allowed to have more than ten horses on the grounds at any one time, except by the permission of the Superintendent.

Any horse exhibited at this Exposition may be offered for sate in private, or at public auction, 3 per cent. of sales to go to the association.

Sale days at public auction will be as follows: September 5, 7, 10, 13, 20 and 23,

Ponies of good breed and style may be exhibited and sold on same terms as horses.

Application for stalls should be made at once, stating the number of horses, whether stallions, geldings, mares, colts, ponies, breed, etc., and when the stall will be required. First applications will secure first assignment of stalls, and thereafter in the order of receipt of applications.

Breeding Cattle.

The exhibition of breeding cattle will commence on Monday, September 30, 1889, and continue six days. No charge for entries or stalls for stock on exhibition.

Entries in any class can be made at any time before the Expesition, by application to the Secretary, either personally or by letter, and at the Secretary's office on the ground up to 9 o'clock a. m. on Menday, September 30, except in case of stock to be exhibited on Monday, which must be entered before 9 a. m. of that day. Entries for each day thereafter must be made before 9 a. m.

FREIGHT RATES.

Exhibits of stock for the St. Joseph Exposition will be carried by all railroads centering in St. Joseph at full tariff rates to St. Joseph and returned free (see rules).

PREMIUMS.

The following premiums are offered for Short-horns, both bulls and cows, and are duplicated for Herefords, Angus, Galloll, 3 years old or over—First, \$25:

Best bull, 2 years old or over—First, \$25; second, \$15. Best bull, 2 years old and under 3—First, \$25; second, \$15. Best bull, 1 year old and under 2—First, \$20;

second, \$10.

Best buil, under 1 year—First, \$15; second. GRAND SWEEPSTAKES.

Best herd of any breed, \$200. Breeding Swine.

The following premiums are offered for Berkshires, Poland-Chinas, Duroc or Jersey Reds and Yorkshires:

Best boar, 2 years old-First, \$15; second.

Best boar, 1 year old and under 2—First, \$15; second, \$7.50. Best boar, ever 6 months old and under 1 year—First, \$10; second, \$5.

Best boar, 6 months old and under 1 year—First, \$70; second, \$5.

Best sow, 2 years old-First, \$15; second,

Best s.w. 1 year old and under 2—First, \$15; second, \$5.50. Best sow, over 6 months old and under 1 year -First, \$10; second, \$5. Best sow, 6 months old and under—First, \$10; second, \$5.

SWEEPSTAKES HERD.

Best boar and four sows, bred and owned by exhibitor, any breed or age. Boar may or may not be bred by the exhibitor, \$50.

Best herd of ten head of any one breed, \$60.

Best sow and litter of five pigs, under 1 year, \$50.

Breeding Sheep. The following premiums are offered for pure bred Merinos, Cotswolds, Leicesters, Lincolns, Scotch Cheviots, Shropshires, Oxforddowns, Southdowns and Hampshires:

Best ram, 2 years old and over—First, \$10; econd, \$6. Best ram, 1 year old and under 2—First, 10; econd, \$6.

Best ram lamb—First, \$7; second, \$3.
Best ewe, 2 years old and over—First, \$10;
Best ewe, 1 year old and under 2—First, \$10;
second, \$6.

GENERAL RULES AND REGULATIONS OF THE ST. JOSEPH FAT STOCK SHOW. [See special rules governing each class.]

The grounds will be open for the reception of stock on Thursday, September 26, 1889, and until Saturday night, September 28, 1889. ENTRIES

must be made on or before September 28, by application to the Secretary, who will furnish blank application on which to specify exhibitor's name and address, with age and description of the animal offered. This rule will be imperatively enforced.

PREMIUMS.

The following premiums are offered in all thoroughbred classes:

Best steer, 2 and under 3 years—First, \$50; second, \$30.
Best steer, 1 and under 2 years—First, \$50; second, \$30.
Best steer, under 1 year—First, \$50; second.

Best steer, under 1 year-First, \$50; second, \$30. GRAND SWEEPSTAKES.

Best steer in the show of any age or breed,

8100. Best thoroughbred herd, any breed, composed of three steers, one 2 and under 3 years, one 1 and under 3 years, and one under 1 year,

Best grade herd, same as above, \$100.

WEEPSTAKES HERD IN SHOW, ANY BREED. Best herd of steers, composed of three animals, one 2 and under 3 years, one 1 and under 2 years, and one under 1 year, \$150.

Fat Hogs. The following premiums are offered for Berkshires, Poland Chinas and other pure breeds, white:

Best barrow or spayed sow, 12 to 24 months—First, \$25; second, \$15.
Best barrow or spayed sow, 6 to 12 months—First, \$25; second, \$15.

SWEEPSTAKES RINGS.

Best barrow, any age, open to all, \$50. Best lot of five barrows or spayed sows, bred and fed in any State, \$100. Fat Sheep.

The following premiums are offered for long wools, middle wools and fine wools:

Best wether, over 9 months—First, \$25; second, \$15. Best wether, under 9 months—First, \$25; second, \$15.

SWEEPSTAKES RING. Best wether, any age, \$50.

LARGE PREMIUMS will be offered for poultry of all breeds and

classes. For complete premium list, rules and regulations, railroad rates, and general infor-

mation about the Exposition, address NEW ERA EXPOSITION. ST. JOSEPH, MO.

The Anglo-Kansan Investment Company.

We present our readers this week the advertisement of this worthy enterprise. Personal acquaintance with the gentlemen composing the company enables us to commend them and the plans they have matured for the sale

the company enables us to commend them and the plans they have matured for the sale of Kansas real estate with great confidence. The ebject of the company is to bring together those who have lands for sale in Kansas and the land-buyers and home-seekers of the British Islands. They desire to reach the land-owners of Kansas directly, believing they will be able to furnish customers at better prices and in shorter time than any company doing business in the State.

They are all men of experience and well qualified by their knowledge of the State to place real estate before the European customer to the best advantage, a part of the plan being to maintain offices in the principal cities of England, Scotland and Ireland, which will be under the management of Mr. H. A.W. Cerfield, whose wide acquaintance in those countries will be invaluable, not only to the company, but to the whole State of Kansas as well. He has already established offices in London and Liverpool and sailed this week for kngland to take charge. The President of the company is Hon. W. J. Price, State Commissioner of Immigration. He has been for many years a resident of the State, and is widely known as a business man, having been identified from his coming to the State with many enterprises that have added wealth and prestige to it. Mr. M. B. Bennett is the Vice President. His age, experience and knowledge fit him for this position admirably. Mr. C. ft. Smith, the Secretary and Treasurer, is a shining light among the young business men of the city, careful, diligent, courteous and well-informed—just the man for the office work.

work.
It ought to be unnecessary for us to ask the owners of Kansas lands to communicate with this company—"A word to the wise is sufficient." Place your lands in the hands of a company whose hope and belief is that they can bring customers with cash who will buy your lands at living prices.

READ THIS!

Send \$1.00 for recipes for making maple sirup and artificial hency. It cannot be told from the genuine. Or 50 cents for either one. Send by posteffice money order or registered letter.

Address N. J. WATERBURY & CO.,
628 Kansas Ave., Topeka.

..... Uncinnati. Unio.

The Bome Circle.

To Correspondents.

The matter for the Home Circle is selected Wednesday of the week before the paper is printed. Manuscript received after that, almost invariably goes over to the next week, unless it is very short and very good. Correspondents will govern themselves accordingly.

"If I Could See Him Again."

If I could see him again,
If I could hear him say,
Merry and kind as he used to do,
"Well, little wife, what has come to you
All through the busy day,
While I have been away?"

Often then I was cross;
Often I used to reply,
"What comes to a woman everywhere?
Washing, and baking, and household care;
I declare it makes me cry
To think how my days go by!"

Then he would kiss me again,
Try to be still more kind;
Tenderly say, "My poor little wife!
Would I could give you an easier life!"
How could I be so unkind?
Oh, how could I be so blind?

God took him away one day, Took him away from me;
Now, though I labor the whole day through,
Nobody asks, "What has come to you?"
Nobody pities or shares
The weight of my household cares.

Oh, yes, I have children, too;
A mother cannot complain;
But never a son or a daughter's grace
Can fill the void of their father's place. A mother cannot complain; But, oh, for my husband again!

If I had only known
That I should ever find
It was an angel love that for years
Worked for me, cared for me, dried my tears,
I had been far more kind;
But, oh, I was blind! So blind! -Lillie E. Barr, in Ledger.

SORROWS.

To one who gazes on the ocean for the first time, lying placid and white in the sun's rays, its surface sparkling like myriads of diamonds, just the least possible ripple, se far as the eye can reach sky and water meeting, the broad expanse, heavenly blue, bending to the immensity of water, there are no words to express the wonderment. the vastness, the sublimity of it. And the wish rises that life might always be like the scene before us-placid, even, perfect. But as we think it over, how cruel the ocean is! Ships, freighted with human souls, start from her harbors, flags are flying, music fills the air; hearts beat with pride; good wishes are showered upon them, farewells are said, friends part to meet soon, and the vesse sails away over the waters. Perhaps not many days from shore fearful storms arise; high winds send the boat now on a huge breaker, now completely out of sight as a wave breaks over her. Of no avail are prayers, life-boat or preservers. Every passenger sinks under the waves-"a hundred fathoms deep." No need of requiem; no shroud or winding sheet. And on the morrow the beautiful, cruel waters smile at the skies and sparkle in the sunbeams, with no trace of yesterday's storm. Old ocean holds her secrets, fast bidden in her caves, lying in her valleys, buried among her wealth, over which living animals roam, never to be known until the sea gives up her dead and all things shall be known.

We look on some faces, they are bright with smiles; the voice utters pleasant words; the life is an active one, a useful one. It may be one who labors in the Master's fields, lifting up earth's fallen ones, speaking words of cheer or comfort to discouraged souls. It may be a home and loved ones claim the time and attention. I hardly think it matters in the Father's eye where we labor or what we do, if we but do as well as we can. If we want a field of labor we can We look on this life and on that life, and wish that our lives could be as fair and pleasant as those before us. Have you ever stood by a rose bush and admired the beauty of roses and inhaled their fragrance? Every bud and blossom seemed perfect in form and coloring. But open one of the largest, most beautiful roses, part the leaves, and down deep in its center you may find an ugly worm eating into it, destroying it surely, slowly. We cannot judge of a person's inner life; we cannot look upon the heart. The smiling face may typify a happy heart, a careless easy life, a heart that knows no sorrow or ache; or it may be a mask that covers an aimless life and blighted hopes. The gay laugh and merry sally serve to drown the pain that is ever gnawing at the heart. The eyes may see, beyond our vision, a ghost at at every feast.

Sorrowal oh, they rankle in every breast they sit in every house; they wait like sentinels at our doors; they come to us unbidden. I have heard that not even the faintest helps on recovery like a mind at rest. last season 2,100 pairs of prairie chickens,

whisper of sound was ever lost; that somewhere upon the eternal shores the acoustic waves are ever breaking, never to sink into silence while nature's laws endure. If this be so, what a record we are making! The sighs, the moans, the words that fall from our lips, are gone beyond recall.

We do not afways know who needs our advice. Those whom we may consider "fallen ones" may be nearer heaven than we are. A noted divine says that to many a body who is carried to a potter's field in a pine box the chariots of Christ will come down. In laboring for the so-called "fallen ones" I should not advise the squandering of pen, ink, paper and time. There was never a wanderer reclaimed by simply reading of the prodigal son. When Jesus walked among men he did not heal them by touching them with a ten-foot pole; He laid his hands on them. We can never reclaim one who has gone astray by talking about them at sewing societies, or by writing to them how they ought to do, and holding our skirts aside when they are passing. We want to labor for love-a love that prompts us to take the dirty, grimy hand in ours, to bind up the wounds and sores, to hold the cool drink to parched and thirsty lips. Love, such as One better or purer than you or I, gives freely to a sin-burdened humanity. Love like this is as rare as birds in mid winter. In getting near to those who need help, who are grasping blindly after some good, I often think we are nearer, the heavenly Father; for isn't it a natural suppotion that He is near those who need Him? We are told that for every thorn there is a garland of roses, for every dark day there is a season of sunshine; and for every groan It is there is a thousand hymns of praise. a pleasing assurance, I am sure, and brings comfort even if it is never fully realized. -Evangeline, in Michigan Farmer.

The Care of the Eick.

To change the under sheet, roll it lengthwise; that is, begin at the side. Push soiled sheet and all coverings toward the patient, leaving the mattress bare. On this lay the clean roll, tucking one side under the mattress, unroll it toward the patient and move him over the roll on the smooth space, keeping him covered with the top blanket. Go to the other side of the bed, pull out under blanket and soiled sheet, finish unrolling clean sheet and tuck it in. Lay the clean upper sheet over the top blanket, and cover it with another blanket and thin white spread. When these are in place, remove the blankets that are next to the patient, and he will be left lying between clean sheets in a clean nightdress and thoroughly bathed, without having been exposed for an instant to the chance of taking cold.

Open the window at the top, and if there seems too much air near the bed, place a screen between that and the window. If none is at hand, improvise one by throwing a shawl over a clothes-horse, or fastening a cord between two convenient points and hanging a blanket over it. If the window will open only at the bottom, tack the flannel there. The pillow cases should be changed frequently, and the pillow turned as often as can be done without disturbing the patient. A cool, fresh surface next the face is very refreshing. Keep the pillow well under the shoulders; nothing is more trying to a weak person than to have the edge come just in the hollow of the neck, throwing the chin forward on the breast.

Gently comb and wash the hair, and if there is a beard keep it washed and free from tangles. If the patient is a woman, part the back hair, and braid each portion. It can be coiled high on the head or allowed to hang in two tails. The nails on both hands and feet should be carefully attended

If the carpet cannot be removed, sweep it daily with a carpet sweeper, or a broom with a cloth wound round it, and burn the dust. Wipe the woodwork and furniture daily with a damp cloth. Never leave milk standing in a sick room; it quickly absorbs impurities. If obliged to wait for a few moments until the invilid is ready to take it, cover the glass containing it. Make it a rule to leave nothing in the sick room that is not positively needed there. Remove every cup, glass and spoon as soon as used, and wash all bottles as soon as they are empty. Keep the little table beside the bed covered with a white cloth, and see that it is always

Be as cheerful as possible, and try to leave worries on the other side of the door. Even when one is very tired and at xious, a resolute effort of the will enables one to do much to overcome the tendency to show it. A calm nurse calms her patient, and nothing

Remember while there is life there is hope, and never give way to despair while life remains. Many a person who has been given up to die has recovered to many years of usefulness. Keep up the nourishment as long as it can be swallowed; it may be just the stimulation that is needed to turn the scale from death to life.—Home Magazine.

Glass Houses and Other Possibilities.

The future of the glass industry in the United States is encouraging; for it is only since the war that the manufacture of pol ished plate has grown up; and there are now running or building, enough furnaces to supply all that will be used in the country. It is within the last ten years that the manufacture of cathedral and rough plate has been thoroughly established, at first disputing and now controlling the home market against England and Belgium. The improvement on window glass has also been great, and there are workmen and manufacturers who think they see the rising sun of much better days and a much better American glass. The concentration of capital in powerful concerns must certainly lead to changes in the system of labor that are bound to insure a mere finished product. A new glass recently invented in Germany is said to add marvelously to the power of the microscope. A Yale professor announces the invention of a perfect acromatic telescope

Legend tells of the lest invention of "malleable glass." Tiberius is said to have discouraged a genius who found the secret by baheading him, fearing the innovation would reduce the value of gold. It is also recorded that Cardinal Richelieu was presented with a bust of malleable glass by a chemist, who purposely let it fall into fragments, and mended it before his eyes with a hammer. The inventor was promptly rewarded by perpetual imprisonment, lest his ingenuity should ruin the "vested interest" of French manufacturers. But if glass may not ape the metals in malleability, it may imitate them in another respect just as important. A more fortunate Frenchman (M. de la Bastie) has within a few years introduced into Europe a transmuted glass which, he claims, may displace cast-iron. If it fills his expectations it may mark a new era in glass, and the old adage "as brittle as glass" will be superseded by a new one "as tough as glass." By his process railway sleepers, fence posts, drain pipes, tanks, etc., are cast in moulds, and so toughened by a bath in oils as to be stronger than iron, though much lighter, and costing one-third as much. But it is questioned whother his results reach what is claimed for the process. These undeveloped toughening processes augur astounding changes in the future of glass. "Glass houses" may become the fashion, and we would have to reverse our proverb about them, for they would be bomb-proof. Already transparent glass bricks are made. Extending the possibitities of glass a little further, why may we not build the entire structure of glass? The walls might be cemented blocks cast like hewn stone, but translucent, and of any color. One could thus inhabit a huge pile of amber or of gigantic gems. The windows could be multiform, some of them telescopic, bringing distant things near, some with lenses or mirrors gulding the focussed sun's heat for culinary and comfortable purposes, others straining out the light or chemic rays. Tapestries, furniture and utensils might be made of the universal material. The whole would be more endurable than granite. No fire could harm it; lightning would shun it. Such a dream, blossoming from this miraculeus substance, may be realized by an Aladdin whose lamp is of glass.—Harper's Magazine for July.

Gold Storage.

The business of freezing meats and fish and preserving perishable products by various systems of freezing and cold storage has come to be an important feature of New York has now eight commerce. large establishments devoted to it, with an aggregate capacity of 15,000 tons, besides many private "plants" belonging to separate produce houses. Some of them use the old process of ice and salt, while others use the ammonia process. By the former a temperature of five deg. can be reached, and with ammonia it is said the mercury can be sent down to 20 deg. below zero.

The freezing material is sent through pipes which line the large rooms in the refrigerator store houses and become encrusted with ice, keeping the atmosphere crisp, dry and as cool as may be desired. Poultry is the chief commodity thus preserved, and it is often kept frozen fifteen months. One firm stored

15,000 pairs of grass plover, 600 pairs of canvasback ducks and 1,300 dozen English snipe. The system saves great loss and enables the dealer to make special profits en meats and fruits out of season. Fruits and nuts are kept in a more moderate temperature, just above freezing. Great quantities of beef and other meats, eggs, vegetables, etc., are kept in these houses, and if proper care is exercised it is claimed that the flavor is improved by long free zing .- Good Housekeeping

Fashion Notes.

Epaulettes corresponding in color to the waistcoat and sash are worn with many summer tollets.

Epaulettes made of ribbon, carried around the armhole and tied in a stylish bow at the top, are in favor with both day and evening toilets.

Among the many odd conceits in belt buckles we note wishbones of polished silver. A favorite design is a number of filagree daisies linked together.

An odd hairpin is of mother of-pearl, topped with a crook of chased gold, in the center of which is a spider's web of fine gold wire, with a ruby and sapphire fly held captive in its meshes.

The fashionable corsage just now is something between a round waist and a basque, extending slightly below the waistline, and slightly pointed or broadly rounded front and back.

Many ladies now have the remnants of discarded silk dresses made up into petticeats to wear under street costumes. They are light and cool, and a dark one looks well underneath all sorts of dark skirts.

The full waistcoats and sashes worn with many of the summer gowns are made of a single piece of wide ribbon, which is fastened at the throat, then carried downward and adjusted by pins to suit the figure and style of the bodice.

Shirt waists are in high favor. The newest are of cotton, gotten up and laundried similar to those worn by gentlemen, but the more feminine looking ones, of silk, nun's veiling and various fancy materials, are more generally popular.

The corsage without darts is being very generally adopted for thin fabrics. Sometimes there are but two seams visible, one under each arm, but oftener there is a side form at the back, and some figures require an additional one under each arm extending far toward the front.

An effective arrangement of ribbon upon a cotton gown is to fasten a strip under ea h armhole, carry them across the front or back, crossing them, then draw tightly to the waist in front, and tie in long loops and ends. In a few cases this is done both back and front, but the effect is not as pleasing.

Peasant Proprietors in Russia.

The peasant proprietors can neither pay the money owing to the government for their land nor even the state and communal taxes, and are flogged by hundreds for non-payment. In one district of Novgorod 1,500 peasants were thus condemned in 1887; 550 had already been flagged, when the inspector interceded for the remainder. Widespread famine is found over a great part of the country; usurers, the bane of peasant proprietors in all countries, are in possession of the situation; the Koulaks and Jew "Mireaters" supply money on mortgage, then foreclose, and when the land is in their possession get the work done for nothing as interest. These bondage laborers, as they are called, are in fact slaves, and are nearly starved, while the small pieces of land are often reunited into considerable estates, and their new owners consider they have only rights and no duties. Meantime, as forced labor is at an end, and free labor is of the worst possible kind, the old land-owners can get nothing done; they have tried to employ machines, bought by borrowing from the banks, and are now unable to repay the money. The upper class has been ruined, with no advantage to the peasant.-Nineteenth Century.

A novel method of removing grease from cloth, woolen or silk goods, and especially applicable to goods of a delicate texture where the color is easily injured, is the use of potato water. Grate the potatoes to a pulp and add water to the amount of a pint to a pound. Let it stand, and when clear pour off all but the potato sediment at the bottom. This is your cleaning mixture, to be applied with a clean linen rag, and followed by the use of a small amount of spirits of w ne. I tried it on a very delicate shade of blue silk, removing every trace of grease without injuring the color in the least.

FOR A DISORDERED LIVER try BRECHAM'S PILLS.

The Houng Folks.

Rounding the Stake-Boat.

She looks well up in the eye of the wind,
Down-pressed by the weight of the northeast gale;
The fleet of fivers is left behind,
And the white foam kisses her low lee rail.

With mainsail reefed and the topmast down,
The lee shrouds curving, the weather
shrouds taut,
Our bowsprit dips in the white-cap's crown,
And we know she is carrying all she ought.

Each sheet stands stiff as a rod of steel—
If anything parts, to the race good by!—
And the firm, strong hands gripped hard on
the wheel
Respond to the glance of the anxious eye,

As the helmsman watches the quiv'ring leach Of the mainsail standing like a board, Of the jib and topmast stay-sail, each Dark with the spray against them poured.

Looming larger and dead ahead, Heaving and rolling, the stake-boat black Bars our road like a phantom dread— The mark we must weather, or miss our

the wind would veer! might we only luff!
We should feel we were down in Luck's good
books;
ut we know we're holding her near enough,
And she'll fetch to windward of where she
looks.

And as if aware that her hour is come, Her hour when the laurel awaits her clutch, Like a steed inspired by the battle drum, She answers the helmsman's cunning touch.

One breathless mement as past we sweep,
And the gun-fire flashes, the whistles sound,
Then with sheets eased off and a gladsome
leap,
The good yacht rushes the goal around.

A light hand leaps on the heel of the boom, And with swift knife slashes the reef knots

free;
Drops in the bunt as it yields him room,
While it brushes the crest of the sending sea.

And swift as a sea-bird spreads its wing,
When he springs inboard, ere there's time to
speak,

The halyards are manned, with a steady swing Mast-heading the mainsail, throat and peak.

And our spinnaker boom to port is swung, To balance the main to the starboard guyed; The topmast rises, and fluttering fast, The big club-topsail is bellying wide.

And squarely the wild northeaster before,
The white wake swirling a mile away,
With a sweeping roll and the foam flung o'er,
The "cup-defender," speeds up the bay.
—Rev. Walter Mitchell, in Harper's Magazine.

INTERESTING FACTS CONCERNING BUTTONS.

The word button (French bouton from bout, an end or extremity, and bouter, te push or place), is less correctly applied to an appendage of dress than to a tiny projection or collet intended to be pressed by the thumb or finger for a specific purpose, of which the aptest illustration is furnished by the terminal button of an electric bell. The idea of utilizing the bouton for hanging anything thereby, or fastening anything thereto, is of comparatively modern date; in short, neither the term ner the article was known to the ancients. The dress of the Greeks and Romans needed not the presence of buttons, ample substitutes for which were found in the clasp. As evidence of this fact it may be cited that among all the paintings and mosaics discovered in the ruins of Pompeii, no single illustration of the butten has ever been brought to light. Nor did the simple costumes of the Anglo-Saxons require those accessories, which nowadays we could ill-afford to dispense with.

BUTTONS ALL OVER 'EM."

Previous to the Norman conquest, then, buttons in this country were altogether u iknown, so that here we have a distinct proof of our historical indebtedness to the French for all innovations of fashion in the matter of costume. The people of Normandy must certainly have been of an inventive turn of mind, or they would never have concleved the utility of buttons in relation to dress. Nothing in nature could have suggested the button, unless, per it was that species of flower known as the "bachelor's button;" but that is scarcely probable. Rather let us say the suggestion came from the already familiar wooden knob, or extremity known as the bout or bouton of their early furniture. We know ourselves how convenient it is to hang any article of dress upon a door or drawer handle, or even on the collet of, a bed post, so there exists no doubt that in this way it was how the Normans hit upon the idea of temporarily attaching one garment to another, until in course of time they dispensed with the ancient clasp altogether.

Once introduced, buttons soon came to be generally adopted by all classes, though no actual reference to them is to be traced in our literature prior to the early part of the fourteenth century. The reign of Edward 1. which ushered in tight-fitting garments,

wrist to the elbow, of both sexes, set as thickly as possible, as may be seen in illuminations, and upon effigies of this period. The writer of "The Romance of Sir Degrevant," for example, in describing the costume of an earl's daughter, observes: "To tell her butenues was toore," i.e., hard—to count her buttons would be difficult. Even the servants of the time became infected with the craze. The habit of aping their masters in this particular is thus satirized by an old author:

Now the horse clawers, clothed in prid, They busk them in buttons as it were a bride.

During the reign of Edward III. the buttons were set close upon one another down the front of the coat hardie (coat or tunic) of males and the gowns of females. In the next century, however, they suffered a considerable decline, in consequence of the introduction of laces and points; but by the sixteenth century they recovered their ascendency to such a degree that not only did they appear in greater profusion and variety than before, but the material of which they were composed included gold, silver and even diamonds.

MARKS OF DISTINCTION.

In the twelfth year of Charles II. buttons constituted the chief imports of the country, and were subjected to a heavy duty. Soon after this reign, however, gold and silver buttons degenerated into those of paste, which at the time rivaled the brilliancy of the most precious gems, while steel buttons of abnormal size, highly polished, became the distinctive mark of the dandles who frequented the Mall and Birdcage walk of St. James' park in the days gone by. In proof of this, a popular caricature of the year 1777 has for its subject one of these effeminate individuals de zzling a lady by the brightness of his steel buttons.

It is, perhaps, well for us that the prosaic age in which we live affords little encouragement for eccentricity in regard to the wearing of buttons, whether in point of size or number. And yet the button rage of the middle ages certainly found a revival between the years 1873 and 1881, during which period the Birmingham button manufacturers must have made their fortunes. Then it was that the buttons on a lady's costume resembled the stars in the heavens, for there existed no possibility of counting them. There were buttons on the back and buttons down the front; buttons over the shoulders and buttons all the way down and across the skirts; buttons on the pockets and buttons everywhere; there were even buttons round the hat.

In China the highest grade of literary distinction is marked by a gold button affixed on the cap of the individual. The different grades of mandarins are likewise denoted by the color of the buttons which they are privileged to wear. So, also, in Europe, a button in front of the cap formerly represented a mark of civil honor. Thus Shakespeare makes Guildenstern in "Ham let" say:

On fortune's cap we are not the very button; meaning not the most highly favored. Again, George Gascoigne, in his "Woodmanship," makes a similar allusion to the courtly favor of one of his gallants:

His bonnet buttoned with gold, His comile cape begarded all with gay, His bombast hose with linings manifold. -London Queen.

The Name America.

The bulletin of the Paris Geographical society, which has just been issued, contains an account of M. Jules Marcon, of certain further researches which he has made into the origin of the name "America." As far back as 1875, he published a paper on the same topic, which attracted much attention at the time, and he has since devoted much labor to an investigation of early historical documents in which the nev

The popular notion that America was so called from the Christian name of Amerigo Vespucci is, he says, wholly unfounded, and he sums up his conclusions in this way: 1. Amerique is the Indian name of the mountains between Juigalpa and Libertad in the Province of Chontales, which separate Lake Nicaragua from the Mosquito coast. The word in the Maya language signifies "the windy country," or "the country where the wind blows always." 2. The Christian name of Vespucci was Alberico in Italian and Spanish, Albericus in Latin. This particular name is subjected to an enormous number of variations, as the nomenclature and calendars of Italian and Spanish saints of the period show; but nowhere is there any such variation of Americus, Amerrigo, Amerigo, Almerigo, etc., and none of these is either a diminutive of a variation in use in

of Saint Die published the name, it is not to be found in any printed document, nor even in any manuscript of recognized and incontestable authority.

M. Marcon claims that his theory of a native origin for the name America has been accepted in Spain, Spanish America, and, with some exceptions, in the United States; in France, Germany and Italy it has excited doubt and surprise, but in the last named, he has the support of the eminent Turin geographer, M. Guido Core. There is no doubt that Columbus and Vespucci went along the Mosquito coast at the feet of the Sierra Amerique, and that the name was reported by the officers and men of these expeditions, and Schoner, the geographer, declared in 1815, that the name was already popular in Europe.

It is beyond question that one edition of Vespucci's letter on his third voyage has the name Amerigo in the place of the Christian name. Nineteen editions had Albericus, and subsequent Italian editions had Alberico. The one with Amerigo on the title page was published in 1506, but M. Marcon suggests that this was never intended to be a variation of Alberico, but rather an adaptation of Amerique, a name already known and applied to the new world, to Vespucci's name to distinguish him, as we now say "Chinese Gordon" to distinguish the particular Gordon by suggesting one of his greatest feats.-London Times.

Consumption Cured.

An old physician, retired from practice, having had placed in his hands by an East India missionary the formula of a simple remedy for the speedy and permanent cure of Consumption, Bronchitis, Catarrh, Asthma and sill Throat and Lung Affections, also a positive and radical cure for Nervous Debility and all Nervous Complaints, after having tested its wonderful curative powers in thousands of cases, has felt it his duty to make it known to his suffering fellows. Actuated by this motive and a desire to relieve human suffering. I will sead free of charge, to all who desire it, this recipe, in German, French or English, with full directions for preparing and using Sent by mail by addressing with stamp, naming this paper, W. A. NOYES, MS Power's Block, Rochester, N. Y.

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KANSAS FARMER CO., Topeka, Kas.

The price of wheat is rising, as our market reports show.

Butler county is making a splendid crop record this year.

The Kansas Farmer will be sent on trial thirteen weeks to new subscribers for 25 cents.

Secretary Mohler in his report for June puts the aggregate wheat yield of the State at 34 768 560 bushels.

Mr. Adamson, the "roasting process" sugar man, is sanguine of success. He is putting in a plant at Minneola, Clark county.

The machinery for the manufacture of twine is inexpensive, and the twine is very easily made, requiring no special skill in its manufacture.

The last fair held at Atchison was in 1881, but this year they have organized the Atchison District fair to be held on September 10-16. Frank Royse is Sec-

A Dickinson county farmer says that by reason of the advice and urging of the Kansas Farmer he sowed 150 prejudice. The nearer we are to prinacres of wheat last fall and now has his reward.

In another column we present a list, as far as reported, of Kansas fairs for 1889. If any of our readers know of any fairs to be held not included in this list we shall be glad to have particulars.

The St. Louis wool market reports quote unwashed Kansas, Nebraska, Wyoming and Utah, medium 22 to 24 cents, coarse 21 to 23 cents, low 17 to 19 cents, light fine 20 to 21 cents, heavy fine 14 to 15 cents.

The crop report of Missouri State Board of Agriculture dated July 5 shows the average yield of wheat for that State to be about fourteen bushels per acre. The average condition of every crop growing is put below 100.

The American Hereford Cattle Breed ers' Association offers special prizes at the Kansas State Fair, September 16 to 21, amounting to \$175, as follows: Best Hereford bull, any age, \$30; best Hereford cow, any age, \$30; best Hereford herd, either aged or graded, \$30; best young herd, \$30; best four animals, any age, the get of one bull, \$30; best steer under three years, \$25.

Breeder's Gazette last week says: At this time last year the choicest beeves were selling around \$6, or \$1.50 per 100 pounds above present prices, Texas cattle were no higher then than now. Hogs are more than \$1 per 100 pounds lower than they were twelve months ago, though just why there should be so great a difference is one of those things that " no fellah can find out."

SHALL WE ABANDON THE OLD PARTIES?

This subject, like every other one of great importance, ought to be discussed in the light of reason; no man is reasonable when his mind is clouded with prejudice; hence, in order to treat this matter fairly it is necessary that all party feeling be for the time ignored, if such a thing be possible. A good citizen ought to be broad enough to know that the interests of all the people are of greater worth than those of a part of them, and he ought to be broad enough in his views to comprehend the truth that the whole country is worth more than any political party. The best service that can be performed for a party is that which is best for the people.

In determining this question of abandoning the old party organizations to make a new one, the turning point in every mind ought to be the common weal. What is best for all the people, for the common interests of the people, and having decided as to that, then inquire what line of procedure will best accomplish the object sought.

First, then, let us consider what is chiefly desired by persons who raise the question. It is desired most of all that the interests of farmers and manual workers in general be better represented in the administration of public affairs. This broadly covers the whole ground, but there are logical divisions following certain lines of labor or convenience, as transportation and money. Without ready means of transporting produce farming has few commercial advantages, and without money there would be no need of railroads or ships. With these facilities we enter the broad field of foreign commerce and that suggests the disturbing query-what about tariff duties? If it be required to state in one word the object of this great movement toward another party organization, the word justice would be employed. Farmers ask for nothing more than justice and they will be satisfied with nothing less. Men differ, however, in many cases about what justice is. The difference is greater as it relates to methods than it is as to the principle involved. Still there are differences relating to fundamental doctrines, and they come partly by reason of education, partly through lack of information, and partly through party ciples the closer we stand in opinions, but the more attention we pay to details the farther apart we go in action.

What is justice in this direction? Is it an equal distribution of burdens? If so, what is such equal distribution, and how shall it be effected? Is it justice to exact from every citizen an equal amount in taxes without regard to the amount or character of his property? Shall property be taxed? If so, shall we include all classes of property, and shall there be any exemptions? Shall we tax labor, or the products of labor? Citizens have equal rights and privileges, but they are unequal in the amount of their natural capital—intelligence, energy, tact, etc. Shall these mental endowments be considered in levying itizana ? Shall we have a single taxthat be in the nature of rent rather than ference in details of work. Are the people agreed as to this matter of taxafor that very reason, among the first to be considered in any movement toward the uniting of forces on a new economic line?

But we have only entered the field of taxation. What about the taxing of commodities imported from foreign countries? If we adopt a tariff system shall the duties be laid upon all articles indiscriminately, or shall we distinguish between classes, and shall the rule of assessment be according to value that presented a distinctly reform plat- differences to be found; but the instant

(ad valorem) or according to quantity form; that is, a platform setting out (specific)? And shall there be anything of details after the main question has been determined.

As to transportation there is no difference of opinion concerning its object; but on the threshold we meet differences concerning the relative rights of owners and patrons of railroads and other transportation lines; then, a little farther along men differ about the rule of compensation, they differ about the basis of measurement, whether the unit shall be a pound or a ton or a carload, and they differ about the rate of increase as quantity or distance increases.

Concerning money radical differences appear and they relate to first princiciples. Money, as it is recognized in law and as it is dealt with in practice, is the property of individual persons, many of whom use it as capital in trade, hiring it out to borrowers, just as a livery stable keeper or a pawnbroker lends to persons for hire. This utterly defeats the operation of the principle of justice, for it takes from one person more than it takes from another for a like service. Interest rates are not uniform in practice. The "money market" varies from day to day in the same places and in different places. And then, persons differ as to the source of money, some insisting that the government's duty is only to coin gold or gold and silver, and to regulate its value. while others believe that money ought to be provided by the government and issued directly to the people without the intervention of banks, and they believe, further, that interest rates ought to be uniform in all parts of the country, being fixed by Congressional enactment.

This is enough to call attention to differences of opinion on matters necessarily involved in the proposed movement, differences relating to principles as well as to details. This, as we look at it, is of primary importance. If we are now not of one mind on vital questions, are we ready for the organization of a new party whose strength, if it has any, will come from union on these very matters? It is believed by sanguine persons that when the expected union of forces takes place at St. Louis in September, three to four million persons will be enrolled in one grand association working for the establishment of justice as herein above outlined. That vast army of workers will be composed of members of political parties now existing. The following table shows how parties stood numeri-

cally at the last two elections: emocrat 4 913 248 rohibition 151,062 abor 65,098 147,521

Those figures show the total vote of the country in the years named, and they show how the people felt on the principal issues at the time. In 1884, Democrats being out, made administrative reform the issue, and won the election. In 1888, being in, they made taxes? Is it necessary to consider them | reforming the tariff the issue and were in order that justice may be done to all defeated. The apparent difference beween the parties on the general suba tax on land, for example, and shall ject of reform was greater in 1884 than it was four years later. The result of a percentage on estimated value of that election scores on the side of reproperty owned? This line of thought form, though subsequent events have brings to view reasons for honest dif- shown that it was a change rather than a reform which was secured by the nearly 5,000,000 voters who supported tion? Is it not a vital one? and is it not Mr. Cleveland. The masses want reform in directions other than those in which the great parties have been going, but certain leading questions have controlled the elections, as they always will, and these special reforms which the people want are kept in the background, and will be until the people in non-partisan associations bring them forward and demand their considera tion by legislative bodies.

The Labor party was the only one

particular reforms desired, and it is only in view except the mere matter of fair to say that the Labor party more revenue? All these divisions of the nearly represented the opinions of tariff subject appear in the discussion leaders in the new movement than any other party did. Democrats in 1876 named specific reforms which were demanded, the platform of that year was affirmed every election year since, yet, though the vote of the party increased at every election, and though the party was successful in 1884, not one step was taken in the direction of particular reforms demanded by the Labor party. And Republicans, successful on the protection issue, will not be likely to inaugurate any special reforms unless the people's wants are made known in other than party meetings where only party measures are discussed.

This brings us to the last consideration. In order to make a successful party, voters are needed; they must be drawn from the old parties, and the numbers must be millions; and the new voters must be converted to the new doctrines espoused by the new party, they must be satisfied with the doctrines in general, and they must agree upon methods of administration. Is there any ground for hope that all this can be done by an attempted breaking away from the old parties? We do not believe there is. Men belonging in the old parties, men by thousands aye, millions, believe in general, just as our alliance and grange friends believe, but the instant you undertake to overturn a man on the tariff question, or on the money question, or on the taxation question, or on the prohibition question, you stir up an enemy. As we view the situation, it is better for farmers and workers in general to form associations for the purpose of discussing and agreeing upon principles, leaving details alone for the present, sowing good seed, getting men well grounded in doctrine, leaving them to preach to their party friends and thus leavening the entire mass. In course of time new reforms will come in that way just as others have come within recent years. Get men of all parties together in the assertion of good principles and they will serve as missionaries in their several party councils. In this way the old parties can be brought forward and the needed work will be done. Let these non-partisan associations speak plainly on all matters of interest, and the fact that thousands of voters indorse them without severing their party relations, will go forth to teach party managers what they need most to know.

The figures above given show how nearly the people are equally divided between the two great parties. And while this equal division appears, it is quite as true that while the Labor party. the only party claiming to be distinctively reform though ignoring the great issue of the last campaign-protection, numbers only 147,521 voters. the number of persons now enrolled in the grange, alliance, and other like associations is probably not less than two millions. It is estimated by persons in position to be well informed that when the Alliance Union is effected the grand aggregate membership will be little if any below four millior. But one of the conditions of the union will be that the association will be non-partisan, for that is fundamental among all the bodies that will unite in the great unit. Let the grange introduce the discussion of party politics into its deliberations and the order would dissolve in a year. The same is true of the alliance, the wheel, and of every like association of men. Citizens, as citizens, differ honestly on great national questions on which parties are divided; they hold to their pelitical opinions as firmly as they do to those relating to their religion. But on matters of special interest to farmers, all farmers are practically agreed. Go out among them and talk to them about transportation, interest, special franchises, monopolies, trusts, etc., and there are no irreconcilable

you raise party issues you discover differences that cannot be adjusted. Right here lies the great obstruction, and it will, sooner or later, serve as the principal object lesson to be learned. Upon the questions of special concern to farmers and hand workers generally, there is little more than apathy to prevent a speedy coming together if the workers are active, earnest and persistent; and when they do get together and demand what they want they will get it, no matter what party is in power. A million alliance men scattered over a dozen States would be divided politically just as working citizens in general are divided, though they would be a unit on those subjects which concern them most directly, and which need only the backing of working people to place them where politicians will take hold of them and do with them just what the people ask. The point is: Farmers are or may be united on some essential things; on some other things they are divided and will so remain; the matters on which they are united are the essential ones in their interest; therefore, let farmers combine on these essential matters, and they will be so many voters that their influence will control in all parties. This leaves men free to act on purely party questions as they desire, at the same time bringing to bear the weight of their combined influence on those matters - transportation, currency, interest, redemption of real estate, taxation, education, etc., on which men do not divide according to party lines. Whenever the membership of farmers' associations, in one grand body, becomes large enough to carry an election for a party of its own, it would be large enough to control every other party if the members were divided just as they now are on party lines.

The KANSAS FARMER believes that the present movement of farmers will succeed by concentrating on the essentials as above indicated, and that it will not succeed if it undertakes to interfere with the party opinions of voters.

Co-operation Among Farmers.

What farmers most need in the commercial line is union, working together, association, combining the strength of individual persons in a larger unit, in order that the same principles of business which other classes of citizens have adopted may be employed by farmers in the transaction of their business. One hundred farmers acting separately, do the work of a hundred persons, and it requires just that many men to do the business-one manager for every farmer. One hundred farmers associated and doing their business as one body, need but one person to attend the business; one person may sell all the products of the hundred, and he may buy all the supplies. Such a combination is in position to secure and hold advantages in every direction which one man alone cannot command. And besides these advantages, when one farmer is in need of assistance, the association can help him without inconvenience, and thus save him the necessity of borrowing money at high rates of interest. A friend sends us the following clipping, which is suggestive:

"As has often been said, says a Connecticut farmer, 'middlemen take all tions, independently of his duty under the profits.' I see no reason why the the law. day should not come when the farmers will buy and sell their own goods entirely. In some sections this is largely the case now; but it is only because the farmers are united and work together. This is most noticeable in the co-operative creameries in New England. The farmers now manufacture their butter and fix a price on it, instead of, as before, taking it to the store and 'trading it out' at the store keeper's price. If the farmers can manufacture and sell butter in this way, why can't they grow and sell potatoes and the other crops in the same way? I hope to see the day flour. Allowing these middlemen to under Prof. Kellerman.

corner' our crops and take our profits D. M. Osborne & Co. and Binding Twine. are things we will have to prevent, either by handling our own crops or by making our voice heard in the Legislatures. This can only be done through co-operation."

The Business Situation.

Reviewing the state of trade for last week, R. G. Dun & Co., New York's commercial agency, say: Business has been fairly maintained in volume, and is gradually improving in prospects. June has been a month of unusually large transactions. Prices of commodities, despite the rise of some speculative markets, have fallen during the month about 2 per cent. and are hardly now 12 above the lowest average ever recorded. But there are signs of substantial improvement in the most important branches of industry.

The monetary situation remains undisturbed. Nevertheless the stock market, by many considered an indication of the future, has been sinking. The wars of Western, and to some extent of Eastern railroads have disheartened many buyers. The half-yearly return of failures shows a relatively larger increase in New England than in any other section, about 28 per cent., and next in the trans-Mississippi regions this side of the Rocky mountains about 20 per cent. In the Middle States the increase has been but 4 1-5 per cent., thence to the Mississippi about 5 per cent., and the South about 31 per cent. Against a general increase of 8 per cent. there is a decrease of 31 per cent. in aggregate liabilities. The markets have not changed greatly during the week.

The monetary prospect is clouded by the exports of \$17,707,640 gold and \$1,135,464 of silver from New York alone since June 1. In consequence the circulation has been reduced \$17,000,000 in June, though the aggregate is even now \$8,000,000 larger than a year ago. It is felt that a continued outgo in July would be apt to cause pressure in Sep-

The business failures number 202 as compared with 215 last week and 220 the week previous. For the corresponding week of last year the figures were

Silos and Ensilage.

Bulletin No. 6, Kansas Experiment Station, is the result of experiments made on the College farm under direction of Prof. Shelton. We will reproduce it in the KANSAS FARMER next week. In the meantime, persons desiring it, with accompanying tables, should address Prof. Shelton, Director, Manhattan, Kas.

Lectures on Forestry.

The law establishing forestry stations in Kansas requires the Superintendent when petitioned by twenty-five or more persons in any county to go to such county and hold meetings instructing the people in the culture of trees. It has been suggested that Mr. Allen, the Superintendent, could be made serviceable in this direction by acting in connection with farmers' institutes. He could visit a good many counties in a circuit giving one lecture at each insti-

Honor to Whom Honor is Due.

Mr. President Fairchild, of the State Agricultural college, calls our attention to an omission in our notice of the annual report of the Experiment Station. Carelessly we neglected to give proper credit for the work which the report shows was done. Of the 350 pages of matter contained in the report. 116 represent the Farm department, of which Prof. Shelton is head, forty-eight pages present chemical work under Prof. Failyer, 116 pages give the work in horticulture and entomology, of which when our Western farmers will own Prof. Popenoe has charge, and sixtytheir own mills and make their own nine pages describe the work in botany

The following letter explains itself. It is printed in accordance with our rule to let the party accused answer for himself, provided always he is reasonable about the length of his answer:

ST. LOUIS, Mo., July 5, 1889. EDITOR KANSAS FARMER:-We are in receipt of a copy of your paper of June 27, and notice in the alliance correspondence that Mr. John L. Downing. Secretary of some farmers' alliance in Kansas, has addressed a letter to you regarding carload of binding twine which he claims that we sold to the alliance. In justice to us we would like you to publish the following:

Referring to letter and resolutions signed by John L. Downing, Secretary of alliance, we have to say that he does not state the matter correctly and fairly. Some time ago one of our traveling men called on the Morris County Alliance and took an order for a carload of twine, which was taken with the distinct understanding that it was subject to the approval of D. M. Osborne & Co., of St. Louis. Our contract so read that no contract for twine will be valid unless approved by us. This contract was not approved and we wrote the alliance as soon as we had thoroughly investigated the matter that we could not accept the order. We consider that we treated them entirely fair as we always do all of our customers.

> Very truly yours, D. M. OSBORNE & Co.

The Silk Outlook is Good.

Dr. Buck, Superintendent of the Silk Station, is very much encouraged by the interest in silk culture manifest among Kansas people. He says the season has not been a good one for making the best silk, but a great many cocoons have been raised. He distributed a large quantity of eggs among persons residing in twenty-seven different counties of the State. The station is paying 331 cents a pound for green cocoons and \$1 a pound for good dry ones. The Doctor thinks it is better for the growers to send in the cocoons green and let the worm be stifled at the station. where the work can be done more uniformly and more economically, securing best results. A new stifling implement was recently received from the Department of Agriculture at Washington. Inexperienced persons are in danger of spoiling silk in the process of stifling or otherwise destroying the worms, and as one to three is a fair proportion in prices of green and dry cocoons, the grower will lose nothing and may save something by selling the cocoors green.

To Members of P. of H.

The Committee on Women's Work in Capital Grange, Topeks, have decided to take for consideration during the next six months the constitution of the United States. The first five sections will be considered at the next meeting on July 13 A thorough study of contemporaneous history bearing on the sulject will be in order.

This constitutes only one of many good features of this stalwart farmers' organization. Farmers who are not tute. Mr. Allen, we doubt not, would now members are cordially invited to cheerfully respond to any such invita- join the order of Patrons of Husbandry.

> Whitman Agricultural Co., St. Louis, have our thanks for the most complete catalogue of agricultural machinery that we ever received. It will make a valuable book for our library. They have the most complete line of hay presses. horse powers, corn shellers, cider mills, feed cutters, and seed sowers. Every business agent of the Farmers' Alliance and every exchange should have a copy of this catalogue.

The State Fair last year provided a large refrigerator in order to encourage a dairy exhibit and the display was very meager indeed. In view of the rapid strides made by this industry during the past year, we trust that Kansas dairymen will see that an exhibit is

made this year that will show to the world the progress made by this important industry. The Kansas Dairy Association should see to it.

There was not one day last month which was entirely free from clouds at the meteorological observing station, State University, Lawrence, according to Prof. Snow's report.

We desire special attention of our readers to the new advertisement of Ames Plow Co., Boston, in this issue. They make a very desirable line of machinery that is very much in demand. They are one of the largest manufacturing establishments of farm implement machines in this country. Their eighty-five-page catalogue contains an interesting array of nearly every kind of machinery for the farm. Don't fail to write to them for particu-

The first annual exhibition of the Kansas Poultry and Pet Stock Association will be held in Wichita, December 3, 4, 5 and 6, Theodore Hewes, of Trenton, Mo., judge. All breeders of poultry or pet stock who are not already members of the association are cordially invited to send in their applications for membership accompanied with the fee of \$1. Let us make an extra effort to have the grandest poultry exhibition on record, competition open to the world. For further particulars address

> HARRY SWIFT, Secretary, Marion, Kas.

Weather-Orop Bulletin

Of the Kansas weather service in co-operation with the United States Signal Service. for the week ending Saturday, July 7, 1889. Precipitation.—The rainfall has been light this week in most of the countles; some counties in the northeast, some in the central, and some in the southwest reporting no rain. Nearly all the observers speak of good showers passing their stations. On the 2nd it sprinkled in Lawrence, while to the west the roads were rendered muddy to within a mile of town. Same day, a tenth of an inch fell at Marydale farm, two miles north; it was heavy enough to fill the gutters and start the creek. Good rains have fallen in Johnson, Montgomery, Reno, Ford and from Salina west. Excessive rains in Chautauqua, the contiguous portions Ellis and Trege, and in Greeley.

Temperature and Sunshine.-A high temperature prevailed during the opening days of the week, ranging from 2 deg. to 4 deg. in excess of the normal, but with the approach of the high barometer on the 2nd it dropped below the normal, ranging from 2 deg. to 7 deg. below, the rest of the week. This cool wave was felt all over the State. In the western counties the temperature rapidly ross above the normal on the 5th.

The sunshine has been about normal.

Results.—The conditions of the weather

rapidly rose above the normal on the 5th. The sunshine has been about normal.

Results.—The conditions of the weather have generally been very favorable to the crops. Corn and potatoes have made excellent progress, while the former is tasseling in the southern counties, and in some is silking. In the south the wheat and rye are harvested, mostly stacked and threshing is now in progress; in the central counties the oat harvest is well under way, while in the northern the wheat harvest is being pushed to a conclusion. Rust has touched the oats in most of the eastern counties. In the southern counties cotton is doing well. Chinch bugs are reported at work in many counties of the eastern division.

T. B. JENNINGS,

Signal Corps, Asst. Director.

Kansas Fairs for 1889.

Kansas Fairs for 1889.

Kansas State Fair, Topeka, September 16 21.

Anderson ceunty, Garnett, August 27-30.

Atchison District, Atchison, September 10-16.

Barber county, Klowa, October 15-17.

Brown county, Hiswatha, September 3-7.

Chase county, Clay Center, October 1-4.

Coffey county, Burlington, September 25-28.

Clay county, Burlington, September 29-18.

Crawford county, Girard, September 10-18.

Crawford county, Girard, September 10-18.

Franklin county, Utawa, September 10-18.

Franklin county, Utawa, September 26-28.

Harvey county, Newton, September 10-18.

Jefferson county, Hill City, September 10-18.

Jewell county, Mankato, September 10-18.

Lincoln county, Lincoln, September 10-18.

Lincoln county, Lincoln, September 10-18.

Lincoln county, Lincoln, September 10-18.

Lincounty, Pleasanton, September 16-20.

Linn county, Pleasanton, September 10-18.

Marion county, Council Greve, September 24-27.

Nembas county, Seneca, September 17-20.

Neosho county, Erie, October 1-8.

Osage county, Burlingsme, September 10-18.

Plainville fair, Plainville, September 17-20.

Plainville fair, Plainville, September 17-20.

Raw, Ins county, Hutchinson, September 17-20.

Raw, Ins county, Hainville, September 11-20.

Raw, Ins county, Hutchinson, September 11-20.

Raw, Ins county, Balina, September 18-21.

Senida county, Salina, September 18-21.

Senida county, Salina, September 18-21.

Senida county, Salina, September 11-20.

Resumer ceuaty, Wellington, Angust 27-27.

Sherman county, Salina, September 11-21.

Sumner ceuaty, Wellington, Angust 27-28.

Woodsen county, Neosho Falls, August 20-23.

Borticulture.

THE GRAPE INDUSTRY IN MISSOUR L Address of G. E. Meisner, before the American Nursery Association, at the last meeting.

MR. PRESIDENT:-That you have requested me to say a few words about the grape interest in Missouri, I suppose is only due to the fact that Missouri grapes and Missouri wines have a good name and well established reputation throughout the country, and though perhaps the grape industry of our State is not as extensive as it is in some other sections, in the quality of our products, especially our wines, we stand second to no other, neither the Golden State on the Pacific, nor the Empire and Buckeye States in the East.

It is now some forty or fifty years ago that grape culture on any extensive scale was first attempted in Missouri by the German settlers on the banks of the Mississippi and Missouri rivers. The success which crowned the first attempts of these pioneers, especially around the little town of Herman, quickly encouraged others to follow, and grape culture soon assumed quite an important role in the industries of our State. At first the old Catawba and Isabella, together with a small proportion of Norton's Virginia, supplied the bulk of the vines plar.ted here, until, with the introduction of the Concord, a new impetus was given to grape culture and vineyards sprang up all over the State. In those days the dreaded grape diseases (rot and mildew) were almost unknown, and grape culture seemed not only to be one of the most profitable, but also one of the safest and most reliable pursuits. For some years this proved really the case, but alas! that it did not continue so. By the advent of the black rot and mildew, grape culture in Missouri, in common with grape culture throughout the largest portion of our country received a severe check. The old Isabella and Catawba were the first to fail, and even the Concord after a few years proved unreliable over a great extent of territory, and many vineyardists, who had staked all their hopes, their labor and expense on these varieties became discouraged and abandoned their vineyards or gave them over to other cultures. Not so, however, those who were fortunate enough to have planted the Norton's Virginia, or other varieties less subject to the attacks of fungoid diseases. Their vineyards continued to flourish and yield remunerative returns. More attention was necessarily given to such varieties and kinds as Cynthiana, Ives, and Perkins, and they gained more prominence. New varieties, originated in Missouri, were introduced, notable among them the Elvira, Missouri, Riesling, Etta and Monteflore, which succeed well, and have given new courage to many of our grape-growers. Some of the varieties named may not be what we would call first-class table grapes, but they are reasonably reliable, produce good crops, and their fruit finds ready disposal in the markets for canning, cooking or preserving, or through the presses of the wine cellars.

What is the most encourage the most important, however, and this applies not only to Missouri but to American grape culture throughout the entire country, is the well-founded hope that the grape-grower may soon have his greatest enemies (the dreaded grape mildew and black rot) under control, and may prevent their ravages by timely applications of the copper salt remedies, which have so largely been experimented on, and with generally favorable results during the last two years.

If, as I am now almost convinced, this hope shall be verified, our finest, choicest and most delicate table grapes, as well as many additional valuable wine grapes will be grown successfully, not only in Missouri but throughout a vast extent of our country, where the grape has hitherto been considered a time of Columbus, and unless some-

our national agricultural industries.

As to the copper salt remedies before referred to, full directions for their preparation and proper application can be obtained from Department of Agriculture at Washington, which, under the direction of its late Commissioner and Secretary, and former President of this society, the Hon. Norman J. Colman, of Missouri, deserves the highest credit for the great attention which it has given to this and other matters pertaining to practical horticulture. In view of this and in further view of the excellent administration in general, which he has given to his Department throughout the term of his office, I beg to conclude my remarks, Mr. President, by moving that we, as his brother nurserymen in convention assembled, express our recognition by an especial vote of thanks or approval to Norman J. Colman for the services which he has rendered as the head of the Department of Agriculture. He is a member of our fraternity of whom we may all feel proud, and of whom none need feel iealous.

New Fruits.

EDITOR KANSAS FARMER: - The present season gave us an abundant strawberry harvest. All kinds did well and yielded their utmost; yet people always desire the best and wish only to cultivate what will seem and be most remunerative. While the Crescent is as good as any one can expect for an early berry for family use, it is worth very little for market—too soft. There are none much earlier. The Mammoth is a little more so, with a few fine berries, and this may take the place of the Crescent, being better for market. The attention of the public has been divided between the Jessie and Bubach No. 5, both claiming to be the best in all essentials. Whether this year's trial decides for all time to come, remains to be seen, but the Jessie will have the more advocates; it is the most productive, large fruit and strong plants. But the Bubach will produce the largest berry, and is a strong, healthy plant. The Gandy's Prize is an exceedingly fine late variety, with vigorous plants; and the Bomba is the perfection of strawberry, in size, shape, and color (which comes on all sides alike) of any yet tried. There are lots of others, as good or better, but not yet fruited. Strawberry-growers can dispense with Downing, Crescent, Sharpless, Wilson, and a host like them. A. H. GRIESA. Lawrence, Kas.

Tree Culture in Nebraska.

EDITOR KANSAS FARMER: - The great necessity of forests, and their importance as a supply of fuel, for manufacturing purposes, for their influence on the climate of a country in tempering the extremes of the heat of summer and in modifying the cold of winter, by preventing the radiation of heat, and for their effect on the rainfall, will be recognized by all. A few instances may be cited to show the effect timber has had in modifying or changing the climate and rainfall of a country. Asia always advisable to adopt a treatment Minor was once a fertile land and supported a much larger population than at present. It is referred to in the Bible as a land flowing with milk and honey. How different to-day-a barren waste of sand and rock, without timber or vegetation of any kind to temper the flerce glare of a semi-tropical sun. Travelers who have visited this land are surprised at its barrenness and that it could have been the fertile country it was fifteen hundred years ago. The destruction of the forests has undoubtedly been the chief cause in producing this change, by producing less rainfall. Other places may be referred to where the clearing away of the forests has affected the climate and rainfall. Spain is not as fertile a country now as in the rather unreliable food, and American thing is done to check the destruction

grape culture will take a development of the forests it will only be a question that will place it high in the ranks of of time when that country will be a desert. The climate of Italy is also being changed from the same cause, but not to so great an extent. Humboldt says, "By felling the trees covering the hills and mountains under all zones men prepare for the coming generation a two-fold plague, lack of fuel and lack of water."

On the other hand, the planting of forest trees has a great effect on the climate and rainfall of a country. Lower Egypt formerly did not receive a drop of rain, but now twenty or thirty days of drizzling rain occur annually, and this change has been effected by the planting of millions of trees in that country in the last few years. Many such cases could be cited to show the effect produced by the change in the forest area of a country, but this is sufficient to show that tree culture should be encouraged, especially in countries where the area of timber is limited. The forest area of Nebraska is very small; probably not over 2 per cent. of the entire surface of the State is covered by natural forests. Tree culture has been encouraged by the State since 1876, when Arbor Day was made a legal holiday. Since that time millions of trees have been planted. These trees, with the cultivated land, have been the direct cause of the increase of rainfall of the State. The rainfall has been steadily increasing for the last fifteen years. What was once a barren waste and totally unfit for farming is now the best agricultural section of the State. Timber increases the amount of moisture in a country by preventing radiation of heat, by shading the ground and retaining the moisture longer, and by keeping the atmosphere cooler, thus producing condensation and rainfall.

S. W. VEACH. Peru, Neb.

Pruning Shrubs.

Shrubs, like trees, are pruned for different purposes, and no one rule will apply for all cases. The shade tree requires pruning, but not of the same kind as the apple tree, which must be pruned with the view to making it produce the best fruit, and a liberal supply of it. Shrubs are similar to trees in this respect. Some are pruned for grace and symmetry, while others are pruned in order to make the production of flowers greater. Shrubs should not be cut back so ruthlessly. They should be sheared off evenly and uniformly in growing in a border. Grace and beauty are the two things desired, and this cannot be obtained any better than by trimming the sides off in a symmetrical curve. Single, isolated plants should be made to assume the appearance of an egg or a perfect sphere.

Flowering shrubs should be carefully pruned. Every branch that is lopped off is likely to carry with it several buds, which would in time present handsome flowers. If the pruning is done after the buds are formed, the shrubs will attempt to repair the loss by throwing out new shoots, which will bear abundant flowers the following spring. In this way pruning will sometimes encourage a strong growth of flowering wood. In pruning it is not that has only one season of flowering in view. The time of flowering is short, and the general shape and grace of the shrub should also be had in view when cutting off the branches. Even in winter a gracefully trimmed shrub has a grace and beauty of its own. As a general rule then no shrub should be cut back so as to impair its vigor or to ruin its natural outlines. Weak shoots only should be cut off and in such a way as to develop the best form of the whole plant.-Geo. Wilson, in Indiana Farmer.

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The Poultry Hard.

FOOD FOR YOUNG OHIOKS.

Until twenty-four hours old, a chick does not require food. Its system still retains undigested a portion of the yelk of the egg, and when that reserve fund is exhausted, something of a like nature should be offered. I have tried a good many different kinds of foods, and find that soft egg-bread broken inte a pan of sweet milk and heated to the boiling point, to be the best food for young chicks until they are one week old. After that time, sound wheat, boiled until soft but not until it becomes a solid mass, should be given. The wheat can either be given alone, or mixed with the bread and milk prepared as described above.

Table scraps, as bits of bread, meat and cold vegetables, softened with sweet milk, or with the richest of the liquor in which the meat and vegetables have been boiled, form what the little chickens consider a very palatable meal. If you want your chicks to live and grow fast, feed them liberally from the start; it makes them strong and vigorous, and prevents their falling a prey to all sorts of diseases.

Once a day, at least, their mess should be seasoned with chopped meat or dripping. Fresh meat is no doubt preferable to salt pork and bacon, but the latter will make a very good substitute when given in a reasonable quantity. Every few days Flora gathers up all the meat skins, bacon rinds and odds and ends of both fat and lean meat, and puts them on in plenty of water and cooks them until even the meat skins are tender enough to come to pieces. This is chopped fine and mixed with the morning meal for the chicks.

Our plan is to give them their breakfast in their coops, which stops their mouths and contents them nicely for awhile; then after the sun has risen, and nearly or quite dried the dews from the grass, we let them all out. By that time they are usually very hungry again, and are disposed to stand around and beg for another meal, but we are obdurate, and "shoo" them all out into the orchard to see what they can glean. By thus sending them off hungry they take a larger range, and show more energy and enterprise in satisfying their

The coops should then be turned over to air, the floors cleaned off, and when necessary moved to a clean spot on the grass, and the little dead chickens picked up and thrown away, but this spring we have attended to them so well that there have scarcely been half a dozen dead ones to be found at all. At 10 o'clock we make another pilgrimage to the poultry yard, I with a bucket of boiled wheat mixed with bread and milk, and Flora with a large wooden bucket of buttermilk, or thick clabber, and a tin dipper. Together we make the rou: ds of the feeding coops, I putting a liberal feed in each one on a clean bit of board or an old tin pan, while Flora fills with milk each of the shallow pans which is placed near the coops.

We are very proud of our feeding coops, not that they are so handsome, but because there are so many of them Before this we have had only one or two, but this year we made nearly a dozen. so that the hens could almost have one apiece, and not fight over them so badly.

They are very simple affairs, only square pens made of tobacco sticks, arranged so that some of the interstices are large enough to admit the little chicks. The top is made of loose boards. as they must be uncovered every evening, for one of our neighbors keeps a pack of hounds that visit us every night, and if they have any difficulty in reaching the few crumbs that remain in the coops they demolish them entirely.

When we go out to the yard at the regular hour for feeding, the watchful old mothers note our approach, and

before them. The chicks rush into the coops and make haste to fill their crops, while their mothers stand by and cluck. thankful to pick up a stray crumb hore and there. At 1 o'clock this performance is again repeated, and again at 4, when those hens whose broods are very young are gently driven into their own coops, fed there and fastened up for the night.

Until they are a week or ten days old, I do not permit them to stay out all day. the little things are so tender and so easily tired. The other chicks are fed no more that day, sufficient food being placed in their coops for their supper. Milk is given them twice a day, at 10 in the morning and again at 3 or 4 in the afternoon. All the year round my fowls have as much milk as they can drink, and no flock can show a better record for good health, or a more commendable appearance of general thriftiness.

To some extent I attribute it to those same hounds I spoke of above; they are such excellent scavengers, come every night and devour everything that is left, and leave the drinking troughs and feeding pans perfectly clean, so that not a drop of milk or crumb of bread is left to get old and rancid. Neither is my poultry yard troubled by depredations from vermin, as is the case with some of my neighbors, so now I often leave something on purpose for the dogs. They do not molest the chickens themselves, and the vermin are afraid to come near a place frequented by them.

Where the ground is much shaded little chickens are likely to suffer from gapes. The only preventive I know of is to keep them out of the dew, and to confine them to their coops in rainy weather. This spring too, I have been giving them a few drops of turpentine in their feed once a day, and have noticed but few cases of gapes, but I am rather inclined to attribute it to the unusually favorable weather.

They have also been fed upon cooked food entirely, which I think much more wholesome for chicks until one month

All this is a great deal of trouble I must admit, but the pleasure of seeing the chicks grow off so fine and healthy makes one forget that; then, too, there is a certain satisfaction to be gained from doing even the simplest thing really well .- A Farmer's Daughter, in Country Gentleman.

Poultry Notes.

We hope all our readers love poultry. If you are not a breeder you should be.

A cross of the Toulouse gander and Embden goose produces a goose larger than either of the parents. There is no profit in geese if they are confined.

The average farmer thinks the fowls can take care of themselves in hot weather. Yet he will coop a brood of chicks in the open field, subject to the direct rays of the sun, and deem them well cared for. You must learn better than this; success will never meet your efforts half way.

The hens will lay as well with no cocks present as with them, and the eggs will keep twice as long. This may be a small matter to notice, but it is a very important item in the matter of the object to be observed when the eggs are stowed away.

Make the surroundings of your poultry houses look neat and inviting whether you have pure stock or mongrels. A little extra labor with but a small outlay of currency will turn an "eye sore" into a "thing of beauty." Then your birds will be healthy and happy fowls, are a source of unlimited pleasure, while a flock of drooping, ragged-looking birds cause only pity and disgust.

On farms where there is plenty of range guineas are of great advantage. They do not scratch or do damage, but destroy large numbers of insects. searching everywhere for them. It hatched under hens and induced to come to meet us from every direction roost near the house at night, thay will with their eager little broods running give the alarm should intruders put in

an appearance, being always on the alert for hawks or owls. The Pearl guinea is the best known, though the Whites are favorites with some.

The best whitewash we have ever had knowledge of is composed of lime, slacked to the proper consistency of application, into which for inside work while hot, mix a starch made from half a pound of flour or two ounces of common white glue, thoroughly dissolved. For outside work add to the above preparation a handful of rock salt and as much soft boiled rice. This will stick with certainty.

A good remedy for cholera in chickens is a teaspoonful of castor oil slightly warm. If the first dose does not act well give more in about eight hours, and so on until the bowels act. I have never had to give more than two desea but twice. Keep the chickens in a dry coop and give no water until medicine has acted well, then allow them to have three swallows three times a day until they are looking better, and feed them on soft feed.

A roup remedy which has met with excellent results is as follows: Take one teaspoonful of lard, three-fourths teaspoonful of cayenne pepper, thirty drops of carbolic acid, and a piece of borax the size of a grain of corn (powdered fine), mix well and add enough meal to make a dough. Roll into pills the size of small marbles and give two a day. When you catch the chick squeeze out his pass greed and run a fasther up out his nose good and run a feather up it as far as you can saturated with kero-sene oil. Keep the chicks in for a few days. Give little ones half a pill. If they rattle in the throat give a teaspoonful of kerosene oil.



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Spermatorrhea, Impotency, Nervous Debility, etc., resulting from youthful indiscretion,
Spermatorrhea, Impotency, Nerv KANSAS CITY, MO.

H. J. WHITTIER, M. D., 10 W. Ninth St., Kansas City, Mo. NO FEE UNTIL CURED, from responsible person NEW BOOK on diseases of men, free. Address,

ADDITIONAL OROP REPORTS.

The following reports did not come to hand in time for last week's issue, hence they are given this week:

they are given this week:

Barton County.—Wheat very good; farmers crowding the harvest, and as the grain ripens slowly there is but little very ripe grain. Oats very good but somewhat short in straw generally, and ripening up well with wheat and rye. Corn is looking fine, a little short of common growth at this time of season, but generally very well cultivated and clean. Rye is excellent and heavy growth, mostly cut. Preparation for testing corn on stubble but in a limited way. We have had a very fine rain to-day, and perhaps more will plant than have expected to. Sorghum, Kaffir corn, and in fact everything is looking very promising.

Cowley.—Excessive rains retarded the wheat harvest very much. There is some yet to cut where the ground is too wet. It is now being put into the stack. Wheat is good, yielding well. Oats are being cut; are rusted quite badly. Some corn now being planted with lister on wheat stubble. Quite an acreage of sorghum will be planted on wheat stubble. All other creps are looking well.

Chautauqua.—Wheat a perfect crop in all

wheat stubble. All other crops are looking well.

Chautauqua.—Wheat a perfect crop in all respects, and generally well saved, yield from twenty to forty bushels per acre. Oats did promise as good as wheat but part of the early sown is injured by the rust. Late appears to be better. Very little if any other crops planted on wheat stubble. All other crops promise more than an average. Cane, Kaffir corn, millett and even the early planted Dent corn promise a most abundant crop; it is now in silk and tassel.

Cloud.—Wheat damaged slightly by rust. Oats extra good, will probably average over sixty bushels per acre. A little smut in some localities. Corn never better. Potatoes and other vegetables good.

Decatur.—Wheat promises to be a fair crop in this county. Oats are injured some by dry weather and continuous heavy winds, will perhaps be two-thirds crop. Rye is injured, not more than one-half crop. Corn is looking exceedingly well, promises to be a good crop. Sorghum is looking well. The acreage of all kinds of crops is larger than usual in this county.

Douglas.—Wheat crop is good and had a

is looking exceedingly well, promises to be a good crop. Sorghum is looking well. The acreage of all kinds of crops is larger than insual in this county.

Douglas.—Wheat crop is good and had a good season to develop it and fine weather for harvest. Oats are never better; a full area is grown this season and will soen be ready for the reaper. Corn is good for the season, except where on wet land, is weedy. More planted here on wheat stubble. Kaffir corn grown only as an experiment. Tame grass is excellent, while prarie grass is reported light.

Edwards.—Wheat and early sewn oats a good crop. Wheat ground being plowed extensively for corn and forage crops. All crops in first rate condition. Prospect charming and farmers jubliant.

Greenwood.—Oats splendid crop, straw long, well headed, kernels large and fine. Winter wheat excellent and now being headed. Spring wheat not yet ready to harvest, but bids fair for a full crop. The hay crop is the heaviest in years. Sorghum is doing finely, and that sown for fodder will be an immense crop. Kaffir corn has done well, but not very much planted this year. Millet is looking good. No chinch bugs to speak of. Petatoes are the best raised for several years. Peaches getting ripe and are of fine quality. Apples will not be as big a crop as last year.

Garfield.—Wheat light stand, short straw but heads well filled, some destroyed by hall. Some oats reported pretty good and some worthless. No corn planted on stubble. Corn reported fine but some of it weedy. Sorghum fine, except the early planting weedy. Have had heavy rains this week and everything growing very fast.

Gove.—Where seasonable rains fell the wheat is very good, some claiming thirty-five to forty bushels per acre, while in more unfavorable portions the crop will not make over five bushels. Oats about same as wheat. Rye good. Corn, where well tended and kept clean, is growing very fast and in fine condition, but where neglected is curling during the heat of the day and needs rain badly. Sorghum, Kaffir corn and milo m

maize are in good condition, sorghum exceedingly so.

Grecley.—The much-needed rains of May have been fully made up by the excessive June rains. Rye and wheat 80 per cent. of a crop. Sorghum, millet, potatoes and corn bid fair for a full crop. Surface water pienty, ponds all full. Everything in fine condition and all are hopeful.

Hamilton.—May was dry, plenty of rain through June. Crops backward but prospects good. There has been no hall to do injury; no chinch bugs. There are some fields of spring wheat and barley in this neighborhood that would be thought good anywhere. Winter wheat and oats are short but well headed. This season has established the possibility to grow alfalfa on upbut well headed. This season has established the possibility to grow alfalfa on upland without irrigation. Kaffir corn, milo maize, rice corn and sorghum are in splendid condition. New potatoes and other vegetables are abundant. The county is too new for fruits.

Jackson.—Wheat in shock, fair both in yield and quality. Oats good, just ready to harvest, some rust on straw. Corn promising, plowing it last time. Increased acreage of sorghum for strup, looks well. Flax and

of sorghum for sirup, looks well. Flax and

ing, prowing it last time. Increased agreege of sorghum for sirup, looks well. Flax and millet excellent.

Jefferson.—Wheat on upland not so good as was thought before harvesting time, all in shock. Oats beginning to ripen; about three-fourths of a crop, short on account of rust. Corn in good shape, fields generally clean, about all laid by. Sorghum in good condition. No new crops.

Lane.—Wheat and rye being put in stack; yield is better than any previous year. Oats yielding well. Corn, Kaffir corn and milo maize look well. Early potatoes fair. Had timely rains thus far.

Mtumi.—Wheat is matured in good shape. Oats getting ripe and will make a No. 1 crop, both as to yield and quality. Corn foul but healthy. The limited crop of sor-

ghum in good condition. Potatoes very good, and the market full of home-grown fruits.

Mitchell -We are in the middle of whea Mitchell—We are in the middle of wheat harvest; large crop, good quality, small amount of rust in places but confined to late seeded fields. Oats immense, and corn everywhere and growing faster than scheduled time. Sorghum, Kaffir corn, millet, potatoes and vegetables are making strong growth.

potatoes and vegetables are making strong growth.

Norton — Wheat, oats and corn are in the best shape and nicest prospects for crops we have had in northwest Kansas for last three years. Potatoes are jumping to the front this year; they are so pienty that two weeks ago they were \$2 per bushel, yesterday 50 cents. No Kaffir corn raised here. Sorghum doing fine, largest acreage ever known.

Ochorne — Some pieces of fall wheat dam-

doing fine, largest acreage ever known.

Osborne.—Some pieces of fall wheat damaged by rust, others good. Rve a heavy crop. Oats very heavy, many fields already in shock. Corn growing well, and where clean is very promising. Sorghum is doing well, now warm weather has come. All busy taking care of the unusually large small grain crop.

Ottawa.—Wheat most all in shock and stack, crop simply immense. Oats, potatoes, sorghum, in fact all crops are first-class. There is being some sorghum and corn planted after the header.

Phillips.—Wheat is rather above the av-

corn planted after the header.

Phillips.—Wheat is rather above the average, and it is free from rust or chinch bugs.
Oats are rather short straw, but are well headed, and will be above the average crop.
Rye and other small grains are good. So far the corn is looking nicely and the fields are in a cleaner condition than is usual at this season of the year. Sorghum is looking well.

this season of the year. Sorghum is looking well.

Pottawatomie. — Winter wheat is harvested and a better crop we have not raised for years. Harvesting oats is about to commence and the prospect for a crop looks flattering. Corn is well cultivated and clean, but not as far advanced at this date as in other years. Prospect for a general crop at this date looks well.

Rice.—Farmers are now in the midst of harvest and are gathering the heaviest wheat crop ever grown in this portion of Kansas. Oats are ready, crop very heavy, will average 50 to 60 bushels per acre, much is down and will have to be cut with soythe. Irish potates are simply magnificent. A large area has been planted to sweet potatoes. Corn is very promising. Sorghum and Kaffir corn are in excellent condition.

Reno.—Wheat nearly cut, some May wheat threshed makes from eighteen to twenty-five bushels per acre. Oats being cut, will make a fair crop, partly hurt by rust. Corn looks splendid and is now tasseling. Nearly all the farmers are putting wheat stubble in ninety-day Leaming corn, mostly listing. Altogether, prospects have not been brighter for many years.

Rooks.— The wheat, rye and oats are all

farmers are putting wheat stubble in ninety-day Leaming corn, mostly listing. Altogether, prospects have not been brighter for many years.

Rooks.— The wheat, rye and oats are all ready for the sickle. About one-third of the harvesting is dene; yield will be about twenty-two bushels for wheat, thirty for oats and twenty-five for rye. The wheat and rye kernels will mostly be plump, yet in some spots it has failed to mature fully on account of lack of moisture at the proper time; oats will be light in weight from the same cause. Very little corn will be planted on stubble. Corn planted at the proper time is looking very good. Sorghum is also doing well, many acres of which have been sown to be cut as hay.

Sheridan.—Wheat and oats are good. Corn is good, is rather small, but the recent rain will bring it out all right. Sorghum and Kaffr corn looks well. There is some flax and I believe it is the best crop for this county. Potatoes in abundance. Grass looks well.

Stafford.—Wheat all cut, mostly with the header; acreage not large but quality good, average yield twenty-five bushels per acre. Some late rye not yet out, quality good. Oats harvest will begin about July I, acreage large, berry plump, estimated yield about sixty bushels per acre. Nearly all the stubble ground being listed in corn as fast as cut; a heavy rain on the 20th which will bring it up. Spring wheat is filling well. Scarcely any sorghum is planted for moiasses but a large acreage sown for fodder.

Stanton.—Wheat is good, but very short in some parts of the county. Rye is good, while oats are good in some localities and very poor in others. Early-planted corn in fine condition, late planting is not so good. Cane, Kaffir and rice corn is in very good condition.

Stevens.—Wheat partly harvested, straw is short, will run from eight to twenty bushels per acre; late wheat is best. Oats good on third-year breaking, short on second breaking. Corn, cane, Kaffir corn, rice corn and millo maize looking extra well; some had to replant, but there is a good st

some sorghum and millet sown on wheat stubble. Weather cool with some showers.

Wabaunsee.—Wheat is in the stack in good condition. Oats are being cut, and are yielding, like wheat, enormously. Corn is making up for lost time, and is now about as far advanced as is common at this date. Some wheat stubble is being planted to fodder corn with the lister, and some to navy beans.

Wallace.—The wheat crop of Wallace county has proved a success, averaging twenty bushels per acre. Corn is in fine condition. A large acreage of sorghum for feeding purposes. Kaffir corn is not extensively planted but is well adapted to the soil and climate. Broomcorn is being planted quite extensively with good prospect.

Washington.—Wheat is a good crop, quality excellent. Oats a good crop, the late oats will be the heaviest. The outlook for corn is good, where it has been well cultivated the condition would be about 95. Hay erop extra good. Sorghum, alfalfa and alsike clover have proven very successful this year, as also timothy and red and white clover.

WILLISTON, FLORIDA, September 7, 1886. MESSRS. A. T. SHALLENBERGER & Co., Roch ester, Pa.-Gents:-I have tried the bottle of Pills, for Malaria, sent me, with the most wonderful results; one dose cured a case of two months standing. Please send me one dozen by mail, immediately, with some advertising matter. Very truly, J. P. EPPERSON, Dealer in General Merchandise.

A gray beard on a man under 50 makes him look older than he is. The best dye to color brown or black is Buckingham's Dye for the Whiskers.

Patents.

Higdon & Higdon, Patents.

Fig. 1. Patents.

Higdon & Higdon, Patent Lawyers, solicitors for American and foreign patents, office rooms 55 and 56 Hall Building, Kansas City, Mo., and room 29 St. Cloud Building, opposite United States Patent Office, Washington, D. C., report the following inventions patented for week ending June 25, 1889. [By applying to them at either office a printed copy of any patent here named can be obtained for 25 cents. Send for book of instructions, free of charge]:

Safety-pin-Edward McConnell, Cape Girar-

Safety-pin—Edward McConnell, Cape Gracdeau.
Smoke-preventer for furnaces—Samuel E.
Flint, \$t. Louis.
Dry ore concentrator—Gustav T. Chaudefosse, St. Louis.
Latch—Richard H. Barber, Rich Hill.
Chair rocker—Cornelia M. Jacoby, St. Louis.
Running-gear for vehicles—Sheets & Walker,
Holden.

Hair dye and tonic-Edward A. Vogt, Friedheim.
Cavriage - jack — Arthur Zimmerman, St.
Louis.
Nose-ring for cattle—Edmund K. Rea, Cog-

Split chuck for watch-maker's lathe — Frederick Lautermilch, Kirkwood.
Cider mill and press—Joseph G. Harris, Sedalia.
Combined water cooler and filter. Lowis W. Combined water-cooler and filter—Lewis W. Mozingo, Kansas City.

KANSAS. Implement for dehorning cattle — Jerome W. Fugate, Lawrence.
Seeding attachment for plows — William D. Lindsley, Huntsville.
Copy-holder—Frederick G. Winnek, Leavenworth.
Flour-bin—Elijah P. Ellis, Oak Hill.
Churn-dasher—Ira A. Sabin, Kalvesta.

NEBRASKA. Washing machine-Hans Netzell, Stroms

burg. Hame staple and clip—John L. Ream, Greeley Center.

If you are interested in a business education, that will be worth a fortune to you if taken, write to me, mentioning this paper, and I will send you by mail an elegant illustrated catalogue and beautiful specimens of penmanship, free. Address D. L. MUSSELMAN, Principal, Gem City Business College, Quincy, Illinois.

THE MARKETS.

(JULY 8.)

New York 8: Ohicago St. Louis Kansas City.		
81%@81% 83%@84 84 77%	Wheat.	GRAIN
8 4214@4214 3514 8114@32 28 @334	Corn.	N.
3 40@4 25 3 10@4 20 2 10@3 85	Cattle.	1
4 2004 45 4 2004 40 4 1204 30	Hogs.	LIVE STOCK.
3 75@4 90 3 25@4 75 3 26@4 75	Sheep.	•

NEW ADVERTISEMENTS

Ames Plow Co	Ensilage Cutter.
Caughey, John W	Fine Designing.
Densmore Bros	Sugar Machinery Aw'rds
Dever, D. L	Farms for trade.
Rvert, H. A	Harness.
Graham, H. W	Farm for sale.
Hankins, R. Q	Form for sale.
McIlravy, E. L	Business College.
Miller, Wm. J	Sale of horses and cattle.
Perky, H. D., Pres't	New Era Exposition.
Perry, D. D	For sale.
Peabody M'f'g. Co	Windmills.
Rumsey Bros	Farms and stock.
Sproat & Son	Stray horse.
Stanton, H. H	Thresher for sale.
	Anglo-Kansan Land In-
Smith, C. R., Sec'y }	vestment Co.
Waterbury & Co	Recipes.
Whittier, Dr. James	
Wilson, Sam'l	Seed Wheat.
Young, Jas. G	Patents.
1,33	

Choice Heifers and Bulls

For sale—A number of thoroughbred Short-horn helfers already bred, also a few choice bulls, on terms to suit purchasers. Address T. P. Babst, Dover, Kas.

J. CHILD,

NO. 209 MARKET STREET,

ST. LOUIS MO.

Pays particular and personal attention to the handling of

WOOL

Consignments solicited and highest market prices given. Prompt remittances made. Cir-culars, market reports and sacks furnished free. Twine, shears, rock salt and sheep dip supplied.

H. GIVEN HAGEY, FOUNT P. HAGEY, FOREST HAGEY, BEN M. HAGEY, THOS. J. HAGEY, LEWIS W. HAGEY.

HAGEY BROTHERS,

HAGEY & WILHELM,

WOOL

Commission Merchants,

220 N. Commercial St., ST. LOUIS, MO.

General Agents for Cooper's Sheep Dip. References:—Boatmen's Bank, Dunn's Mer-antile Agency, Bradstreet's Mercantile Agency. Full returns guaranteed inside of six ays.

Western Wool Commission

ST. LOUIS, MO.

Consignments of Wool Solicited. Cash returns made within six days after receipt of wool. Liberal Advances made on Consignments.

References: Dun's and Bradstreet's Agencies and Local Banks. Send for Circular and Price Current

W. B. WILHELM & CO., Commission Merchants.

All goods sold on day of arrival, unless otherwise instructed. Account sales and checks mailed promptly.

Wool Hides, fuics, sheep pelts, etc. CONSIGNMENTS SOLICITED.

W. B. WILHELM & CO., Brown Wilhelm, Wool Commiss'n Merchants.

References: -Boatmen's Saving Bank, Dunn's Mercantile Agency, Bradstreet's Mercantile Agency,

PUBLIC SALE!

PERCHERONS AND SHORT-HORNS I will offer at public sale, at my farm, near Belleville, Illinois, TUESDAY, JULY 30, 1889, twenty-five head of pure-bred and high-grade Percheron Horses, Marcs, Fillies and Young Stallions, and thirty-five Cruickshank and Cruickshank-topped Short-horns. All the stock is well bred, good color, and of desirable ages.

TERMS:—A credit of twelve months or a discount of 5 per cent. for cash.

Catalogue now ready.

WM. J. MILLER, Belleville, St. Clair Co., Illinois.

IT CAN BE DONE! Butter and Cheese Factories

avis & Rankin

Sixty days' notice. Work completed and in operation before a dollar is asked. Experienced men furnished with each factory to operate all machinery.

OVER 2,000 NOW IN OPERATION.

Cost of complete factories range from \$2,000 to \$8,000, according to the style of builds and grade of machinery. Controllers of new patent machineries. Also, old styles at a ry low price. 240 to 254 WEST LAKE ST., CHICAGO, ILL.

THE STRAY LIST.

HOW TO POST A STRAY.

THE PRES, FINES AND PENALTIES FOR NOT POSTING.

POSTING.

BY AN ACT of the Legislature, approved February, 27, 1886, section i, when the appraised value of a stray or strays exceeds tea dollars, the County Clerk is required, withis ten days after receiving a certified description and appraisement, to forward by mail notice containing complete description of said strays, the day on which they were taken up, their appraised value, and the name and residence of the taker-up, to the Kansas Farker, together with the aum of fifty cents for each animal centained in said notice.

And such notice shall be published in the Farker in three successive issues of the paper. It is made the duty of the proprietors of the Kansas Farker to send the paper, free of cost, to every County Clerk in the State, to be kept on file in his office for the imspection of all persons interested in strays. A penalty of from 5.00 to 80.00 is affect to any failure of a Justice of the Peace, a County Clerk, or the proprietors of the Farker for a violation of this law.

Brokes asimals can be taken up at any time in the

year.
Unbroken animals can only be taken up between the first day of November and the first day of April, except when found in the lawful enclosure of the taker-up.
No persons, except citizens and householders, can

kker-up.

No persons, except citizens and householders, can take up a stray.

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

Any person taking up an estray, must immediately advertise the same by posting three written notices: in as many places in the township giving a correct description of each stray, and he must at the same time deliver a copy of said notice to the County Clerk of his county, who shall post the same on a bill-board in his office thirty days.

If such stray is not proven up at the expiration of ten days, the taker-up shall go before any Justice of the Peace of the township, and file an afflavit stating that such stray was taken up on his premises, that he has advertised it for ten days, that the marks and brands have not been altered; also he shall give a full description of the same and its cash value. He shall also give a bond te the State of double the value of such stray.

The Justice of the Peace shall within twenty days

such stray.

The Justice of the Peace shall within twenty days from the time such stray was taken up (ten days after posting) make out and return to the County Clerk, a certified copy of the description and value of such

If such stray shall be valued at more than ten dollars, it shall be advertised in the KANSAS FARMER in three successive numbers.

The owner of any stray may, within twelve months from the time of taking up, prove the same by cvidence before any Justice of the Peace of the caunty, having first notified the taker-up of the time whore, and the Justice before whom proof will be offered. The stray shall be delivered to the owner, on the order of the Justice, and upon the payment of all charges and costs.

of the Justice, and upon the payment of all charges and costs.

If the owner of a stray falls to prove ownership within twelve months after the time of taking, a coincide title shall vest in the taker-up.

At the end of a year after a stray is taken up, the Justice of the Peace shall issue a summons to three householders to appear and appraise such stray, aummons to be served by the taker-up; said appraisers, or two of them shall in all respects describe and truly value said stray, and make a sworn return of the same to the Justice.

They shall also determine the cost of keeping, and the benefits the taker-up may have had, and report the same on their appraiseme t.

In all cases where the title vests in the taker-up, he shall pay into the County Treasury, deducting all costs of taking up, posting and taking care of the stray, one-half of the remainder of the value of such stray.

stray.

Any person who shall sell or dispose of a stray, or take the same out of the State before the title shall have vested in him, shall be guilty of a millemeanor and shall forfeit double the value of such stray and be subject to a fine of twenty dollars.

FOR WEEK ENDING JUNE 27, 1889.

Chautauqua county— W. F. Wade, clerk.

Chemicauqua county— W. F. Wade, clerk.

PONY—Taken up by Geo. Stephens, in Lafayette tp., May 25, 1889, one Texas pony, 8 or 9 years old, 14 hands high, circle on left jaw, letter 8 on left hip and 22 on left thigh; valued at \$30.

PONY—By same, one Texas pony, 13½ hands high, shod all around, branded M on right shoulder, 10 or 11 years old; valued at \$20.

HORSE—Taken up by E. J. Breeze, in Harrison tp., May 30, 1889, one dark sorrel borse, 14 hands high, 9 years old, both kind feet white up to pastern joint; valued at \$25.

Chemicae county—I. C. Attingeny, clerk

Cherokee county-J. C. Atkinson, clerk.

Unerokee county—J. U. Atkinson, clerk.

PONY—Taken up by C. L. Hall, in Pleasant View
tp., P. O. Opolis, one bay mare pony, about 14 years
old, Texas brand on left hip; valued at \$20.

MORSE—By same, one brown horse, about 15 years
old, shod in front; valued at \$20.

PONY—By same, one black horse pony, about 9
years old, Texas brand on left thigh, had on web halter; valued at \$20.

FILLEY—Taken up by R. P. Hall, in Pleasant View
t2., P. O. Opolis, one black filly, about 2 years old.

Allen county—D. W. Doffer clark.

Allen county—R. W. Duffy, clerk.

MARE—Taben up by G. W. Squire, in Humboldt
tp., June 3, 1889, one hay mare peops, 5 years old, 14
hands high, star in forehead, four white feet.

Linn county—Thomas D. Cottle, clerk.

2 Herses—Taken up by E. H. Loyd, in Potosi tp.,
P. O. Pleasanton, two horses, one bay and one brown.
8 and 12 years old. 5 feet 4 inches high, bay has star
in forehead and left hind foot white, brown has no
marks or brands; valued at \$50 each.

Johnson county—W. M. Adams, clerk.
PONY—Taken up by T. C. Porter, in Shawnee tp..
P.O. Shawnee, June S. 1889, one clay-bank horse pony,
14½ hands high, brand on left shoulder similar to µ,
on left hip B, on right fore leg similar to V, and
on right hip H, black mane and tail, stringhalt in left
hind leg; valued at \$20.

FOR WEEK ENDING JULY 3, 1889.

Pawnee county—James F. Whitney, clerk.

MARE—Takes up by Mathew Wilson, in Keysville
tp., June 3, 1859, one bay mare, beth hind feet white,
star in forchead; valued at \$30.

Chase county-J. S. Stanley, clerk. MARE—Taken up by W. W. Kurtz, in Diamend Creek tp., P O. Clements, June 5, 1889, one sorrel mare, 6 years old, no marks or brands; valued at \$50. Johnson county-W. M. Adams, clerk.

MULE—Taken up by Geo. W. Davison, in Monti-cello tp., P. O. Holliday, one dark pay mare mule, 14½ hands high, 4 years old, stripe across the shoulders and part way along the back.

Crawford county—J. C. Gove, clerk.
PONY—Taken up by J. W. Towery, P. O. McCune,
June 18, 1889, one brown mare pony, white face,
branded E on left shoulder; valued at \$35.
STEER—Taken up by W. H. Richardson, P. O.
Girard, April 25, 1889, one red steer, 1 year old; valned at \$9.

ued at 49.
STEER—By same, one red steer, 1 year old, white on head, feet and belly; valued at 46.

FOR WEEK ENDING JULY 10, 1889.

Johnson county—W. M. Adams, clerk. HORSE—Taken up by John Marty, in Shawnee tp., P. O. Glenn, one gray horse, 15% hands high, weight 1,050 pounds, all four feet white, tall light celor, fore-head light, 7 years old, no marks or brands; valued

HORSE—By same, one gray horse, 15 hands high,

weight 1.050 pounds, scar on left hip near the rump, about six inches long, all his legs dark color; valued at \$60.

Shawnee county-D. N. Burdge, clerk. COLT—Taken up by W. H. Oswalt, in Mission tp., June 24, 1889, one bay mare colt, I year old, left hind foot white, white on right foot, white spot in face; valued at \$20.

Geary county-P. V. Trovinger, clerk.

STEER—Taken up by Conrad Schmidt, in Junctien City, June 4, 1889, one red steer, 2 years old, white spots on be ly and right flank; valued at \$12. HEIFER—By same, one red and white heifer, 2 years old; valued at \$12. HEIFER—By same, one black and white heifer, 2 years old, right horn broken off; all three branded R on right hip; valued at \$12.

on right hip; valued at \$12.

Leavenworth county—J. W. Niehaus, clerk.

2 MARES—Taken up by Thos. Mussett, in Kickapoo tp., (Missouri river bridge), May 18, 1889, two
mares, one 15 hands high and the other 12; one bay,
small white spots on one side, 4 years old, and the
other black, white face, one hind foot white, 3 years
old: one branded 5.B on left shoulder, injured in fetlock joints; one valued at \$35, other \$20.

Notice to County Clerks!

We will regard it a personal favor if each County Clerk will mail us, at the first opportunity, a complete list of breeders (with their postoffice addresses) of thoroughbred horses, cattle, swine, sheep and poultry; also the name and location of every creamery and manufactory in his county. When we have a complete list we will favor you with the directory for the State.

KANSAS FARMER CO.,
Topeka, Kas.

HENRY W. ROBY, M. D., C. F. MENNINGER, M. D.

Surgeons.

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519 KANSAS AVENUE,

TOPEKA, - - - KANSAS.

Special attention given to General Orthepedic and Gynecological Surgery.

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Six to twelve months loans at current rates. Approved stock sale notes bought. Correspondence solicited.

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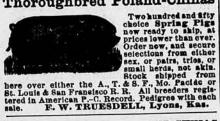
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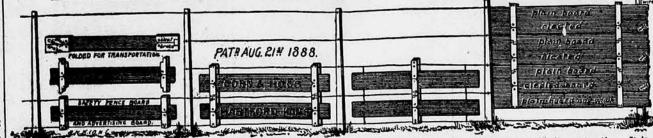


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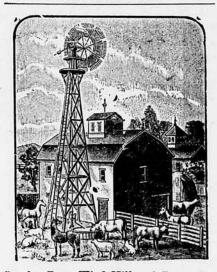
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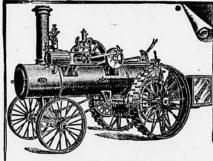


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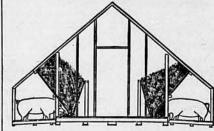
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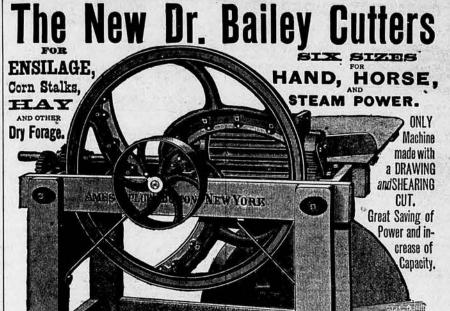
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