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## KANSAS FARMMR

Here, again, the Kaffir corn fell much behind the corn when with a ed alone, but when mixed like soja highly nutritious substance, like soja bean meal, the growth obtained was but slightly behind that of a similar mixture with corn as a case the pigs be stated that in this case the former were even smaller than only sixty-three trial. They averaged only sixty-three pounds each

## xperiment.

The same station has also made an xperiment with Kaffir corn as feed for cattle. Three pure-bred AberdeenAngus helfers, which were to be fed for the butcher, were tied up in meal stable and fea, one on two on corn and cut corn meal and cut corn stovll from the fact of both lots were sum, that they were almost fat when of
During the first six week 15.46 pounds live weight was gand 1.65 pounds corn Kaffir corn meai and 1. the more valua
ir-dry material.

| In fresh or air-dry material. |  |  |  |  |  | Authority. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Water. | Ash. | Protein. | Fiber. | Nitrogenfree extract. | FFat. |  |
| $\left\|\begin{array}{c} \hline \text { Per cent. } \\ 76.13 \\ 76.05 \end{array}\right\| P$ | $\begin{array}{cc} \hline \text { Per cent. } \\ 1.75 \\ 1.44 \end{array}$ | Per cent. 3.22 2.34 | Per cent. 6.16 8.30 | $\begin{gathered} \hline \text { Per cent. } \\ 11.96 \\ 11.11 \end{gathered}$ |  <br> Per <br> 0.78 <br> 0.40 <br> 0.40 | Pennsylvania station. nell station. |
| 76.09 | 1.60 | 2.78 | 7.26 | 11.69 | 0.59 |  |
| 79.30 | 1.20 | 1.80 | 5.00 | 12.20 | 0.50 | North Carolina station. |
| 10.94 | 5.48 | 3.31 | 30.37 | 47.40 | 2.50 |  |
| *11.00 | 4.16 | 6.93 | 22.02 | 53.43 | 2.46 |  |
| 8.67 | 7.14 | 4.89 | 28.02 | 49.75 | 1.53 | Kansas station. |
| 8.00 +9.00 | 5.20 | 5.81 | 30.12 | 48.19 | 1,68 |  |
| 16.23 | 2.02 | 6.92 | 6.79 | 65.18 | 2.86 | North Carolina station. |
| 15.10 | 1.50 | 8.50 | 6.60 | 64.80 | 3.50 |  |
| 9.31 10.90 | $\begin{aligned} & 1.53 \\ & 1.50 \end{aligned}$ | $\begin{array}{r} 9.92 \\ 10.50 \end{array}$ | $\begin{aligned} & 1.35 \\ & 2.10 \end{aligned}$ | $\begin{aligned} & 74.92 \\ & 69.60 \end{aligned}$ | $\begin{gathered} 2.97 \\ 5.40 \end{gathered}$ | North Carolin station. |
| 16.75 | 2.18 | 6.62 | 1.16 | 69.47 | 3.82 |  |
| 15.00 | 1.40 | 9.20 | 1.90 | 68.70 | 3.80 |  |

## Assumed: Field-cured corn fodader continns on an averaze 49.9 per cent. of water:

PRACTICAL FEEDING TESTS.
The feeding value of Kaffir corn has not been fully worked out. So far as the writer is aware, the Kansas station is the only one which has as yet undertaken feeding experiments with this crop, and these have been con. The to the grain of therized below.
Durits are summinter of 1894-95 three During the winter of 1894-95 three lots of hogs, which averaged about 150 beginning of the expered (1) Kaffir corn pounds a head, were led (1) (3) ground meal, (2) corn meal, and compare the wheat, with a the feeds. [Kansas value of these 53 .] All feeds were Station Bulletin 53.] All feeds make a stirred in enough water to continued thick slop. The experiment contind for seventy-seven days. At had eaten that time the Kaffir corn an average of 545 pounds per head This gained 100 poundion of 5.15 pounds of means a consumption of of pork made feed for each pound of pork made. The corn meal lot had eaten 573 pounds of feed per head, on which each it had made a gain of 131 pounds; or, it hace a taken 4.38 pounds of feed to produce pound of gain. The ground wheat head had eaten 564 pounds of feed per hea and gained 137 pounds, which is equal to a consumption of 4.11 pound In other for each pound of gain. In other words, 100 pounds of corn produced as much gain as 117.64 pounds of Kaffir corn. This is not
for the Kaffir corn.
This station has just closed another experiment in the same line, with the following results: Four lots of three pigs each were fed for the same period as above, seventy-seven days, on Kaffir corn meal, (2) a mixture of onethird soja bean meal and two-thirds Kaffir corn meal, (3) corn meal, and (4) and two-thirds corn meal, with gain and shown in the following table:
odder for the heifer fed this ration and 1 pound of gain was made on 18.4 pounds of corn meal and 2.4 pounds of corn fodder, this being the average of the two in the corn meal lot. Here the Kaffir corn made decidedly the best gain. It was apparent, however, that they could not be fattened satisfac torily on these rations. The corn fod der was, therefore, changed to alfalfa, and oil meal was added to the grain ration in the same proportion for both lots, and with this change the experiment went on for six weeks longer. The results for the whole period of twelve weeks stand as follows: The heifer on Kaffir corn had eaten during this time 11 pounds of Kaffir corn meal, 0.54 pound of oil meal, 0.68 pound of corn fodaer, and 1.21 pounds of alfalfa for each pound of gain she made, or a total of 13.43 pounds of food for each pound of gain. The average amount eaten by the two on corn meal ration for each pound of gain was 9.77 pounds of corn meal, 0.63 pound of oil meal, 0.65 pound of corn fodder, and 1.26 pounds of alfalfa, a total of 12.3 pounds of food for a pound of gain. It should be noticed that this lot ate 0.00 pound of oil meal and 0.05 pound of al alfa for each pound of gain more than the Kaffir corn lot. The total amount of Kaffir corn meal eaten was $1,199.28$ pounds. The gain was 109 pounds. The average amountol counds, the averper head was $1,422.35$ pounds,
age gain being 145.5 pounds.
for horses and mules, Capt. H. L. Scott, of Fort Sill, writes under date of March 17, 1896, that two six-mule teams (one young mules and the other old) used continually for freighting on the road, and twelve horses, six in each of two cavairy troops, were fite exclusively on black-hulled white
Kaffir corn and hay, for one month with Gains by hoas fed kaffir corn, i aAins by hoas fed kaffir corn, in conen with other foods.

Gain of lot, seventy-seven days.
Daily gann per pis.

$\square$



## Lot 4 comn meal and goja bean meal and soja bean. meal.

 oma report that they have grown and ted Kaffir corn with gratifying success ver experiments thus statement some imes made that the grain is equal to corn as a food. It should be ground before it is fed. For hogs it is best to make the meal into a slop, but it should be fed dry to horses and cattle. The fodder'has not yet been experimentally studied, but cattle, horses and sheep
on it.
The grain has been recommended as an article of human food and several mills in Kansas have put in special machinery for grinding it. Those who have tried the flour assert that good bread and excellent cakes can be made from it. The analysis in the table in dicates that this product is similar to corn meal in composition but is some what deficient in protein.

## Ingalls on Blue Grass.

Hon. John J. Ingalls' poetic tribute to blue grass-now one of the most celebrated passages in our agricultural literature-first appeared in a com munication written a great many The oft-quoted paragraphs are as follows:
oft-quext in importance to the divine profusion of water, light and air, those profusion physical facts which render existence possible, may be reckoned the universal beneficence of grass. and dandelions of May, scarcely higher in intelligence than those minute tenants of that mimic wilderness, our earliest, recollections are of grass, and when the fitful fever is ended, and the coolish wrangle of the market and the forum is closed, grass heals the bosom scar the earth has made, and the carpet of the infant becomes the blanket of the dead.
"Grass is the forgiveness of naturepled with battle, saturated with blood, pled with bathe, ruts of cannon, grow torn with in with grass and carnage is forgotten. Streets abandoned by traffic orgotton. Sirsets aban, like rural lanes, become grass-grown, are obliterated. Forests decay and are obrish, flowers vanish, but harvests permb, Beleaguered by the sullen hosts of winter it withdraws into the impregnable fortress of its nub emerges subterranear upon the solinds by wandering birds, by the winds, by subtle horticulture propagated by the elements which are its ministers nd elvents it softens the rude outand servants, it sorld. It evades the solines of the inaccessible nop of mountains, and lopes and pl history, character and desmodies nions Unobtrusive and painy of natioas. immortal vigor and tent arom the thoraggression. Baild it bides its time to oughfare and field it bides is relaxed return, and was perished it silently or the a esumes the the which it never abdibeen expelled wo blazonry of bloom cates. It bears with fragrance or ocharm but its homely hue is more plendor, but its the lily or the rose onchanting than in earth or air, ye should its harvest fail for a single year famine would depopulate the world."

## Outting a Heavy Hedge.

Editor Kansas Farmer. - When cutting a hedge for me, recently, Mr. Fouts, a hedger, used a method which I think worth giving to your resders. The hedge was about ten years old and had never been cut before. His method is to fasten the end of a one and one fourth inch rope, sixty to one hundred feet long, to a hedge bush, say fifty to eighty-five feet from the end of the hedge, then pass it down side and around end of hedge, hitch a quiet team to it, letting them pull on the side opposite and at such angle as found desirable. It should pass around end bush at about half its height. As the team pulls and bends bushes they are easily cut with an axe, and the fine brush is kept out of the way by the rope, while the cut bushes roll up like a large sheaf, making a pile nearly are too small to burn drag two or three

## Well Satisfied with Ayer's Hair Vigor. <br> Nearly forty years ago, after

 some weeks of sickness, my hair turned gray. I began using Ayer's Hair Vigor, and was so well satis fied with the results that I have never tried any other kind of dressing. It requires onlyan occasional applition of

## AYER'S

Hair Vigor to keep my hair of good color, to remove dandruff, to heal tching humors, and prevent hesi hair from falling out. I never hesies tomy friends."-Mrs. H. M. Haigirt,

## Avoca, Nebr. <br> AYER'S Hair Vigor

Take Ayer's Sarsaparilia for the Complay
together with the team. They will be found to be compact and in good shape for burning.
The common method is to brush one side so as to get up to hedge to cut then after cutting the brush must be piled, so that the above plan is much speedier. James Shearer.

## Sorghum for Oattle.

In the report of the agricultura In onver in Bulletin 18 of the all, just iss station at Tucson, Prof gulley says: "In cropping we should not follow sorghum with grain. Alfalfa takes more from the ground than sorghum but leaves the ground in better condition. Sorghum absorbs all the food material immediately available. The rotation might be alfalfa, grain, sorghum, then alfalfa. There grain, sorghum, ghum, both sweet and non-saccharine. The sweet variety seems to be preferred by stock. The seed has practiferred by stock. composition as wheat, cally the same composit as much seed and one can grow about as me may be per acre as he can corn. Somatimes sown broadcast or in drills. Sometimes in the stalks are too larg stem becomes drills, but are fond of and will chew dry cattle are lond or the sugar it conall up, probably leaves until after taln, rese the stalk
"Harvesting machinery is made Harvesting cost of harvestwhich will reduce the when shocked agg orn does. If it costs it will not sour as corn does. cattle may be to time each day.
A healthy appetite, with perfect digestion and assimilation, may be secured by the use of Ayer's Pills. They cleanse and strengthen the whole alimentary canal and remove all obstructions to the tions of
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## THE FARM HORSE.

"There is a well-known difference of opinion as to the size of the horse needed on the farm, says D. A. Kent, in Rurral Life. "Different localities smaller horses, according to custom.
"The ancient horse was a small horse, but he was used for purposes other than agricultural. The ox treaded out the corn and pumped the water; but as the system of agriculture developed with all its development of machinery, the horse superseded the ox, and it was found that a heavier one was needed. But the farmer has no need for the heavy cart horse that is used by the large breweries in transporting their products and in advertising their business. Fancy has had a little to do with the great elephantine specimen of horses that are em ployed in our large cities. This fancy sometimes runs to color, when size can be easily sacrificed to gratifying the whim of color. There are limits to the size of the farmer's horse which mark the lines of value for general farm work. If the horse is so light that his weight will not steady the heavier farm implements, then he lags with his load. If he is so heavy that his own weight is burdensome under the heat of the sun, lagging also fol lows in full performance of labor. The maximum or minlmum weight depends upon form and constitution, consider ing individuals. There are many cases in which a 1,600 -pound horse canno perform as much labor as one weighing 1,200 . There are many 1,200 -pound horses that will stand a longer drive than one weighing 950.
"Within certain limits a proposition may be given, that the same weight of horse-flesh requires the same amount of food for support and will perform the same labor. That is to say, one horse weighing 1,800 pounds will draw as heavy load and require as much feed as two horses weighing 900 each; or two horses weighing 3,600 will perform the same labor and consume the same feed that would be realized in the case of three horses whose aggregate weight was 3,600 .
"But, taking the all-around affairs of the farm, a horse weighing 1,800 pounds is too cumbersome. His weight is useless in plowing corn, pulling the mowing machine or hay rake. It is also useless in drawing a load of hay or grain to the stack-yard or in drawing the load at husking time. The plow, harrow and reaper, each are
geared for three or four horses; but the aggregate weight of three or four horses whose individual weight is 1,800 pounds is superfluous in the draft of a three-horse plow or harrow.
"I am using twenty head of work horses this season whose individual weights range from 900 to 1,600 . I find that three horses weighing 900 each than two horses weighing 1,600 pounds each, and that they will consume less feed. This does not verify the above proposition and I think that the variance will hold in the case of animals at heavy work while the proposition will hold in the case of light work.
"The horses whose weight ranges from 1,200 to 1,600 are the horses for the Iowa farms, and if we could get these weights from progeny that trace back to the desert horse instead of to the ideal horse. The Percheron excels all the European large horses because he has more work blood in him. The ancient horse is hardier than the modern horse because of his environments and because of the severity in his selection for time immemorial. Modern civilization would hardly tolerate the crucial tests that many tribes applied
in the selection of horses. The American mind is waking up in the conter-
plation of a better horse and by and by animal. If some of our rich forlows could find pleasure in this direction instead of spending their money on English widows, their existence would be tolerable. Or, if some of our experiment stations would devote some of their skill and money to this work instead of 'fiddling' around with little patches and-weed spots, much real progress could be made. The difficuity is, that those who can won't for the lack of taste, and those wh

## Mule-Raising in the West.

Mr. W. L. Dilelow, Cedar Rapids, Iowa, in a recent Farm, Stock and Home, ssys: "The present outlook for mule-raising appears very cheerful. Many farmers of this section have been seriously debating the question of raising mules as a means of continuing the income from the many mares they have on hand, and which they are unable to dispose of. Horse-raining is no longer profitable. Good, fair mules, 3 years old, are selling readily at from 81
"There are six Southern States which have been largely vacated and almost unthought of since the war, that have for the past two years been rapidly increasing in population from the immense immigration which has been, and is, pouring into the South rom the Central, Western and New England States, and which is causing a growing demand for mules, which demand is sure to continue for years to come. Horses are of but little use in these States, owing to he intense hea during the summer months, conse quently mules are a necessity there. Missouri and Kentucky, the grea mule-growing States, began to discontinue this business six years ago, be cause mules were at that time low, and
saddle, trotting and thoroughbred saddle, trotting and thoroughbred horse raising was much more profit able. Now they have not the mares produce mules from, and their capital and attention is engaged in other busi-
"These States are hardly raisin mules enough for their own use. With this state of affairs existing, and with the farmers here being so overstocked with good mares perfectly suited to mule-breeding, they have only to get a lew good jacks to be in position to reap the same or even greater income as
when horses were commanding $\$ 150$ to when hors
$\$ 200$ each.
"In raising horses only about one in ive arrives to the age required for market, sound and free from wire marks, and having individual merit to command a good, remunerative price, while with mules it is very different. They grow up more nearly alike, never become unsound or wire-marked, are ready to market at 3 years old, unbroken, two years earlier than a horse. They are all marketable at about the same price, and even if horses were now selling the same as mules, there would be $\$ 2$ in raising mules to $\$ 1$ in raising horses, and at present price it is about six to one in favor of mules. "What ruined the horse-raising business was the millions of horses that were raised on the Western ranges. It seems as if they have been shipped into nearly every country in the States, you find branded horses everywhere. These horses are raised by turning not be done with isange, which canmules can only be raised from domestic mares. With only three or four States to raise mules the business cannot be overdone. The Northwest ought to being regions, for it has the finest and best bred mares for this purpose."

## Recent Horse Sales.

Recent dispatches from Oswego, Kas., state that within the past few have shipped south 1,760 horses and mules. Joseph Levi, of Galveston, has also bought and shipped several carloads from Oswego, while Erwin, Grant $\&$ Co. have shipped from Humboldt April 1 1806, September 1, 1895, and and mules, or over $\$ 200,000$ worth; in these shipments were several car-loads
of small mules for Central America, horses that teams of matched carriage per span, for the same country.

## Proper Age for Mating Swine.

 A breeder, at the third annual meeting of the Missouri Swine Breeders' Association, had the following to say in reference to the above subject:"The proper age to mate and breed bomething that is never thought of by a great many farmers, and they are that class who produce the hogs. great many never know when their
pigs mate or when to expect their pigs. pigs mate or when to expect their pigs.
They just simply let the pigs and They just simply let the pigs and shoats, as they call them, male and emale, run together until they are the boys and dogs and run them all into the barnyard or some lot and knife all the young males except a choice looking fellow that they say they wil let run for a boar, and often he is hardly fit for the feed lot, and in fact they had just as well have made a bar
row of him, for the breeding has al row of him, for the breeding has al ready been done. I know men who do not live more than five miles from this town that follow the above rule, and they raise a great many things they call hogs. Some of them count their acres by the thousands and own bank tocks and bonds, and you had just a well try to climb that wall without adder as to sell them a pig for $\$ 10$ You can't do it.
"I think it is pretty well settled mong all good breeders that breeding too early always stunts the growth and
prevents proper development of the prevents proper development of the
"Another fact too often overlooked is that early breeding, before the anima is well matured, is such a drain upon the system as to tend to materiall lessen the vitality of the animal, so a to make them appear rough and slug gish, and they seldom, if ever, recover think generally a boar should be a least six months old, and eight is better, before permitting any service at and care steady and continued growth from birth.
"An animal that has made a slow growth and development will make a quiet and rereding animal, if kep bout eight or nind months old, than if used younger, and even then good care must be taken for at least three or four months not to permit too often plan much service. It think the bes always keeping the boar in a good roomy grass lot, at least during service or breeding season; turning the sows in with him and then separating as soon as the service is complete; never allowing more than three or four, at used in this way after he is seven or eight months old without any material injury.

Now, as to the sows, I think it al most an exceptional case when it will do to breed a young sow to farrow bethen when she is to farrow in the spring, say about May, after the grass is good. If she is to farrow in the fall of the year I think she should be fifteen months old at farrowing. If she has been fed so as to make a good, vigorous, thrifty growth, and is in good condition, she may be bred to farrow at dwelve months old, if in the spring, twelve months old, if
about May, and do well.
"It is often the case that when pigs have been bought at long prices for breeding animals the purchaser. is as soon as possible, by too early breed ing. But at the same time it cannot be considered as a wise plan or sanno idea, and not much economy to take the chances of ruining s fine individual or a good breeding a fine individual stunting the growth and development, simply to have the pigs come a month simply to have
"Always feed so as to keep both sire and dam in good, thrifty, vigorous condition when they are to be bred, and after the service is completed take the sow away to a quiet, secluded place Always wait until both sire and dam

## Moman's ork <br> Is never done, and it is especially wearing and

 Is never done, and it is especially wearing andwearisome to those whose blood is impure and unfit properly to tone, sustain and renew the wasting of nerve, muscle and tissue. The only remedy for tired, weak, nervous women is in building up by taking a good nerve tonic, blood purifier and vitalizer dilke Hood's Sarsaparilla For troubles Peouliar to Women at change of
season, climate or life, great cures are made by

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Sarsaparilla
The One True Blood Purifer. All druggists. \%1

are fairly well developed in every particular
"The proper plan is to breed for individual merit, and not for large num bers. If we had 50 per cent. less hog on the market to-day, and the quality 50 per cent. better, we would not have such a cry about low prices."

Are You One of those unhappy people suffering with weak nerves? Remember
that the nerves may be made strong by Hood's Sarsaparilla, which feeds them upon pure blood.
Hood's Pills are the best after-dinner pill;
25.
Kalamazoo, Mich., is famous for celery vertisement appears on page 15.

TOPEKA. JUNE 15.
 the great, clórious

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GREATEST IN EVERYTHING:


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res. 2 Great Stages, Great Aerial Triumphs, 300 Star Artists.
100 Great Acts. Greatest Parades United, At 10 a. m., JUNE 15.

Doors Open an Hour Karlier.
ADMISSION TO ALL, 50 OENTS. gildren Under 9 Years, Half Price. Branch Tlicket Office at Ro
Cor. sixth and Kansas Ave.
TOPEKA, JUNE 15. ONE DAY ONLY.

## Irrigation.

THE GREAT FLOODING SYSTEM OF THE SAN JOAQUNN VALLEY, OALIFORNIA.
By T. s. Van Dyke, n Irrigation Age.
The immense scale on which water is handled in the great central valley of California is worthy of a special study, because there is no other place in the United States, and probably not in the world, where water is so intelligently used in such vast quantities on so large an area. At the same time in all respects for the small farmer though for extensive work with plenty of water at command they are hard to improve upon.
Kern river, draining the lofty country south of Mount Whitney, rolls ou upon the great plains of Kern county over 2,000 cubic feet average flow for the dry season, or over 100,000 miner's Inches. This is generally much increased when the snow is melting, making the summer supply very large and reliable. This, with the winter flood-water, once made about a quarter of a million acres of shallow lake and swamp covered with reeds and tule and willow-bordered sloughs, exhaling all summer long a malaria almost as deadly as that of Panama. Bordering this on the east side of the valley were half a million acres of fine granite soil drifted in the course of ages from the hills and lying on a slope of about fifteen feet to the mile, though looking level as a floor. No finer soil for allaround purposes is to be found in America, but twenty years ago it was the most hopeless of all deserts, for the average rainfall was a trifle over four inches, the Coast Range on the west and the continuation of the lofty Sierra Nevada to a junction with the Coast Range on the sou
The same stroke that would turn the The same stroke that would turn the
waters of the river upon this arid land would reclaim all the swamp, which was the richest soil imaginable. But it was a job no State would undertake, and it was absurd to expect private and it was absurd to expect private capital to build canals in such a coun-
try and wait for settlers. The few try and wait for settlers. The fow jaundiced hog-and-hominy setiddling and fighting along the lived by fiddling and fighting along could river and claimed all river so as to take not even handie themselves.
Messrs. Haggin, Carr and Tevis had the desert land act passed, it is said, the desert land act passed, it is said, so that they could grab the deserve the thanks of California, for it has added a rich county that would otherwise have ralsed iltie but scenery, dust and malaria. They spent twelve millions of dollars in building canals of which there are now twenty-
seven. The diversion of the watar seven. The diversion of the watar
brought on the great riparian suit with miller \& Lux, who were very wealthy and were attempting to drain out the swamp below so as to take that under the swamp and overflowed land reclamation act. It is said that litigation cost each party nearly a million
dollars. The total cost to both parties dollars. The total cost to both parties The outcome was a compromise by which Buena Vista lake, a shallow lake covering over a township, was turned into a reservoir. By this the entire flood fow of the river is stopped, the canals taking all the ordinary flow. It now covers twenty-seven square
miles to an average depth of ten feet, making a store of water which hardly shows the great draught for Miller \& Lux's immense farms below. Thus
was added to the State more water was added to the State more water
than was then held by all its other than was then held by all its other
reservoirs combined. As I hunted reservoirs combined. As I hunted
ducks over these immense properties last winter I remarked to a friend that there were two sides to the monopoly question.
Miller \& Lux have under this water over one hundred thousand acres, mostly reclaimed swamp, of which over twenty thousand are now in a solid block of alfalfa. The Kern County Land Co., composed of Tevis, Haggin \& Co., have under the ditches on the dry side some four hundred thousand acres, with one patch of abou
five thousand acres of alfalfa.
The difference between The thousand acres difference between
The ala
claimed swamp and the land that was once desert must be kept in mind on gating hereafter mentioned. On the
reclaimed swamp, which is a black reclaimed swamp, which is a black
muck of tule roots running into peat in muck of tule roots running into peat in
many places, the level of the water below is from eight to ten feet. O most of the upland reclaimed by the ditches it is from sixty to almost as much more as you wish.
The method of preparing the land is the same in both cases. The slope is so nearly uniform that on the greate part there is no leveling. Where it it is terraced roughly with scrapers to very nearly a level, the shape and size of the terraces varying continually with the contour and dip of the land. No rule is followed except the uniform method of having one check enough below another to permit the rapid omptying of the upper one into the ower one if the water is to go there all. They vary from half or quarter of acre up to five acres or even more, and though they look like a set of plats running through all shapes, from the crescent to a square, they are really terraces.

LAYING OUT THE CHECKS.
On the land having a very even slope the checks are almost invariably made on contour lines laid out with an engineer's level. Starting at the upper side of the field the level is swept around and stakes set every few yards on a line about a foot below the instrument. If the slope is uniform the line of stakes will be a crescent and will vary from this in all manner of wavy curves, according to the change from a down to the line of stakes and another line of stakes set below that, care being taken not to leave ends or horns on the crescents in which the depth of water could be too slight. Rather than do this the shape is changed and a square or other figure thrown in between true contour lines.
As thus run, some of these check lines are nearly a mile long. The checks thus formed run from about twenty acres up to two hundred, with an average as near as I can judge, of about forty acres. Near Pozo, in Kern county, are several thousand acres laid out by the eye by a Chinaman who was
an experienced irrigator. I saw it under water and it was well enough done, so well done that I am certain that with a carpenter's level fitted with rille sights and a common tripod any one with sense enough to take the height of the instrument on a rod foot, and with enough arithmetic in his head to add or subtract the readings from the height of the instrument ould lay out any
The embankments made on these ines vary in height from fifteen inches 0 twenty or even twenty-four inches, he average being nearly eighteen for allow a foot of water behind it with no danger of its being breached by wind or defects. At the lowest point the water is often deeper than a foot and at the shallowest points much less, but the general aim is to have it everywhere as near a foot in depth as possible, though it by no means follows that hat amount of water
At the bottom these check lines are often as much as eighteen feet in width though twelve to fifteen feet parts. They are round upon the top with both sides on such a slope that any kind of machinery can be run over them and cut anything that grows pom and as well as if it were on the pon the alfalfa, grain, or whatever is in the field, is planted upon them the same in in the bottom of the check and 88 far is can be seen grows 88 and, as far as can bo seen, grows as checks is a large gate in the embankment large enough to discharge the water quickly into the next check beW. But in most cases the reliance is on cutting with a hoe. It is conceded by the superintendents that the gate
is much the better and in the long run probably more economical, though more expensive at first.
These embankments are made with a

POWER FROM QASOOLNE? YESS. Feber Gas \& Gasoline Engine Co., 459 southwest Boulevard, Kansas Citr, Mo.

buck scraper or a Fresno scraper and re too large to make with a common low in any case. With a movable mold-board about ten feet long a common plow may be used to make them if hey are not too large. But this makes heavy drag and for some of the largail. In place of the mold-board five or oil. In place of the boara ive or ix revilig or $r$ ten feet log, inchned accorang to braced frame of a Stockton gang-plow. braced frame of a slocklongang phe One of these was I saw four horses do the work of eight with it in throwing up a ridge, the whole difference being up a ridge, the whole difierence being the disce turning over instead of resisting. A slip scraper or any kind that large work economically. Even the machine above described must have broad wheel braces rolling against the face and botrom of the cut roll be needed at once. All this would be too expensive for a small farmer, but or flooding on a large scale it would pay any one to begin checking in that | pay |
| :--- |
| way. |
| It |

It must be remembered that there is plenty of water here and some things are done that might be inexpedient elsewhere. If you are sure to have the water to inl them checks high enough, provided your soil or crops will stand a considerable depth of water. But if you have not the water or have it in heads too
small then your high checking is useless expense. The depth of water you may put in a check will depend not only on the soil and the crop, but greatly on the length of time you hold the water in the check. This you should determine in advance by experiments on a small scale if your neigh bors' places will not show what it wil do. Under the hot sun of the San Joaquin summer, alfalfa will often
scald in less than three hours, and if scald in less than three hours, and if the irrigating water is very warm two hours are none too safe on some spots. Hence the water must be put in and let off quickly. But unless the soil is porous enough, too great a depth oaking ingtegd of hastening it, and i porous enough to be wet more quickly by greater depth of water then yo must have a considerable depth so as to leave water to run into the next check. For on this big scale laterals cost money and it is strict economy to make one check
pretty long series.
Checks thus made will last practically forever, the alfalfa or grain preventing their washing. They become in time as hard as any canal bank, and the only weak spot is the place where they are cut. This is purposely left overy time, which is considerable where they are of full strength.

TURNING IN THE WATER.
When all is ready to turn in the water, eight or ten men, armed with f about thirty cubic feet a second or 1,500 miner's inches is turned into the upper one. If a large one, there is conconsiderable waiting to do, but if a small one it is not long before it is time to cut the lower bank to let the water one cut is generally enough, but in a long one, two or three, and even four cuts, may be necessary to empty it fast enough. These cuts are quite large and let a great volume of water head of water and irrigate 200 acres a day with it on an average. Generally seven can do it, unless there are a grea Where they are very large two or three men can do it, and there are places where one can do it. There a single man on the line of bank between one of the old hymn-
"Lo, on a narrowneck of land,
"Twixt two unbounded seas I stand
"Lo, on a narrow neck of land,
Twixt two unbounded seas I stand."
tried to get a picture of one
these, but it is too large for a common camera to bring out well.
At the rate of one man a day to wenty acres this is very cheap flooding, and it can hardly be done on the to be followed by cultivation. For the only safe way to do that well is to make the checks small and have the water shallow in them. For handling these with a head of two cubic feet to ten acres, two and generally three men are necessary for very good work. A piece of land so flat that ten scres can be managed by one man on a small scale is not likely to be well enough drained to be good orchard land.
Sometimes enough water is at once let into the upper check to feed the whole line of which that is the first and sometimes more water is allowed to run through it to add to the first installment. This depends on what is in it and how it will stand the run of water; old alfalfa standing a good deal if there is no danger of scalding. The whole is so arranged that any surplus at the lower end has a waste ditch to receive it.
When these checks are emptied plenty of wet spots remain, with water an inch or two and often three or four inchies deep. These are depressions which it was not thought worth while to fill by leveling off the tract. Prob ably the results would not, for low grade crops, justify the expense where and is so plenty and water so cheap. But this will not do for the small armer to imitate, and the effects of it an be-quickly seen, even in winter when the sun is not hot enough to scald the plants or to bake the ground much of barley, wheat and young alfalfa bout one-third of the stand is de troyed by a depression of about two nches, and about two-thirds by three $r$ four inches. In some places where he water has been so deep that it was mpossible to make an estimate, it wa practically all destroyed. That is, if the whole field were in that shape it would be too thin to be worth cutting Old alfalfa seemed uninjured. There was no grain old enough to show the ffect on old grain, but it would not have been as bad as with the young grain, though anything but good. In much worse. It is due principally to the water standing too long and deep. On account of the pressure it would take the water that remained in the depression much longer to soak away than if that were all that had been put n there in the first place.
Smaller checks, and especially square or rectangular ones, for lands lying o large a scale, would merely increase the cost without any corresponding advantage. The larger they can be made the greater area a given number of men can handle, and the only limitation on the size is the depth of water in them and the facilities for getting it quickly in and out again when it has done its work.
There seems no doubt that all this work is profitable. Miller \& Lux are not offering any land for sale, yet they are constantly increasing the area in crops and making new canals, and lat erals by the league, that in most counThey have 200 men in constant employ and have a thousand or more during and have a thousand or more during most of the summer, with many more in harvest. The whole is in charge of Mr. Miller, who is one of the best business men of America. In forty year
price of wheat, the superintendents say there is still a profit in it on this land, and there were some 8,000 acres already seeded wh
going in.
oing in
On the lands of the Kern County Land Company 800 men are employed the year round, with an increase of thousands during haying and harvest. Though their land is cor eale in small tracts, the gigantic scale on which they are farming the rest shows that the wners, who are also shrewd business men, know what they are about. They have also been at it long enough to find out, and are certainly not working eight or ten townships to make a show o sell out on. And the fact that thousands of acres of their lands are rentod out to grain farmers whose long strings of teams and plows dotted the great plain for leagues, renters who are no pretty safe to say that there is here fair profit in raising wheat by irrigation, even at the present price. About the profits of the alfalfa, even at the low price of beef, there is no possible question, one acre carrying an animal ing five, while the constant trampling of the herds seems to have no effect upon the stand of alfalfa, which would be quickly injured if water were scarce or stingily used.

Weekly Weather-Orop Bulletin.
Weekly Weather-Crop Bulletin of the Kansas Weather Service, for week ending June 8, 1896, prepared by T. B. Jennings, Section Director

GENERAL CONDITIONS
The first of the week was cool for the season, but the 4 th, 5 th, 6th and
7 th were very warm. An excess of rain fell generally over the northern half of the State, with floods in Dickinson and contiguous portions of surward to the Nebraska line. But little rain fell in the southern half of the State or the extreme western counties RESULTS.
EASTERN DIVISION
A good week for farming, advantage of which has been taken with the culin the central and southern counties and is tasseling in the southern. In Chautauqua a web-worm is at work on the corn. Much corn in washed-out districts has been replanted. Wheat harvest progresses in the south, but
crop is below expectation in Labette. Alfalfa haying finished in the south retarded by rains in the north. Fruits generally abundant. Pastures and meadows fine.
Allen county.-Good week for farming; wheat harvest in progress; flax and oats headed laid by; early clover cut; timothy ready to cut; much wild grass being cut, as the yield is equal to promise an abundance.
Chautauqua.-Corn tasseling, doing fine, though a small web-worm is damaging it some, and some upland fields are full of bugs; wheat harvest pro gressing nicely.
Cherokee.-Harvest is progressing, and cultivators are at work well; wheat rusting in and corn doing well; whea usting in places; grass fine. further sood week for corn, which is season; oats a failure; beginning to need rain.
Greenwood.-Corn cultivation in progress; ground in fine condition and crops doing well; grass superior; apple crop scant.
wheat ripening in good condition and wheat ripening in growing finely.
Labette.-Wheat harvest about hal through, but the crop not near so good as expected, the rust, fiy and bugs hav ing injured it very much; oats and fruit doing well; a la
corn in bad condition. corn in bad condition
Lyon.-Oats good; corn growing rap-
idly. idly.
Marshall.-Much corn washed ou of 31st, and fruit damaged and blown of by the wind; wheat and oats making great growth but getting some rust.
Neosho.-Ground is being rapidl cleaned; fair growing week; crops ar needing rain and week ends in rain. cultivation going on; corn doing well cultivation going on; corn doing wel being laid by; pastures and garden excellent.
Pottawatomie.-Alfalfa harvest re
tarded by rains; corn injured by hail and heavy rains being replanted; po-
tatoes in bloom; wheat harvest begun in south part.
Riley. - Wet weather retarding growth of corn and letting weeds get ahead; whest about ready for harvest: Shawnee, - in market.
Shawnee. - A fine growing we
everything in excellent condition Wilson.-Fine week condition. early corn laid by; harvesting, wheat good; first crop alfalfa cut; cherries in market; blackberries plentiful; gar dens fine; fruit will be abundant.
Woodson.-Much replanting of corn
has been done, in some cases whole has been done, in some cases whole fields have been replanted; some oats wise crops are doing well enough; will begin haying next week.

MIDDLE DIVISION.
Crop conditions are much more faorable in the northern counties than in many counties on the 4th. The army worm and the young grasshoppers are injuring some wheat. Wheat harvest is progressing in the central and southern counties and generally showing a fine crop, though in western part of Stafiord all small grain is gone nd there will be no harvest.
Barber.-Hot winds on the 4th; corn, worth harvesting in central townships but is slightly better in the southern Barton. - Wheat badly damaged, ley and oats will make nothing; pota toes and garden truck are suffering badly; frst alfalfa crop is stacked Butler, needed.
Butler.-Rain of 31st revived grain
very much; wheat usually much better in south than north half of county; al corn good; oats looking much better pasture, the best; alfalfa first-class.

 aCtUAL RAINFALL FOR WEEK ENDING JUNE 6, 1896.

Clay. - Much replanted corn has again been replanted, owing to the
wash-outs of 31st ult.; wheat doing well but rusting some; corn doing well ats and grass fine.
tion; wheat nearly in excellent condi tures and meadows fine.
Cowley.-Hot, dry week; corn and Kaffir growing nicely; wheat not yield ng as good as expected; rain would help the late wheat and corn.
Dickinson.-Much wheat and corn washed out; much damage by hail; all rops progressing finely.
Hares Hares need rain; corn holding its own oats and ripened wheat too fast; the heavy rain last night will change matheavy
ters.
Ma
Marion.-Wheat and oats improved corn growing well; fruit fair; pasture McP McPherson.-Good growing week; corn and oats doing
will be cut next week.
Mitchell. A good growing week; crops progressing favorably.
Osborne.-Farmers in good spirits and hard at work; corn and oats doing well; wheat and rye heading and in fine condition; hail hurt fruit in localities. Ottawa.-Some washing out by Sunpeared but result of their labors has not; grasshoppers are damaging wheat Pavenee.-Hot, dry week; small grain a total failure, corn on same road; pasfear of scarcity of feed; hot winds o th killed trees, with thermometer $114^{\circ}$ n shade.
Phillips.-Fine growing week; all crops looking fine; alfalfa nearly al erything trying to catch up.
ular damage winds on 4th, no partic ular damage; corn and Kaff
well; wheat harvesting begun.

Reno.-High hot Finds 4th and 6th all crops; much wheat a failure; oats may revive since last night's soaking main.
Rice

Rice.-Hot winds on 4th checked by light rain.
Rush.- Early wheat filling well, late Wheat all headed; rain needed badly grasshoppers and worms injuring ghum and millet coming up nicely new potatoes being marketed.
Russell.-Fair crop of wheat prom ised, though worms bothering in some sections.
Saline
Saline.-Hail storm of 2d destroyed all crops around Bridgeport; army worms and young grasshoppers enter
ing the wheat heads; crops of sll kinds badly injured on low lands.
Sed
ew hay on market.
Stafford.-Wheat, oats and barle all dried up, will be no harvest; cor commenced to suffer; hot winds blowng; farmers waiting for rain.
Sumner.-Need rain; corn looking well; harvesting soft wheat, which is county, not so well in nouth part o wheai looking fine; oats nearly ripe but not so good.
Washington. - Excellent growing
weather and good conditions for work. WESTERN DIVISION.
In the northern counties crops are in good condition, but in the southern rin.
Decatur.-Good growing week; gardens and pastures very good. Ford.-Wheat past all help; much of not worth harvesting; corn and oat high winds the past four dsys have injured all crops.
Graham.-Hail and flood damaged 1 Ito $2 \square$ over
some grain but outside of hail district Grant.-Hot winds on the 3 d ; all crops at a standstill; prairie grass dry nough to burn; whi practically be no mall grain; stook doing well. nothing growing except under winds under irrigaKea
Kearney.-Weather very bad on Meade. - Cros; need rain. hot winds; temperature 106.
Morton.-Hot, dry weather begins o injure pasture.
Ness.-Rain needed badly
Rawlins.-Fine growing week and verything growing well.
Sheridan.-Good growing weather or all kinds of crops; alfalfa being cut; very promising.
Thomas.-Some wheat damaged by hail; rain needed in west and north west townships; corn is doing well.
Trego.-Hal destroyed some fields where the wheat is in poor condition while prospects for barley, osts, whes and rye are more flattering in south west part.
Wallace.-First alfalfa cutting about done; strong dry winds damaging crops; wheat gone, early barley and oats won't make anyling, but with little.
on page 15.

## Millions of Gold

In sight at Cripple Creek, Colo. Only twenty-three hours from Topeka by the passing right by the "Anaconda" and all The famous mines. See the nearest Santa Ge agent for all particulars, or write to $\begin{array}{cc}\text { Geo. T. Niqholson, } & \text { W. J. Black, } \\ \text { G. P.A., } \\ \text { Chicago, III. } & \text { A. G.P. A. A. } \\ \text { Topeka, K }\end{array}$

Special Want Column.





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besk points. Brealing the best. Address Pro-
 THE BEST YARIETY OF FIELD BEANS-Is the
 B ${ }^{\text {ETTEATO}}$ menan $A$ GOLD MINE-A fortune for

 SEELNG'S POULTRY COMPOUND. - Every farmer who keeps poultry should use Seellng's
Poultry Compound. It will keep the birds free from
fice and mites and prevent cholera. Price 50 cents er pound package. For sale by leading grocers or SHORT-HORN BULLS FOR SALE-Cruickshanks
and Bates breeding. Sired Dy Valliey Champlon
11047. Address C. Chambers, Mont Ida, Anderson
 OR SALE-One hundred and sixty ace farm,
one and a halif milles from Buashong station, LIon.
county, Kansas. Good spring. Price 88 per aore. county, Kansas, Good spring. Price $\$ 8$ per acre.
J. B. McAfee, Topeka, Kas.


 milles from Linwood, Leavenn
Bamuel Boaz, Linwood, Kas.
 prive-winners, at farmers'
Farm, North Topeka, Kas.
 $\mathrm{F}_{\text {The }}^{\mathrm{OR} \text { SALE-Forty or elghty aores of frult farm. }}$


 30,000 TEN BEST KINDS SWEET POTATO plants sor sale during May and June at low prices.
Inquire of N. H. Pixley, Wamego, Kas.
A $\begin{aligned} & \text { UBURN POULTRY YARD.-EIGgs for sale from } \\ & \text { prize-wining B. Langshans and B.B. Hamburgs. }\end{aligned}$ A. prixe-wning B. Langshans and . . Hamburgs.
B. Langhan pen headed by frst premium oook at
he state poultry show at Topeka, 1896: frot on



## FARMERS, SETTLLERS, HEALTH-SERKKERS IN

 I Florida. Write us for information and low pricieson homeg, orange groves, grape vine, ppneapple,
fruit, vegetable and farming lands. State require-
 D and skin diseases a specialty. Wm. H. Righter,
Ph. G. M. D., 0 OS Kansas Ave., Topeka, Kas. CorreSTRAWBERRY PLANTS FOR SALE.-Mitchellis 82.2.5 per 1,000 , Remit wth order. Add
Hardin, Foreman Eglantine Orohards, Koshkonong.

W ANTED-Readers of the KANsAs FARMER to bargains and does the business. For less than one
dollar, 2-cent postage stamps are aoceptable. E where. Belmont Stock Farm. W On, two lazy backs and let-down end-gate, for \$55. Warranted. Kank and let-down end-gate, for
treet, Topeka.

HORT-HORN BULLS-Crulckshank-topped, for
sale. Cholce animals of palendld brealing. AdPURE sORGHUM SEED-Three varietles, heavy
crops of cane and seed; rich in sugar and best
 B MRRY BOXES AND POULTRY SUPPLIES-
ALFALFA- Crop or 1 Res. Puro seaf for LADIES $\begin{gathered}\text { Tosell tollet soaps, etc. Outfit free. } \\ \text { two } \\ \text { referen ieces from business }\end{gathered}$

Salesmen Wanted!
8100 to s125 per month and expenses. Staple line;
position permanent pleasan and desirale Ad.
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## Che fome Circle.

## THE STORM CLOUD.

Mightiest of the mighty, rolling giants of the swook ikid. on rens lesistle
Heralding thy coming with a voice's mighty Heralding thy coming with a voice's mighty As the ocean's booming
erns of the shore.
Black and brooding, angry nature's forces O'er thy grim visage streams of fire in bright
ness shine. Earth's dumb creatures cowering, with ex Wait pectant, silient, fear,
ence near. submission, thine awful presAnd man, with trembling limb and features pale, thee a
Turns on avall.
can aver
All nature, from glant oak to grasses' drooping spear.
Bear witness to
and drear.
Sweep on, sweep on, oh mighty power, king The world awaits with bated breath, thy
mighty cataclysm. CHILD'S WILL POWER. Remarkable Manifestaition in

Baby Rae had always beeu very nervous, so nervous that on several occasions, while he was getting his teeth, he frightened his parents by going into convulsions, and frequently when erying lost his breath so far as to lose consciousness altogether. Consequently we were obliged to humor him more or less to prevent his crying.
At a very early age he found his thumb, and until the day of which I write his chief eomfort lay in sucking that unoffending member. He could not go to sleep at night without having his thumb in his mouth. As he grew older we tried to break him of the habit, but it made him so very unhappy that we could not bear to insist. By the age of three Rae had lost all signs of spasms. He had always been "mother's darling," although he was my fifth boy. At the time I write of the arrival of a wee sister had awakened some sense of jealousy, and also, I sup pose, made him feel an increase of dig nity, as he was no longer the baby of the family.
One morning the "big carpenter" was in the nursery repairing the hing of a shutter. Rae stood with a hand kerchief carefully wrapped around his second finger, sucking his thumb as usual, and looking with wistful eyes at the tempting display of hammer, awl and screwdriver that lay on a cloth near the window. For a moment the thumb was taken from his mouth, and the baby boy said very distinctly, as he always spoke: "I want to be a carpenter," and instantly the thumb was replaced in its accustomed receptac ", "Carpenters don't suck
For a moment, Rae looked at him, then he slowly put bis two little hands behind his back and held them tight His grandmother noticed the action, and, taking advantage of the occasion promised to give Rae a tool chest all his own if he would neve- suck his thumb again. The child was very quiet and thoughtful all day. Occasionally he would jerk his in uig sut tigh mouth and hold his right hand tight with his left, as if determined not to forget again that he was be a car penter. At bed time the carefully put his hands under hin pllow. He wa very restless, he could not go to sleep hear his crib sining to him. Presently little hand come between the bars a little hand crie bel "You hold it and a baby voice said: "You hold id igh, I cone rember." to was night nigh the nevi but he never put his thumb into his mouth again. He earned his little chest of tools if ever reward was won, and a happier little boy was never seen.
Rae is eight years old now, a fine, manly boy, always most thoughtful of others. He is full of life and spirits. Ilis nervousness has almost entirely disappeared. He often shows the same carnestness of purpos sol strongly the played so young. We icel strongly the responsibity of leading direction.-A able will in the right.

## DRAWING-ROOM SCREEN.

Made at Moderate Expense.
There is no minor article of furniture perhaps that is more useful in a house than a pretty screen. Every drawingutes largely to its cozinese, especiall in the winter months. To purchase really nice screen, ready-made, a good round sum must be expended, and evot prove satisfactory. I am giving, there ore, a practical suggestion for a home made screen, which, if properly car ried out, will result in a charming an useful addition to the drawing-room. For the framework of my screen, a ordinary two-leaf clothes-horse answer admirably; but if a particula size and width be desired, a working carpenter will knock you up what you require for a trifle.
Having your framework ready, cove it with a strong unbleached calico. This will be best done by using small black brads, and covering each lea separately. The calico should be strained very tightly from side to side, and plenty of brads used in the nailing. When these preliminaries are acco plished the frame is ready for its ornamental covering.
The materials required will be as fol lows: Fine olive-green cloth to cover the screen quite plainly on the outside, a yard of lemon-colored velvestle to line sufficient eau-de-Nil pongee silk to line the inside of the screen, and to cover half of the front. I am unable to give quantities of material in this instace, as I have not suggested any particular size for the screen, which may vary with the tastes of the reader, and the actual making is what I wish to make clear to you.
It will be seen by the sketch that the ornamentation of the screen consist. of a flight of butterflies upon one lea and the lower half of the second These are fashioned from the lemon colored velveteen, and should be cut out from a paper pattern, which mas be varied in various positions accord ing to the ingenuity of the w orker, and
it is a pretty idea to have the butterfies a praduating in size from large to very small.
These, when cut out, can be fixed
on to the cloth in two or three ways:


## the screen

if needlework is not cared for the pret $y$ insects can be fastened to the cloth with good and clear liquid glue, gilaing little paint applied with a camel-hair brush The other method is to apprique the butterflies on, using a fine pliq thread for the purpose; in both gold thread for the purpose,
When this ornamentation is complete, and a glance at the sketch will give an idea of the arrangement, the cloth must be tightly strained over the rame, each leaf separate, using small fancy nails for the purpose of fixing, ancy and best to cut a narrow strip of cloth with which to cover the soreen where the which to cover the join, and this should be nailed tightly and smoothly as a last nailed
item.
Having then covered the screen, the upper half of one leaf should be further adorned by a full gathered piece of the eau-de-Nil silk, as seen by the sketch. We then come to the inside of the screen, and this is lined enghtly y with the eau-de-Nil light photographic shelf can be, if liked, fixed across the top of each leaf, and a few pretty fancy brass hooro

## Scoltsemulsion. <br> makes Plumpness is prosperity good-nature, happiness, It is not to

 thin people plump. $\qquad$ shelter from Neuralgia, shield against nervous prostration; shetter from Neuralgia, shield all -security from germs of Consumption and an escape from a thousand aches and pains which cling to a poorly nourished body. Scott's Emulsion of Cod-Hver (hat but plump pophosphites will make thin people not over-fat but plump It smoothes out the wrinkles and brings the dimples back.he center will be found most useful or hanging the work bag, etc., upon. Your screen fored for a finishing tounl hat is required of gold tinsel lace in re a few yards of gold edge the screen sertion why op and bottom. Mo but it would no a little elaborat,-Madame.

PRETTY CANDLE SHADES. They Are All the Rage Just Now,
Really Deserve to Be.

Reair the materials required For a pe three-quarters of a yard of white satin, three yards of rivbon two inches wide, four yards of chiffon. I have always found it best in manufac turing any wall lamp or candle shade

to purchase the cardboard frames already made, if possible, as they are a little troublesome to cut out and fi, satisfactorily. If, however, you are not able to find just the right thing get a large sheet of strong drawing paper and trace the shape of the shade upon it in penci, afterl then only out carefully; you will then only have to fasten the sides together with a few stitches, thus forming the frame; then cover them plainly and not be difficult
satin. The chiffon will not to arrange if it is gathered on th tiny beading upon the is arranged as vandykes. The effect of shown in the sketch, when placed upon the shades and center whe with appropriate floral deco the table with appropming and artistic. rations is most chave suggested white and scarlet for I have suggested white and scoloring, but of course the designs the coloring, but of course the carried out in several shades: pink and ivory, or two shades of yellow would look well.-Madame.

How She Saved Many Wrinkle An intelligent and philanthropic woman whose life is fuil of thought for others has a pecuiiarly young and unlined face. She herself explains this by saying: "I will work for the unfortunate and think of them; but I will not 'care' for them in our ordinary acceptation of that term. I win not 'care' for myself. By that I mean that I will not brood over any trouble whatto remove it, but it shall not steal into and corrode my mind with worry. That ione solution has saved me many a wrinkle."

Men in Gray Preponderate
"It has often been said of the veteran soldiers, when they have appeared on parade, as upon "why, how many young an observer, "why, how many young cannot be said many years longer There are still to be seen in the ranks numbers of men comparatively young in appearance, but I was struck on last Decoration day by the number who have now grown gray."

Editor Kansas Farmbr:-Belleving that you are ever ready to help along the right thing, I beg to send the following for $p$ cation: At a meeting of delegates of the Women's of the central counties of Kansas, held at Wabaunsee, May 26, 27 and 28 , the following resolution was passed, and certain representative women from each county appointed to see that it be published in the leading State and county newspapers: Resolved, That we urge upon all Chris
tlans of the Central Association and al tlans of citizens to use every effort to arouse good citizensin an earnest and aggressive and maintain ant in favor of the enforce ment of existing laws, and in opposition
the resubmission of the prohibitory law. the resubmission of the prohibitory law.
June 1, 1896 Englishwoman.
With the blood full of humors the heated term is all the more oppressive. Give the Syrgsparlls and s dose or two of Ayer's Pllls and you will enjoy summer as never before in your life. Just try this for once and you'll not repent it.
Ohristian Endeavor Washington Oonvenvention.
Excursion tickets for it will be sold July 4, 5, 6 and 7 , via Vandalia-Pennsylvania Short Lines from St. Louis. W. F. Brun ner, A. G. P. agent, St. Lition about the furnish tickets and rates and return limit through rication. A postal card will do.

## Ice Oream Now Made in a Minute

I have an ica cream freezer that will freeze cream perfectly in one minute; as it is such a wonder a crowd will always be around so any one can make from $\$ 5$ to $\$ 6$ a day selling cream, and from $\$ 10$ to $\$ 0$ a day selling freezers, as people it is demonstrated that an artican make money by so doing. The cream is frozen instantly ave done so well and free from lumps. I have done so well that I felt it my duty to let others know of this opportunity, as I feel confident that any person in any locality can make money, as any person can sell cream and the freezer sells itself. W. H. Baird \& Co., 140 South Highland Avenue, Station A, Pittsburgh
Pa. will mail you complete instructions and will employ you on salary if you can give them your whole time.
Those we call anclent.
in everything.-Pascal.

The coolness is refreshing; the roots and herbs invigorating; the two together animating. You get the right combination in HIRES

## Rootbeer. <br> 

##  $\left.Y^{3}\right\}$

The Peerless Remedy por Salo at Draggists. Price, si.00 Por Botilo
 ,

Che Houng folks.

## A LITTLE GOOD-NIGHT 'song.

 Good-nIght to you, dear! You are weary, The whind moowng weetw mord sighs dreary,And wanders $n$ and walls through the vines.
You have listened so oft to the tende
 Out here with the roses and you?
Good-night to you, dear; yet I linger And to wwthther rng on your finger,
And kiss the red rose on your breast.
And good-night, and good-night, dear, and Good-nlght! Love has ever his way;
But 11 old you forever and ever But 1 love you forever and ever,
And I kiss you good-nithtand and
-Allanta Constitution.

## HOWARD'S QUAIL TRAP.

 How Its Poor Little Captive Froze to Death in a snowstorm.Twenty years ago I was a little boy going to school. I lived in the country and the school house was a small frame l,uilding in the edge of the woods, about half a mile distant from my home. Dur ing the winter some of the older boys made traps which they set in brushy places for rabbits and quails, for there were a good many of both there at that time. The traps were attended at mornings, during the noon hour and evenings after school. Now and then a rabbit or a quail was caught by some one of
One Saturday I made a trap, too. I had watched the older ones and knew how. It was what is called a log cabin trap, being made of narrow strips of oak, laid up two and two like a log cabin and drawn to a peak at the top, the whole held in place by a hickory bow bent over the top and tied by the ends to the two lower pieces. It is set with figure 4 triggers, the long one pointed sharp and pushed into a broken ear of corn.
In the afternoon $I$ went to the school house, carrying my trap. There was no school, it being Saturday, but I could not wait. I was a little boy and the big oak trap was very heavy, but I tugged it across the plowed field to the woods. I rested a little in front of the empty school house, then set out to find a suitable place for my purpose.
Some distance from the school house there was a thick growth of hazel and in the midst of this I set my trap. I placed the triggers so as to fall easily, then laid grains of corn in two long rows leading away from it, placing the grains a few inches apart, so as to entice the game nearer and nearer and to final capture.
It was very quiet there among the hazel. It had been moist and warm all day and the clouds above me were heavy and hanging low. Somehow after all I did not feel as happy as I had expected. I was inclined to be tenderhearted and the thought of trapping the timid little bobwhites I think weighed on my conscience. But I consoled myself by thinking that I probably would not catch any and if I did I could let them

my heart was beating with exciteIENT.
go. Then I ran home and I believe I was more quiet than usual during the evening.
evening. Ausk it began to snow. A few inches fell during the night, then the weather cleared and turned cold. All day Sunday it grew colder and Sunday night the thermometer fell below zero. Monday morning it was too cold for me to go to school. Tuesday morn
ing the weather had moderated. I hurried down my breakfast and hastened to my trap. Before I got to it I could see through the brush that it was down and partially covered with snow.
My heart was beating with excitement as I ran to it and looked in between the slats. Then I raised it up and flung it back, bottom upward. I had caught a quail, just one, and it was lying there frozen-dead.
I believe that as a child my imagination was unusually vivid. I could see the little creature, lost from its mates, seeking food and a place of shelter from the storm; finding at last the scattered grains that led to what seemed protection; pecking at the ear until the heavy trap fell and shut it in forever; sitting there crouched down and frightened; beating against the slats or pulling nimbly at the flinty kernels that clung stubbornly to the broken ear. Colder and colder the wind and fine snow blew in through the crevices. All night it had sat there trying to get warm-perhaps by Sunday morning it had been too numb to stir-surely it had died by Sunday night.
I untied the hickory bough from the trap and kicked the oaken slats in every direction. Then I hid the little dead quail and covered it up with sticks and leaves from beneath the snow. On the way back to the schoolhouse I said a little prayer. I never told of my trap and I have never set another to this day -Howard White, in Brooklyn Eagle.

## INSTRUCTIVE PASTIME.

How an

## Trae May Be

An oak tree has $a$ very humble beginning. When it first sprouts from the acorn it has a fragile green stem and looks something like a young pea plant.


To examine it at this stage of its exist ence one can scarcely imagine that ome day it may become a huge oak. Any boy or girl can sprout an oak tree Take a tumbler without mueh diculty Take an acorn and run a threaded needle very carefully a little way under the shell on one side, draw the threa it is partly submerged in the water of a it is partly submerged in the water of a tumbler, as shown in the cut. Keep in warm place, and before long the oak ree will spro at, upward and

Horace Mann's Advice to Boy
Horace Mann gives a bit of advice to boys: "You are made to be kind, boys. If there is a boy in school who has a club foot don't let him know you ever saw it. If there is a lame boy, assign him to some part of the game rand hungry one, give him part of your dinner. If there is a dull one, help him to get his lessons. If there is a bright one, be not envious of him; for, if one boy is proud of his talents and another is envious of them, there are two great wrongs and no more talent than béfore. If a larger or stronger boy has injured you, and is sorry for it, forgive him. All the school will show by their countehave a great fuss. And remember who said: 'Love your enemies,' and 'Bless them which curse you.'

Jinmy's Lacld Explanation
I really cannot understand,"
I really cannot understa,
Said itttle Jimmy's ma
Whald they've such poor, conductors
Upon this trolley car!"
I think, ma, I can tell you;
A poor conductor won't let out
The electricity.
N. x. Mercurf.

## FEATHERED PARSON

## An Antipodean Bird Who Probaby

 Best Talker of His Kind.Some time since a friend of mine, having occasion to purchase a small article, entered a little thread and needle shop in the environs of the city of New Orleans, but found no one in the place, writes J. Carter Beard in the Philadelphia Bulletin.
turned about to leave $a$ hoarse voice called out:
"Wait a moment, ma'am. Take a chair."
Looking around her in some surprise at not seeing any source from which she could suspect the voice to proceed or any possibility of accepting the in vitation so cordially extended to her she replied:
"I'll wait, but I see no chair."
"Betty! Betty! come quick! come quick! come quick! Some one here Take a chair," called out the voice loud ly.
in the
n the litle shop but herself, my friend hastened to the door, when she hap pened to catch sight of a bird cage just inside it, containing a strange looking black bird, with two white bands, that reminded her of those worn by English clergymen, extending downward from its throat. At the same moment a woman appeared at the half-opened door leading to the rear of the shop.
"Tas tha burd be talken, mum," said she, with a strong North-of-England accent. "Tas a parson, mum; them do go on wors'n parrots."
On inquiry, the talker proved to be what naturalists call Prostehmadera, which had been brought by the shopkeeper all the way from New Zealand (where she had formerly
which the bird is a native.
Its popularname, "parson bird," given it by the cariy colonists of New Zea land in allusion to the peculiar tufts of long white feathers that hang down from the throat as in to setorlits glossy black plumage, and which resemble clerical bands, certainly seems appro proverized talker it gives vent to a jar tomporize dis bands and gon or sounds, gesticulang one the declamatory atyle of preaching. A gentleman destyle of preachird. A gentleman de-
"Hig shakes his head,
ide, then to another, as if he made his

remarks first to this part of his hearers and afterward to that, and once again, with pent-up vehemence, contracting his muscles and drawing hice waxes loud, ae if to gether, his voice waxes loud, as

It is a favorite cage bird with the col onists, being easily reared in confine ment, and its extraordinary powers of mimicry make it a very interesting pet. It can repeat whole sentences and mi tate, among other things, the barking of dog to perfection. Its memory teachableness and articulation are bet ter than those of any parrot, in perhap


##  <br> MOST SUCCESSSFUL REMEDY FOR MAN OR BEAST. <br> KENDALL'S SPAYII CURE

Dr. B. J. Kendall Co. Sirs:-I have used your Kendall's
Spavin Cure with good success for Spavin Cure with good success ber curimest I have ever used.

Yours truly, august Fredrick.
For Sale by all Druggists, or address
B. J. KENDALL COMPANX,
Dr. B. J. KENDALL COM

For the Meeting of the Nobles of the Mystio Shrine, at Oleveland, Jane 23 and 24, the Nickel Plate road will sell tickets available on trains June 21 and 22 , from Chicago to Clevelana and returning until or the round trip, good returni.g on the round trip as compared with other lines, and our passenger service includes fas trains, drawing room sleeping cars, and an unexcelled dining service. For furthe particulars address J. Y. Calahan, Genera Agent, 111 Adams street, Chicago, Ill. 10

## Low Rates to Oleveland.

The Nobles of the Mystic Shrine will meet at Cleveland, June 23 and 24. For this occasion the B. \& O. R. R. Co pill sell tickets at reduce rates lines west of the Ohio rive for all trains of June 21 and 22, valid for return passage until June 25. The fare from Chicago will be $\$ .50$ and correspond ingly low rates from all other points. Tickets will also be on sale at all point hroughout the West.
The B. \& O . is the oniy line running Pullman sleeping Fleveland
G. P. A., Grand Central Passenger StaA. G. P. A., Ghicago, Ill

Important to Teachers.
Low rate over the Great Rock Island Route to Buffalo and return to attend the convention, July 3-10, 1896
Next month, in Buffalo, N. Y., the teach ors from all over our land will meet in anual session
They are perhaps the most truly repreour Union.
They are the instructors of the youth who belong to all classes and sects. The Great Rock Island Route realizes this and expects to transport with its elegant equip ment thousands of these educators.
For tickets and sleeping car reservations, mapt and ask to be routed oyer the C., $\mathbf{R}$. I. \& P. Ry. A beautiful souvenir, called the "Touris sent postpaid. Address John Se
General Passenger Agent, Chicago.

 ME: =2vez

RTY FOR $\$ 1.00$..


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The schemes for getting money from those who, by industry, produce value are not reduced in number by the vicisitudes of the times or the progress of civilization. It is true that the hand of law is now laid upon some forms of gambling which, a century or less ago, were thought to be as privileged as "other" business. Thus, lotteries are almost effectually prevented in this country by act of Congress. But other lorms of gambling, put forth under the ious and equally bare-faced in their characteristics as agencies for robbery and are still protected, or at least permitted, by the law, and are allowed to
use the United States malls in the steering of victims.
A. swindler not long ago crosse Kansas avenue, in Topeka, and approaching one of the leading business men of the city, representing himself as a clerk or messenger from another business was on the opposite side. It was after banking hours and the swin dler asked his victim if he could accommodate his employer with cash for a $\$ 225$ check. The request was not an unreasonable one and the merchant willing to accommodate his neighbor, replied in the affirmative. To carry out the deception the swindler re from which he pretended to be a messenger, and after a few moments returned with a check for $\$ 175$, ex plaining that his employer had alo with thi amount and would be much obliged by the accommodation. The $\$ 175$ was paid to the man, who has not been seen in Topeka since, and was never employed in any business house here. The forgery was immediately discovered when the victim sent the check to the bank the next day. A swindler who thus procures money from ancther s severely dealt with if caught. He gained the confidence of a shrewd business man and robbed him.
It has often been thought that farmers are easy prey for the smooth swindler, and are oftenest victimized. However this may be, in general there is a class of gamesters now actively at work who take greater stakes from the cities and towns than from farmers These are the "board of trade" and the "curb-stone operators." True, farmers, though they do not generally fall into though they do not generally fall into victims to tbeir schemes for depressing the markets. These operators have for many months complained of dullness in "business." Some of them bave recently sent broadcast alluring circulars. One of these from a New York "house" purports to show by sample statements of business done how, with an investment of $\$ 100$ for a "client," this house has in less than a month returned to the customer his original $\$ 100$ and with it $\$ 485$ profit. This profit was made by buying shares of some of the fluctuating railroad and other stocks, paying 5 per cent. "mar gins," and selling when advances came That some immense accumulations have been made in this way is true have been made on simple wagers. In either case, the money was taken, uneither case, the money was taken, unsomebody who had earned it.
someboay who had earned it
So great is the disposition to gamble that, for the promotion of gambling operations on any scale desired, special facilities are provided. A percentage
is charged on all operations by the is charged on all operations by the "houses" through which the "deals" "house" whichever party wins or loses. "house" whichever party wins or loses.
So, too, in the "deals" in corporate stocks, the broker gets his commission in any case, his only proper interest being in the commissions on the amount of the transactions negotiated by him. But the broker may have, and often does have, another interest. The stocks which he buys or sells for a client may be those which he buys or sells for himself or in which he has an interest. It is not impossible that in transactions of this kind, in which he
has the entire matter in his own hands,
he may make great profits for one cus The dullness complained of on the tock boards results from the recen eluctance on the part of outsiders to eluctance on the part of outsiders to the ""xate" Their operation are not under the ban of the law, and ret under the ban of the law, an ho read the KANSAS FARMER ar not the usual victims of this species of ot the usual victres of this species ffort to she "lambs" or ling fiforts to secure la mbs for feecing is ikely to extend their allurement amoid the almost certain eventual caavoid the almost certain eventual ca tastrophe of the gambler is to keep entirely chemers.

## RAILROAD OOMMISSIONERS AT WORK

The Kansas Railroad Commissioners are attempting to secure rates from Kansas points to the Gulf, proportionate to the rates from the Missouri river east. At present, rates via the route south are much higher than via those east. It is well understood that the limited control of the State Railroad Commissioners within the State is reduced to nothing as to roads or connections beyond State lines. But the Kansas Commissioners have brought be matter to the attention of the nter-State Commerce Commission and hearing has recently been had. The prospect of lower rates to the Gulf has stirred up the interests of cities on the routes east and has also developed some jealousies among them as to Kansas trade. It is necessary to consider with caution all discussions of the subject which appear from interests located on either route, for their arguments are cast upon the lines of the local interests. What Kansas is interested in is the cheapest possible outlet for her crops. Her produce has heretofore gone aimost exclusively via tbe long routes to the East. Most of the railroad influences favor the eastern route, so that direction is likely to secure its full measure of concessions through other influences than those of the Kansas Commissioners, who, therefore, do well to direct their attention to obtaining concessions via the south.

THE HISTORIOAL SOOIETY'S ROOMS At the last session of the Kansas Legislature, a joint resolution was passed assigning to the State Histor ical Society, for its permanent quar ters, all of the rooms in the east wing below the Senate chamber. The growth of the historical collection of this society has been phenomenal the State offices, it has gathered and mer for present and future use of those who would ascertain anything about the history of Kansas, such a vast amount of materials as can be properly accommodated only in large quarters. The society is the legally authorized agent of the State in mak ing and preserving this collection. It members are largely the editors and publishers of paper in State fre give their ser in id the society free of charge and in adition contrib the regulare completed are bound, thus preserving in every detail every event, both great and small, of every locality in Kansas. Besides these papers, the collections of the society contain almost every other conceivable piece of information as to Kansas history, and also a miscella neous and historical library of great nd increasing value
The Legislature did wisely in assign ng to this collection the ample room above mentioned. But this assign ment by the body most nearly repre t ling the people seems to have been axecutive Corarily disregarded by the xecutive Councll, and the rooms in onded for the Historical Society, a oan anaued by thelr lormer occu pants, have been given to other depart Council innut that the Executive Council intends to thwart the purpose of the Legislature in this way. These intruding departments should be moved out as soon as places can be prepared
for them in other parts of the building.

SILVER AS SEEN IN WALL STREET. Henry Clews' circular, of last Saturday, is devoted almost entirely to the silver question. Among other observations he says: "The feeling is one of surprise at the unexpected force and the wro-silver faction in the South and the West. While the East has been supposing that its educational ffiorts had largely broken the force ol this faction, the heresy has been gaining ascendancy with surprising rapidity. It has become a serious question whether free silver may not possibly obtain a lormidable vote in lhe coming elections of Representatives. It is now considered settled that the Democrable national convention wil be controlled by a large silver majority; and no small uncertainty exists in the minds of many as to how far like views may
influence the action of the Republican influence the
He is not, however, without hope, for he says: "When the silverites have deposited their vote their passion will quiet down and their leaders will A remedy is proposed which will remind the old men of the days of "wild cat" and other unreliable bank currency which was used as money. Or if the proposition will not admit of that construction, it is undeniably a proposition to secure to banking companiss the profits to be derived through loaning their own notes to be used as money. The circular says: "More currency is doubtless needed for facililating cash transactions in those sec tions; but that want can be easily satisfied through such modifications of our banking legislation as will cause the note issues to respond readily to every real need for currency. There is, however, an important class among both planters and farmers to whom credit facilities are even still more vital than 'more money.' It is well worth considering whether arrange ments cannot be devised for satisfying those wants, if not under any now ex isting banking methods, yet through authorizing other lending institution specifically adapted to affording the smaller credits which this important class so vitally need."
The opinion is expressed that, with sound money President, it is beyond belief that a Congress can be elected which will pass a free coinage bill over the President's veto, since this will re quire a two-thirds majority in each house.

## WASHBURN OOLLEGE.

Among the States of the Union Kansas holds a proud place, on account of the number and excellence of her pub lic and private educational institutions The public prints are apt to have mos to say of those conducted by the State and the prominence attained by the University, the Agricultural college and the State Normal among the schools of the nation entitle them to all the notice they receive. But the people who have brought Kansas to her present position have been strongly mpressed with the importance of bring ng the higher education within easy each of all the youngipeople of the State They have, therefore, founded acad mies and colleges in great number and are patronizing them well. Prom nent among the college builders have been the churches. Many parents and others interested in the best development of the capabilities of the young desire a more prominent place or the influences of Christianity in sducation than it is usually thought proper to introduce in the necessarily by the schools supported and managed by the State. To meet this want the leading denominations have each established and endowed a college. Prominent among such colleges is Washburn, at the State capital: It
has been doing its work for many years and its graduates have taken prominent positions in the affairs of life. This is doubtless owing to the thoroughness of the instruction and the care exercised in giving the honors of the institution to those only who,星
The college year just now closing at Washburn has been a successtul one. The total number of students is 219 .
Of these 113 pursued the studies of the
academy and 106 those of the college proper. There are fifteen graduates college.
The course of study in the academy is about the equivalent of those in the best city high schools, and is intended to prepare the students as they come from the grammar schools for entrance to the college. The course is three years.
The course of study in the college requires four years diligent labor. The proportion of graduates to the entire number of students is surprisingly large and speaks well for the staying qualities of the students.
The instructors number fifteen. The grounds and buildings are elegant. The library occupies a beautiful stone edifice, erected for its accommodation. The apparatus and means of illustration are well suited to the purpose. It will be well for those who desire to avail themselves of advanced educational privileges to write to Washburn college, Topeka, for information.

## A KANSAS HEREFORD PROTEST.

A most absurd position has been taken by the majority report of the committee of the American Hereford Association in cutting out Kansas this year from the one hundred dollar special premium offered to each of the river, and instead dividing the $\$ 100$ with Iowa, Missouri, Nebraska and Minnesota.
This money, offered by the Ameri can Association, is intended to encourage breeders to breed good Herefords and to exhibit at the leading fair of each of the States named, and the money-every cent-goes to the Hereford breeder and not to the fair asso ciation, and yet Kansas is cut out because the Topeka fair association did not pay their other premiums a their last fair, hence every breeder must suffer still more as a consequence thereof. If the American Hereford Association permits Kansas to be cut out for such frivolous reasons as given by the majority of the committee on assignment of this special premium they need not murmur hereafter fair associations follow suit and like wise fail to offer classification for Hereford cattle.
Kansas breeders will not permit dis crimination in favor of other State that do not do nearly so much to sustain the American Association as they do. They are not built that way. In order that Kansas breeders may have some definite idea of the strength and comparative importance of Hereford interests in Kansas, we publish herewith the minority report of the committee, prepared by C. S. Cross, owner of Sunny Slope farm of Herefords, at Emporia, Kas., which is as follows:

## C. R. Thomas, Secretary Americ Asociation, Independence, Mo,

Dear Sir:-As a member of the committee selected to apportion fair money west ollowing minority report
I favor giving'si00 each to Minnesota, St. Louis, Iowa, Nebraska and Kansas. In make a few comparisons. Volume XV shows Minnesota has 11 members and 5
men registering, Missouri has 95 members and 92 men registering, Nebraska has 59 members and 46 men registering, Iowa has 97 members and 101 men registering, Kansas has 52 members and 84 zegistering.
Last year, Nebraska had one Hereford herd exhibiting, Iowa two, Kansas had five. As a matter of argument, it makes no whether the various fairs pay their premiorders for premiums, as well as Kansas,
and if the payment of premiums is to be the question as to the distribution of money, Kansas is as well entitled to the money of members represented in the herd book and the number of men registering in the same book are to be taken, then Kansas is a
dozen times entitled to the money rather than Minnesota. If the number of herds showing is to be the guide, then Kanas ex ${ }^{-}$ showing is to be the guide, then Kanas exthe money rather than Nebraska, exhibit
ing one, and Iowa two. tee's action in ignoring Kansas in the dis tribution of the money of the association. ery respectifully,
C. S. Cross.

If you want Kansas Farmer and Or, Kansas Farmer and Topeka Ad vocate, send $\mathbf{\$ 1 . 5 0}$.

## KANSAS OROP OONDITIONS.

The State Board of Agriculture issued, June 5, 1896, a bulletin showing by correspondents, for May 31, as follows:
The extremely high percentage of condition reported April 30 has been malntained in but very few counties, the present average for the being 69. The average, however, in eighty-four counties, containing a smaili fraction less than 75 per cent. of the total acreage, is given as 9.20, while in the twenty-one co it is 33.45. Twenty-eight counties having an average condition of 97.46 , ranging from 90 to 117, and containing 477,776 acres, or 14.35 per cent. of the total acreage, according to rank are, Washington 117, Clay 102, Marshall 102, Doniphan 101, Jewell 100, Leavenworth 98, Brown 97, Gove 97, Osborne 97, Harvey 96, Riley 96, Nemaha 95, Pottawatomie 95, Republic 95, Wabaunsee 95, Jackson 94, Chase 93, Geary 93 Marion 93, Phillips 93, Cloud 92, Allen 91, Atchison 91, Smith 91, Douglas 90 Thirty counties showing a condition o 75 to 89 , inclusive, according to rank sre, Johnson 89 , Lyon 88 , Jefferson 87 are, Johnson 89, Lyon 88, Jefferson 87,
Mitchell 87 , Bourbon 86 , Wilson 86 , Mitchell 87, Bourbon 86, Wilson 86
Decatur 85 , Dickinson 85, Chautauqua 84, Neosho 84, McPherson 83, Trego 83 84, Neosho 84, McPherson 83, Trego 83,
Ellsworth 82, Linn 81, Sheridan 81, Ellsworth 82, Linn 81, Sheridan 81,
Crawford 80, Morris 80, Montgomery 79, Ottawa 78, Elk 77, Franklin 80, Osage 77, Rawling 77, Scott 77, Sedgwick 77, Anderson 76, Logan 76, Rusell 76, Graham 75, Greenwood 75. The evere Grase in the triangula block of counties southwest of a line xtending from Cheyenne to Sumne a due to high winds, unusual hest and ack of timely rainfall which prevailed o a grester or less extent during the ret gracer or lay rn tier of four countie southward from the Kaw valley the chief harm is a result of too much and too frequent rain, flooding some of the low lands and causing more or less rust and falling down. The late cool, cloudy weather has been against a large de elop to wheat Here and there worm trange to the locality have caused trange to the widerpread causm The month has been so wholly unfavorable for chinch bugs that they are scarcely mentioned. Harvesting is in progress in the extreme southern counties, and from ten to fifteen days early.

SPRING WHEAT.
The average condition of spring wheat is 72 .

RYE.
Condition 76. The averages of 100 and above are in Clay, Jewell, Phillips, Marshall, Allen, Gove, Marion, Norton and Washington, respectively

## OATS.

Condition 83.50. In nine counties the average range is from 100 to 119 , Washington leading with the latter. CORN
The only material drawback to corn prosperity generally as yet is ascribed to too copious rains. These have been so heavy as to not only well-nigh sub merge and drown out plants on the lower bottom lands, but to do much
harm by washing, especially on listed ground having any considerable slope thereby lessening the stand. On ex tensive areas in the eastern third of much retarded and the weeds have made such a lead that vigorous work will be required for their subjection and mellowing the imporous surface soil. In spite of excessive moisture brilliant green color and the prospect in the State as a whole is highly favor able. The average condition is 90 , and fourteen counties reporting it as 100 or above are as follows: Elk 108, Smith 104, Kingman 103, Marion 103, Gove 102, Cowley 102, Jewell 102, Norton 101, Atchison 100, Ellsworth 100, Phillips 101, Geary 100, Graham 100, Rooks 100 Forty counties report average condi-
tions ranging from 90 to 99 inclusiye. tions ranging from 90 to 99 inclusive. POTATOES.
About the same area is reported in
potatoes as one year ago. No unfavor-
able conditions are mentioned except too much moisture in some of the east ern counties, and the presence of tato bugs in a few isolated fie
THE SORGHUMS.
The various sorghums, including Kaffir and Jerusalem corn and millo maize, average a condition of 85

MILLET AND HUNGARIAN. The acreage of millet and hungarian ys indicar.

ASTOR BEANS
The area in castor beans is reported as 15 per cent. less than the diminished acreage of one year ago.

BROOMCORN.
Broomcorn shows a more notable ecrease in acreage than any other crop-an estimated cut of 60 per cent.
from the 134,487 acres of last year. Its from the 134,48
condition is 83.

010 per cent., or 23,000 acre
or 23,000
Barley shows an enlarged acreage n nearly every county where much rown, and the general increase is put at 30 per cent.
Reports on conditions of grasses and lovers mostly represent them as ex ellent, giving luxuriant pasturage and promise of great yields of hay. Much ous growth and the first crop is in pro cess of harvesting

## LIVE STOCK.

Live stock is invariably reported healthy except that "cholers" among ogs to a limited extent is mentioned in twelve counties.

## Lye on Potato Bugs

Editor Kansas Farmer:-I notice in local papers this statement: "Kill potato bugs by mixing a weak solution of lye and
water., Now, I don't know the proper proportions. Will you please tell me how
many gallons of water to the can of lye? Also, what part of a spoonful to the gailon
Of water. This plan is new to the editor. Let hose who have had experience explain fully. It is doubtful whether there is a better or cheaper plan than dusting or spraying the vines with London purple or Paris green. Either of these mixed with water-one pound to 200 gallons of water-with, say a pound of tato vines with reasonable certainty of death to the potato bugs.

Want to Borrow Money From Kansans. Editor Kansas Farmer:-Enclosed find the following clipping from Kansas City Star, in which a number of Senators, Majors and Judges call upon the people of Kansas to raise the money the Export Company
for a galveston elevator.
Wichita, Kas., May 2.-Delegates from
McPherson, Rice, Barton, Butler, Sumner, Harvey, Reno, Cowley, Harper, Kingman
Pratt and Stafford counties met here this Pratt and Stafford counties met here this
afternoon to consider the elevator proposition made by the Galveston Export Commission Company. Senator Forney, of Sumner county, presiped, and Judge King
of Kansas City, Kas., Mayor Savage, oo
Wellington, Brown, Wellington, Brown, of Anthony, Brincker-
hoff, of Lyons, and Moses, of Great Bend, and others, spoke in favor of the project,
which is for the Export Company to erect which is for the Export Company to erect
an elevator of not less than one-half a mil lion bushels capacity, the people of mortgage liens. Resolutions wed by firs indorsing the project and committio ppointed to push the work.
No doubt a good thing, but if the people of Kansas have gumption nough to raise the money why no ave enough gumption to build and anage it themselves, and not have
 "Uncle Sam" having mortgage liens on ertain railroads. Is this something similar? We would be pleased to know something more about it, and let the people of Kansas have an opportunity to think on the subject.
ist a Farmer.
The United States Treasury esti mates place the population of the United States, June 1, 1896, at 71,623, 000 . The same authority places the money in circulation at nearly $\$ 100$, 000,000 less than a year ago, and over $\$ 18,000,000$ less than one month ago. And prices are declining.

Lower Rates on Grain and Hay Demanded.
Editor Kansas Farmer:-What will the Kansas railroads do to help nove the coming wheat crop, and will they make needed reduction in rates to Missourl river towns? Will the Railroad Commission of Kansas be hood winked by the lines in Kansas by confining their work to an appeal to the Inter-State Commerce Commission for rates to Gulf ports, most of which have already been corrected, or will they do their duty by reducing the rates within themselves as they have he power to do and should do at once?
Petitions have been sent them from various parts of the State, asking tha reductions in the local rates of the will bollow. What betion will the will lollow. What action. Whl they take on these petillons, and will it bo early enough to benefit the resenin crop? The rates in Kansas on grain State. When the matter has been brought before the Railroad Commission, the answer has been made by the ailroads that what you want is lower through rates. The people of Kansas want lower through rates, but they will never get them until they get lower local rates. The board in 184 ecommended a lowor intance tarif, which was never put into effect. The present commisilon could do no better work than to order these rates pub into offect. In order that their effect may be seen, a comparison of the present figures with those proposed are shown below
PRESENT AND PROPOSED DISTANCE TARIFTS.

|  |  |  | No. 1. Now in effect. |  |  | No. 2. <br> Kansas 8ioners order of 1894. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |
| 5 m | les | under |  | 5. | 4. | ${ }_{4}^{4}{ }_{25}$ | $3.5$ |
| $\begin{aligned} & 10 \mathrm{~m} \\ & 15 \end{aligned}$ | \% | over | $\begin{aligned} & 5 \\ & 10 \end{aligned}$ | 5. | $4.5$ | 4.25 | $\begin{aligned} & 3.75 \\ & 4 \end{aligned}$ |
| $\begin{aligned} & 90 \\ & 20 \end{aligned}$ | " | " | 15 | ${ }_{6}^{6 .}$ | 5. | 4.75 | 4.30 |
| ${ }_{30}$ | $\because$ | " | $\stackrel{20}{20}$ | ${ }_{6.5}^{6 .}$ | ${ }_{6} 8$. | 5. 5. | 4.60 |
| 35 | \% | \% | 30 | 7. | 6. | 5.50 | 4.80 |
| 40 | \% | " | 40 | 7.5 |  | 5.75 | 5.1 5.1 |
| 50 | \% | \% | 45 | 8. | 6.5 | 6.5 | 5.30 |
| ${ }_{60}^{55}$ | \% | ، | 5 | ${ }_{8.2}^{8 .}$ | 7.25 | 6.5 6.75 | 5.45 5.60 |
| ${ }_{65}$ | . | $\because$ | 60 | 8.25 | 7. |  | 5.75 |
| 70 | " | \% | ${ }^{65}$ | 8.5 | 7.5 | 7.20 | ${ }^{5.90}$ |
| ${ }^{75}$ | $\because$ | \% | 70 | 8.5 9.5 | ${ }_{8} 7.5$ | 7.40 780 | 6.05 6.20 |
| 85 | \% | " | 80 | 9.5 |  | 7.80 | 6.35 |
| ${ }_{95}^{90}$ | \%' | \% | 85 | 10. | 8.25 | 8. | 6.50 6.85 |
| 100 | " | " | 95 | 10.5 | 8.5 | 8.40 | 6.80 |
| 110 | " | "، | 100 | 10.5 | 8.5 | 8.60 | ${ }^{6.95}$ |
| ${ }_{115}^{110}$ | \% | " | 1105 | 11. | 9. | ${ }_{9}^{8.80}$ | 7.10 |
| 120 | " | " | 115 | 11.5 | 9.5 | 9.20 | 7.40 |
| 125 | \% | " | 120 | 11.5 | 9.5 | 9.40 | 7.55 |
| 130 | \% | ". | 125 | 12.5 | 10. | 9.60 | 7.70 |
| 114 | . | " | 135 | 13.5 | ${ }_{11.5}^{10.5}$ | ${ }_{10}^{9 .}$ | 7.8. |
| 145 | \% | " | 140 | 13.5 | 11.5 | 10.15 | 8.15 |
| 150 | . | ، | 145 | ${ }_{14}^{14 .}$ | 12. | 10.30 10.45 | 8.30 8.45 |
| 160 | " | " | 155 | 14.5 | 12.5 | 10.60 | 8.60 |
| ${ }_{170}^{185}$ | " | ". | 180 | 14.5 | 12.5 | 10.75 | 8.75 |
| ${ }_{17 \%}^{170}$ | \% | \% | 165 170 | 15. | ${ }_{13 .}^{13 .}$ | 110.90 | 8.90 9.05 |
| 180 | $\because$ | \% | 175 | 15. | 13. | 11.20 | 9.20 |
| ${ }^{185}$ | $\because$ | \% | 180 185 | ${ }_{15}^{15}$. | ${ }_{13.25}^{13 .}$ | 11.35 | ${ }_{9}^{9.35}$ |
| 195 | " | " | 190 | 15.2 | 13.2 | 11.65 | 9.65 |
| 200 | " | " | 195 | 15.5 | 13.25 | 11.80 |  |
| 2 | ". | \% | ${ }_{210}^{200}$ | ${ }^{15.5}$ | 13.5 13.5 | 12.10 12.30 | 10.10 10.30 |
| 230 | " | \% | 220 | 15.75 | 13.75 | 12.50 | 10.50 |
| ${ }_{250}^{240}$ | \% | \% | $\stackrel{230}{230}$ | 15.75 | ${ }_{14}^{13.75}$ | 12.70 | 10.70 10.90 |
| 280 | . | " | 250 | 16. | 14. | 13.10 | 11.10 |
| 270 | \% | \% | $\stackrel{20}{ } 2$ | 16. | 14. | 13.30 | 11.30 |
| ${ }_{290}^{280}$ | $\because$ | \% | 270 <br> 80 | 16.25 | ${ }_{14.25}^{14 .}$ | 13.50 13.70 | 11.50 |
| 300 | \% | \% | 290 | 16.5 | 14.5 | 13.90 | 11.90 |
| ${ }_{220}^{310}$ | \% | \% | 300 310 | 16.5 | 14.5 | 14.10 | ${ }_{12.10}^{120}$ |
| 830 | . | . | 320 | 17.25 | ${ }_{15.25}$ | 514.5 | 12.50 |
| 340 | \% | \% | 330 | 17.5 | 15.5 | 14.70 | 12.70 |
| 350 300 | \% | : | 340 | 17.75 | 15.75 | 5 | 12.90 13.10 |
| 370 | \% | . | 330 300 | ${ }^{18} 8.2$ | ${ }_{16.25}^{16 .}$ | $5{ }^{15} 15$ | ${ }_{13.30}^{13.10}$ |
| 380 | " | $\because$ | 370 | 18.3 | 16.5 | 15.50 | 13.50 |
| ${ }^{390}$ | \% | : | 3890 | 18.75 | 16.75 | 5 15.70 | 13.70 |
| 410 | . | . | 400 | 19.25 | 17.25 | 518.10 | 14.10 |
| 430 | $\because$ | \% | 410 | 19.5 | 17.5 | 16.30 | 14.30 |
| 430 | $\because$ | 亿. | 420 | 19.75 | 17.75 | 5 16.50 | 14.50 |
| 440 | \% | ، ${ }^{\text {a }}$ | 4 | ${ }^{0}$ | 18. | 16.70 18.90 | (14.90 |

If these rates were put into effect they would bring about not only a reduction on grain and grain products that would be beneficial to the consumers and millers on local business, but they would force a reduction in every through rate in the State. The sooner it is done by the commission, the sooner will they accomplish part of what they are trying to do in their complaint to the Inter-State Commerce Commission.
with a windmill. When you make wour garden, irrigate it; don't devote your garaen, irrigat to wheat and corn. Put up your pump; in that there is

## A Oheap Fruit Oellar.

It is time to begin thinking about how to store the apples. Las apples thousands of bushels of Kand by midrotted in apples commanded a good price. winter apples commanded a good price. Read what L. A. Goodman, ons in the most successful fruit-growers fruit cel-
fruit cellar for the storage of apples for the winter seems a necessity and a growing demand is made for such a place. An axing it as wide and side of a the necessities demand, is the deep as the necessi for apples for the best storage place winter. The entrance $\begin{aligned} & \text { must be strong and substantial, with }\end{aligned}$ logs for the roof and sides and then covered with and then a short passage outer door, ander door, where the cellar proper begins, is required. Is person can afiormade of stone and then cover might be mane in some places would be permanent. In somer might the rool of the need the support of places the roof very wide; in othe, and only need supwould to make it as large as it might
"If found impossible to get the side hill, as here outlined, then the next best plan would bo toine is good and tion where the drainage only have it not scrape out sixteen feet wide and as long to exceed sixteen After excavation set a as necessary. Arough the center and place a strong heavy ridge-pole on to of them. Set a row of posts on each side of the excal Use logs for the poles on top of them. Use logs for cover and lay them the dirt will not fill the cracks so then cover it all with sift through and then well packed so the soll, have the ill iot that the rain whe end, extending ventilator at the ralve opening at to the floor, whit a the top of the cellar, shoulmitted to the so that cold air can be admited air can bottom of the cellar top

## taken out from the top.

"Bins made on each side for the re ception of the apples will be sufficient Apples placed in bulk thus will keep much better than the from the shelves. Keeping the air from the fruit will hold fruit much better tha allowing the air to paes or "If the apples are to be barreled and stack the barrels one on top of the other until the cellar is full. When you wish to sell, take the barrels down empty on tables prepared for the pur pose and sort out and pack ready fo market.
"Where these cellars cannot be made, then a double house with the space filled with sawdust and the roof double and filled with sawdust also, will be the next besc thing, but much more expensive. A foot or ten inches of space should be allowed for the firing in order that the tem

## not change in the house.

"If we keep in mind the fact that it is the changes of temperature that in jures fruit more than anything excep 'too warm,' we can easily understand

On the 3d inst., William H. Barnes, Acting Secretary of the State Horticultural Society, went to Oskaloosa and organized the Jefferson Count Horticultural Society, with the follow ing officers: President, Edwin M. PuOskaloosa; Vice President, J. M,
derbaugh, Osawkie; Secretary, E. M. Gray, Perry; Treasurer, J. M. Curry, Winchester. This society started on lively, with thirty-seven members. They will meet on the third Wednes-

## day of each month.

PRRAY GRAPES and POTATOES
[This paper was held over from last inter and is published now as a re-minder.-Editor.]
I was much interested in Mr. Norton's article on potatoes, especially the description of Mr. Pugh's potato house. I built a potato house last fanl, something like Mr. Pugh's, but with Mr Norton's suggestions of lmpro added. The house is lorty leet feet by twenty feet wide and elg foen deep. It is built in a bank, facing south. The frame-work is made up o $2 \times 6$ material; the floor is of $1 \times 6$ fencing laid one inch apart, and the sides and onds of bins are of $1 x 4,0 n e$ theh apart Now, as to ventilation, the giding point to be considored the buse potato house, I believe this house has ome very good features. Thereh the un-way four feet wide though center; the studaing are about sid nches from the maln wall, the ond are double, the walls beling about oot apart, the surlace boing differs with tar felt. The north end diso rom the south in that it is practicall air-tight, which makes a chamber at this most exposed point, and at the same time does not int fere with the free circula through the slatted inside wall, there is a door in each gable and a conven ient top ventilator, and in the south end there is an air-tube on each side of the door, which run down under the center of the floor of each bin. When these and the top ventilator is open they set up a free and very equally distributed circulation of air. I do no believe that any heating apparatu will ever be required. The potatoe have kept nicely, but the winter being o mild, my greatest trouble has keeping the CHis. D. WILLIAMS.
Silver Lake, Kas.
Experiments in Potato-Growing.
The Missouri Experiment Station has issued a bulletin giving account of several carefto growing. The following summary of "conclusions for the ing summary points:

1. Missouri soils are well adapted to rofitable potato-growing
2. Drought and extremely hot sea sons, whenever exply varieties.
planting of only early varieties. Apri 3. A mean temperature $60^{\circ}$ and $75^{\circ}$ ., the maximum not reaching highe han $85^{\circ} \mathrm{F}$., the minimum noinfall than 50 F., with a m about six inche venly distributed, in spring, gradually in fall-present and one-hall inches in for a the best climatic condition
and profitable potato harves
3. The crol yields are increased nearly proportionately to the amount of chemical fertilizer used up tash and 900 pounds of sulphate of pore.
superphosphate each per acre.
4. This amount $\$ 3$ and increase the between $\$ 30$ and $\$ 35$ and acre.
rop 100 to 150 bushels per acre.
5. The harvests in the variety tests or 1895 were obtained with 300 pounds of superphosphate, costing about $\$ 3$ per acre, and amply paid for the out
lay. lay. The harvest depends ( $a$ ) upon the
 Carnahan's Tree Wash and Insect Desitrover



CIDER etc. Send for Catalogue
BOOMER BOSCHERT DRESS CO.,
PRES
will live to see orchards from here to as fine fruit as is on that table from an orchard seven years old, at Rocky Falls, Col. I presume the boy is now from Wichita to Pueblo. At the Soldiers' Home, at Dodge City, they have done a noble work. They have irri-
gated 100 acres with reservoirs. The gated 100 acres with reservoirs.
Arkansas valley is filled with water
tuat can never be exhausted. We
good reward. count need.
have gone down 300 eand water. It is 300 miles long and five to ten miles wide in our stato. Wht the meth forty years finding out will not do for ods of the old country will not going westorn in waro, became poor out there, and could not get a living. Irrigation and small farming should be taught a the University and the Ag it college. We must come 500 young peo ple filing up to a large dry goods hound for employment, with sobergo I would hire you all." Something is the mat ter, and reclamation by irrigationd the only way out.
We have one-seventh of the good land of the world. The French geog rapher said: "The Mississippi valey cultural land on the globe, all in the temperate zone-the zone of pundre millions of people in this valley. How? In the new way! Go out where te cres; put up a windmill; water your ground, set out irees, garden and the chard, and begin to livel Ocres of land Union Pacific I lounsted. There was a house, and flowers in the windows, and I knew those people were prosper the rode out of man there. He had a wind mill, a reservoir of an old whisky baid rel, set as high as this wine, and where from? I see you are prosperous. How did you do it?" "Well," he said, windmill, and I have got along well. He was irrigating one "are. (He har ive acres in garden.) "I. He says "I will get to that in time. I get alo very well. I brought up my fachin my three daugh comfortable, thank you." There is a man, way out Wean water and living in peace and comfort and bringi
Irrigation will double the life of our orchard. I have a son giving at tention to that now in Obio. A gentleman in a city adjoining Cincinnati has an old orchard that had al most stopped bearing. He irrigated it and the trees took as in Kansas become useless at fifteen, sixteen or seventeen years old. "I cut my or Missouri said tofteen years old. After bearing five or six years I cut them down. I cannot afford to have Now that do not do not think an apple tree ought to die so young in Kansas. If we irrigate our apple trees they win trees receive thei death-blow in July and August. Wate in these months. At Ellsworth, year man, got up and said: did irrigate one acre, and I planted to everything. begin small, irrigate your orchard here in Douglas county. Mr. Sunt of strawberries, and "if he had had rai three weeks earlier he would will find ome who think irrigation a fraud This question is world-wide. They ar irrigating everywhere, and on his opportunities. Governor Morrill wa right when he said we had a start horticulture in this If we rigete there is no uncertainty. T C. Henry said to me: "I can ge money to build dams, but the diow culty is to get men irrigation." We must learn it. A man of luck, Emery. Do you think I could live by irrigation there water there and can I do it?" I said, "Go and try." Mr. Frizell, at Larned
正

## 1898.

quality and texture of the soil and this, in large measure, upon the characte of the season; and, (b) upon the fertil lty of the soil.
8. It is proportionate under favor able conditions to the number of vigorous plants and not to the mode of planting.
9. Planting by eyes, quarters or wholes, by stem or by seed end influences but slightly the yield per acre; under the diverse and not to be foreseen conditions of soil and climate for our State the most generally suitab planting is probably by quarters.
10. Keeping the growing crop free from weeds, blight, and potato bugs, and the soil loose are, of co
11. The amount of small, i. e., unmer chantable potatoes in the crop depands not upon the mode of planting and subsequent cultivation, but upon the fertillity of the soil, the favorableness of the season, the vigor of the plants and the nature of the variety
12. When seed potatoes are high in price it is advisable to consider the output per acre, viz.: Thirty-three bushels in crop; 4.5 bushels in experi ment 5 yielding 219.7 bushels; 2.2 bushels in experiment 16 yielding 250.2 bushels: 2.2 bushels in experiment in mind the cost of the fertilizer in the two last experiments, of respectively $\$ 10.50$ and $\$ 25$ per acre, make a selec tion of the mede of planting most suit able to the conditions.

## In the Dairy.

## Conducted by A. E. JoNES, of Oakland D.

## Asked and Answered.

Dairy Enitor Kassas Farmpr:-I was glad to see you discuss the low price of
butter in the FARMER of May 21 . What butter in the FARMBR of Mat of the cow,
concerns mi is nothe product
but the price of her production. From 105 but the price of her production. From 10s woun I made six pounds of butter. In what respect
skimmed cream butter, that it commands better price? What is right temperature for cream to be churned, and what kind of
a thermometer can be used to test temperaa thermometer can be used to test tempera-
ture of cream, and how used? What is ture of cream, and salting for general market? And last, but not least, how are farmers
daughters, who live miles from a daughters, who live miles from a good
town, to get a paying price for their nice town, to get a paying price for they can stay at hoee and make their own living and no
be compelled to enter the great industria throng, unsex (?) herself and perhap
crowd some poor man to the wall Cambridge, Kas. Bertha Utlex.
We are always glad to receive letters like the above from readers from farmers' wives and daughters, who, in larmers nosking after the milk and making looking
The low price of dairy products at this time is a grave question with every one who depends on the nearest store for a market. A better plan, however, is to sell nearly all the milk o a creamery during warm weather if one is located wise the very best buttance, an possible, and try selling in ter that is possib.
Six pounds of butter from 105 pounds of milk is above the normal, and is an average of one pound of butter to seventeen and one-half pounds of milk. Of course, this rate varies with the season. If the test was made in the winter time or on dry feed ht wocld still be by met creameries. The sver made by wor age returns last year gave one pound of butter to twenty- wo paunds o

As compared with the common way of raising cream among farmers the separator has several ad inges, ound (1) It takes out whatever dirt has found its way into the milk. (2) Separator cream can be kept under better con trol than gravity cream, as the latter is generally sour when (3) Separator cream can be the milk. (3) Separator cream can be ripened to the desired acidity with more certainty than any other. Of course, where ice is used and the ut-
most care observed, good butter can be most care observed, good butter can be
made in the old way, but, as a rule,
separator butter is of better flavor and ells higher in the market.
The best temperature to churn at in warm weather is 580 . One other adthat separator cream can be churned as low as $50^{\circ}$. This would be another point in favor of the separator.
Get a standard dairy thermometer rom a supply house. Insert the bulb in the cream and observe the point to which the mercury rises in the tube. One ounce of salt to a pound of buter suits most customers.
There is one difficulty in disposing of even the very best butter in small lots away from large markets at paying prices. Creameries tage of selling cost of transportation, and besides getting top prices for their product.
It is a commendable act on the part of young women to learn trades and take their places in the industria world alongside of men in whateve stition she is capable of filling.
Denmark and Holland almost the enDenmark and Hork in creameries and dairies i done by young ladies.
Kansas is in need of a dairy school Kanearection with the State Agricultural college, where boys and girls may foral college, cost and learn the whole go with mand making but er and cheese. Butter made on corect principles is more sure of sale and ect priter price than the badly-con tructed article. A well-educated but tructer cheese-maker of either sex wil nearly always find steady employment

## Good Oheese

G. A. Smith, of New York, thus decribed, before the Vermont Dairymen's Association, a good cheese. We add a few suggestlons ing it.
gard to the art of making
"There are a great many ideas of what constitutes good cheese. People have different notions of what they like, but there are few people but that like a good, silky cheese; a cheese that, when you press it between your thumb and finger, you feel you have something there-it is solid, but still smooth and silky. If it is gritity between the thumb and finger, a good many don't like itit is likely to become sharp, and a good many people don't like sharp cheese The majority of cheese-eaters wand mild cheese. To obtain this solid but silky texture, first cut the curd when it is not too hard; if you allow your curd to stand toolong the action of the renne is lost, and it is not so active in driving the moisture out of the curd.
"Commence gradually stirring it; agitate it enough to keep it from set tling together; if it settles together you will have to break it apart, and when you do that you lose the fat. Keep stirring so that the particles won't ad here, 80 that the curd gradually shrink down, and continue $1 t$ as you inoreas the heat until it is shrunk down to about the amount of dryness you wan it, and you have lost no fat. If you draw the whey off the curd, when the acla first begins to develop, take the curd in your hands, and if it springs apart and don't stay together at all, then your curd shows it is dry enough; or if you bite the curd and it squeaks between your teeth; that is the way our mothers used to tell, by the squeaking of the curd.
"Get the moisture out of the curd; lactic acid is formed by the breaking up of the sugar, and the quicker you get that out of the curd the quicker you get rid of the tendency to acidity. must retain the amount of moisture you want, thirty-six and a quarter in the hundred, then pile your curd up and cut it up into convenient pieces to handle and turn it over, and so gradu ally work the moisture out; but don' let the moisture collect on your pile o curd or it will develop acidity. To make the other kind of cheese - the ard and brittle kind-first let the curd det hard, and then put on the heat rap assimilated into the body of the curd If the curd is harsh the cheese will be harsh."
"Brown's Bronchial Troches" are of Coughs. Sold only in boxes. Avoid imita-
coat service in subduing Hoarseness and Coughs.
tions.

Is it More Over-Production or Under-Oonsumption?
The low prices for butter have set a ot of men to talking about the causes Wat have produced this state of anfairs. This may be true to a certain extent, but it seems strange that no one has anything to sey sbout under-consumption. Let us see how this matter would look in the light of certain facts.
In 1892, the Hoard creameries were In 1892, 3,000 families in Chicago with their butter eyery week. Times were prosperous, business was good and all the forces of society were moving slong in a healthy state. These three thousand families were prosperous and were living well, consuming lots of butter. Indeed, their demands were butter. Inan the capacity of the creameries to supply, and that year $\$ 15,000$ worth of butter was bought from outide creameries to supply their de mands.
How was it in 1894? The Hoard reameries were supplying the same number of families and nearly all were
identically the same. Hard times had dentically the same. Hall and revenue wase, busly lessened. The house-wives being restricted as to family expenses, being reized as to the butter expendiconomized so it came to pass that the 3,000 families consumed $\$ 31,000$ worth 3,000 lamer that year than in 1892. This simply means under-consumption. It also means that there is no man the business prosperity of the conthe business classes than the farmer.
The farmer produces food and the raw material for clothing. When everymody is busy, well paid for their labor, they live well and dress well. When business paralysis prevails, as it has done since 1893, every one makes one pound of butter go twice as This should teach us as farmers, and especially dairy farmers, not to listen to the cheap demagogues who would try to make us beagogues lieve the bound leve that our lalty of ather classes of society.-Hoard's Dairyman.
Messrs. Brandt \& Essley, of Canton, Kas., will open a new creamery at Burlingame, about the 15th of June. he main building is $24 \times 82$ feet, 11 cos 10,000 and hes a capacity of 6,000 pounds of butter a day. There will be formal opening, with speeches and muic The above firm are already mersing factories in ten differen pown mostly in McPherson county Mr. Brand says the demand for Kan Mr. Brater was never better, especially in the New York and Boston markete That the product of Kansas creameries in in ope be competing with Vermont, Wisconsin, Minnesota and Iowa is gratifying to Kansas dairymen.

TO WOMEN ONLY.
Free Treatment for Diseases Peouliar to Females.
In a lecture to women, recently, Dr. Hart man, of the Surgical Hotel, concluded his remarks as follows: "No one knows better than I how much some women suffer with diseases peculiar to their sex. No ore knows better than 1 do how many or these suffer with such diseases. Patiently, hope fully, wearily, and often silently, they eke No miserable exisy or heroine in romance makes a more touching appeal to human sympathy than the woman burdened with the care of a family trying to carry the extra load of some tormenting and eve present female disease.
To all such we would say: Write him giving him a careful descriptlon of you ymptoms, and he will promptiy advise yo ou until you are well. He will direct every detail of the treatment by letter without charge. The medicines he prescribes you will be able to get at the nearest drug store. Free book for females sent by the Pe-ru-na Drug Manufacturing Co., Colum
bus, 0 . Dr. Hartman's address is Columbus, O . Enclose a stamp to any agent of the
Nickel Plate road for an elaborately
trated art souvenir, entitied "Summer Outtrated art souvenir, entitled Sum, Ger Geral
ing." Adress J. Y. Calahan, General
Agent, 111 Adams street, Chicago, 11.
of Thos. Slater on page 15 of this paper.

4

HAY CARRIERS


Make Cheese at Home with sucin sim.



## Stack Covers Cheap!


Wanted, an Idea.
 CORRUGATED STEEL IRON ROOFING S1.75 PER SOUARE.
The above, partly from World's Fair Buildings, we
uarant
 ers at once. CHinCAGO Hot
fargest Second-hand Depot
Halstead street, Chicago, Ill.

## FARMERS <br> dO YOU WANT TO BETTER YOUR

 CONDITION? If you do, call on or address: The Pacific Nerthwest Immigration Board, Portland, Oregon.

United statos Manaard. All Sizes and All Kinds.

RUSSELL'S STAPLE PULLER and WIRE SPLIGER Drives and pulls staples,
cuts and spices
wire. 1 tis教 4 chant for lt.
Russell Hardware \& Implement


A MODEL TESTIMONILL
ft comes to us shis sish dily or thy lake, from one hichigan Southern. They have hundreds of miles in
se. but spend no time in praising in Simplo ofder
5,3 miles shipped at once, to nine points in four - Nent

PAGE WOVEN WIRE FENCE CO., Adrian, Mich.






## Gossip About Stook.

 A big Hereford sale was made by Sunny sisting of twenty-one head of thoroughbred Hereford bulls, to go to fine stock ranches in Wyoming. The purchaser wasMr. James MacKenzie, of Kansas City, Mo., Mr. James MacKenzie, of Kansas City, Mo.,
the representative of Scottish investors in Ahe representative of Scattish Enterprising buyers are fast learning that Thproved stock of cole completely cleans up Sunny Siope farm of range stuff and only leaves a few toppy bulls for this season's trade.
The Princeton herd of Poland-Chinas, owned by H. Davison \& Son, Princeton, Kas., enjoyed a splendid business last sea-
son, and with the new blood added and the son, and with the new blood added and the superiority of the stock for sale this year a big improvement of trade is anticipated, as the seventy-five spring pigs and the fall boar pigs are by far the best offering
Princeton herd has ever produced, and were sired by the following boars: Bus iness 11637 C., Princeton Chief 14545, by the famous Chief Tecumseh 2 d ; Dictator 2d 14065, by Dictator, he by Guy Wilkes 2 d and out of Lambing's Choice; dam Lula Wood burn, by Wood burn Medium; Upright Wilkes, by George Wilkes, and Riley Methe post of honor. He was by Equare Bus the post of honor. He was by square Bus
iness 23163 O . and out of Corwin Lass 65128 O., by Adam. He is a very large hog weighing over 700 pounds and measuring seventy-three inches around the heart in show trim. He has a very heavy bone, is right up on his feet, has a perfect disposition and has made a record both as a sire fairs last fall he was first in class ald fairs last fall he was first in class and these breeders were awarded the special prize offered for best display. The spring litters are very fine, uniform, well colored and well marked. Betsey Wilkes, a grand daughter of McWilkes, has a litter by Dictator 2d; Bonnie U. S., by Loyal Duke and out of Bonnie U. S., by old Black U. S., has a litter by Princeton Chief that unite the
Black U. S.-Chief Tecumseh 2d cross. Lady Fovorite 2d, one of the best brood sows, also has a litter by Princeton Chief; Daisy Dean 2d, by Imitation, by Black U. S., has a litter by Dictator 2 d ; Dolly K. 5th, a prize sow by Kerr's Tecumseh, has a litter by old Business. Other sows in the herd by such well-known boars as J. H. Sanders (the Columbian winner), Claud D, by boar), Hadley's Perfection, by One Price Wilkes by Guy Wilkes 2d, Kansas Chief by One Price, Premium Tecumseh, by King Perfection, O. K. 11731, Mnorish Pride, and others. Princeton Girl has seven by
Riley Medium, Black Daisy 4th has pigs by Business, White Ears 2d has pigs by PrinceBusiness,
ton Chief.

## Two Great Shows.

Of those who have succeeded in their business by making a specialty of it, none those eminent in the show business. In later years two names have stood out with especial prominence in the West because of the excellence, magnitude and variety of their displays. These are Forepaugh and
Sells, each of whose shows has from year Sells, each of whose shows has srom year
to year been greeted with packed tents as to year,been greeted with packed tents as
they have presented their entertainments of trained people and trained animals. united and will exhibit at Topeka, Monday, June 15. The combined shows are truly worth the time and money it costs to see them.
The method pursued by the Nickel Plate Rooad, by which its agents ifgure rates as quirements of the traveling public. No one should think of purchasing a ticket to Buf-
 write J. Y. Calahan, Gen'l. Agent, ${ }_{94} 11$
Adams street, Chicago, Ill.

## Ottawa Ohautauqua.

Tickets will be sold by the Missouri Pa ciffc, June 18 to 28, from Topeka at rate of trip to June 30. From all other stations in Kansas at rate of one fare for the round trip. Train leaves Topeka $8 \mathrm{a} . \mathrm{m}$.

Low Rates to Pittsburgh.
The North American Sangerbund will meet in Pittsburgh June 8 to 12 . Tickets will bes sold at ath B. \& O. ticket oftices on of June 6,7 and 8 , good for return passage until June 13. The rate from Chicago will other points. stations throughout the West and Northwest.
A through double dailly service of fast
vestibuled express trains run between Chivestibuled express trains run between Chicago and Pittsburgh.
Fior further information address $L$. A.
Allen, Asst' Gen'l Pass. Agent, B. \&
Chicago, Ill

Easily Done.
How easy it is to get a subscriber for the Kansas Farmer on some of its various combinations, when the merits rated by the following letter. Bless the man who lends his paper:
Entron KAMsA8 FARMRR:-I got a copy ou are sending your paper and the Semi Weekly Inter Occan for 81.35 . Please fin
nclosed that amount, for which send my address.
Preston, Pratt Co., Kas.
Vandalia-Pennsylvania Short Lines from St. Louis. Excursion tickets on sale June Union Station to Pittsburgh Union Station. For particulars address W. F. Brunner, A. G. P. Agent, St. Louis.
"Dead Easy" insecticide, as advertised y T. W. Southard, qgeral agent of the Western Chemical Co., Kansas City, Mo., or ridding poultry of lice and mites and hereby keeping them free from these ravages which cause poultry-raising to become
nproftable. Our readers need have no hesitation in ordering this insecticide.

Union Pacifio Ronte.
What you want is the through car serVice offered between Denver and Chicago
via the Union Pacific and Chicago \& Alton railroads, which is unexcelled by any other ine. Magniffcent Pullman sleepers, aining out change, Denver to Chicago via Kansas City.

## Millions of Gold

in sight at Cripple Creek, Colo. Only wenty-three hours from Topeka by the santa Fe Route, the only broad-gauge route
passing right by the "Anaconda", and all he famous mines. See the nearest Santa ie agent for all particulars, or write Geo. T. Nicholson, G. P. A., Chicago, Ill.,
or W. J. Black, A. G. P. A., Topeka, Kas.

People who wish to go to Buffalo to atend the N. E.A.convention, who want fast me, the most excellent tran service and superior accommodations, wil do well to chasing tickets. A fare of 918 for the ound trip will auply with $\$ 2$ added for membership fee. Tickets will be on sale July 5 and 6 with liberal return limit and with privilege of stop-over at Chautauqua Lake. Adaitional information cheerfully
given on application to J. Y. Calahan, General Agent, 111 Adams street, Chicago, Gil. 95 A Look Through South Missouri for Four Oents
The Kansas City, Fort Scott \& Memphis Railroad Company has just issued a magniffcent book of sixty or more photo-engraved views of varied scenery in south
Missouri. From these views an accurate knowledge can be obtained as to the pro-
ductions and general topography of that accions and general topography of ithat
highly-favored section that is now attract ing the attention of home-seekers and in The thite of the book is "Snap Shots in
South Missouri." It will be mailed upon receipt of postage, 4 cents. Address Kansas City, Mo

Republican Oonvention at St. Louis, via Burlington Route.
For the National Republican Convention at St. Louis, June 16th, 1896, excursion the "Burlington Route."
Ihis will be the greatest political gather
ing since the War. Preparations are being ing since the War. Preparations are being
made for entertainment on a grand scale scores of marching Clubs in uniform wil take part in Parades ; all the prominen Repubicans of the Country will be present
Write Major C. C. Rainwater, 910 Wash ington Ave. Chairman of Hotel and Board
ing House Committee, in regard to your ac ing House Con
Consult your Ticket Agent in regard to time and rates. L. W. WAKELEXY, Mo,
Gen. Pass. Agt., St. Louis, Mo,
Uniformed Attendants for Eastern Passen gers via Vandalia-Pennsylvania Lines. Uniformed Parcel Porters will, free of charge, look after the comfort of all arriv ing and departing passengers over the Van Passenger station and will accompany them Now York city and the American Line Pier, Sixth Avenue Elevated Railroad, and
the Central Railroad of New Jersey station also between Desbrosses street ferry, New
York city, and the Ninth Avenue Flevated Railroad. They will also meet Vandalia Pennsylvania Line trains at Philadelphia Broad street Passenger station and assist
passengers who may desire heir aid; take meet or rolling chairs when needed meet carriages and mate themselves gen in attendance from 6 a . m . until 12 mid night, and when accompanying passen
will carry parcels and hand baggage.

## Test of Separators


rewith find report of the test of Separators hed at my place in Hubbardton, April 22, 1896. The committee of 3 chosen from the 50 dairymen present decided that on the three points of amount per hour, general durability and ease of running, the Improved United States Separator was much superior. The periment Station. Eight tests of each were made at the station the average of the tests of each Separator being as follows No. 5 Imp . U. S., 0.11 of 1 per cent. of fat left in the skim-mik. Sharples,
De Laval "Baby," 0.23
0.30 So that in all points the Improved United States Separator was $\begin{array}{ll}\begin{array}{l}\text { decided to be superior." } \\ \text { Hubbardton, Vt., May 20, } 1896 .\end{array} & \text { C. A. ST. JOHN. }\end{array}$ Would you know more of this Separator and of this test? Write for catalogue and prices.

VERMONT FARM MACHINE CO., Bellows Falls, Vt.

## GreatFarmers' Supply Store

## WE SELL FARMERS DIRECT. TWINE $2 \cdots \cdots$ TWINE $0 \cdots \cdots$ TWINE

Pure White Sisal for 7 cents per pound, and we pay the freight to any railroad station in Kansas or Missouri.
Sections for all mowers, in lots of twenty-five, each 6 sents. Four and a half
Oot knife for any mower, $\$ 2.75$; five-foot, $\$ 3$; six-foot, $\$ 3.25$. $\begin{aligned} & \text { Everything else }\end{aligned}$ in proportion

THRESEIFRS, A SELF-FEEDER FOR $\$ 125$.
Send 4 cents in stamps for Supply Catalogue.
The Kansas City Machinery Coo, 1400 W. IOth, Kansas City, Mo.

## Homes for the Homeless

The opening of two Indian reservations in northeastern Utah to settlers opens up agricultural and stock-raising land for homeseekers.
The Uintah and Uncompahgre reservations are reached by the only direct route Park City. E. L. Lomix, G. P. \& T. A. Park City. E. L. Ly Lomax,

For the N. E. A. Meeting
at Buffalo, N. Y., July 7 to 11 , it will be of interest to teachers and their friends to
know that arrangements have been successfully accomplished by the Nickel Plate Rood providing for the saie of excursion tickets at 812 for the round trip with 82.2
added for membership fee. Tlikets will be on sale July 5 and 6 and liberal return limitso will be granted. For further information as to stop-overs, routes, time or
traing, etc.. adaress J. . Calahan Gen
Agent, 111 Adams street, Chicago, III. G93

Ho! for Oripple Oreek. Remember that the Chicago. Rock Island
\& Paciffc is tha only line runting directly
from the East to Colorado Springs, the nat from the East to Colorado Springs, the nat.
ural gateway for the Cripple Creek district. ural gateway for the Cripple Creek district,
Colorado Springs lies at the foot of Pike's Peak at its eastern base, and Cripple Creek is part way down the southwest slope o Pike's Peak and near its western base.
Two all rail routes from Colorad S Two all rail routes from Colorado Spring
are offered you. One by the Midland rail way up Ute Pass, via Summit, to Cripple
Creek. Another over the Denver $\&$ Rio Grande, via Pueblo ard Fliorence, to Cripple to this wonderful gold mining camp. Maps folders and rates on application. Addaress JNo. SEBAATIAN, Gen'1. Pass. Chicago.

## THE STRAY LIST.

FOR WEEK ENDING MAY 28, 1896 Cherokee county-T. W. Thomason; clerk.




 Johnson county-J. W. Thomas, clerk.



 FOR WEEK ENDING JUNE 4, 1896,
Allen county-James Wakefield, clerk.


 Cherokee county -T. W. Thomason, clerk.


 Sumner county-Chas. Sadier, clerk.

 FOR WEEK ENDING JUNE 11, 1896. Douglas county-Harry Dlokk, clerk.

 Cherokee county-T.W. Thomason, clerk.
 linte, sear on on Iltit tront toot, shod ant round






 Pottawatomie county-Frank Davis, clerk STEER-Taken up by T. F. Wells, in Shannon tp,
May 25, 1896, one black muley steer, 2 years old, Sheridan county-H. W. Percival, clerk. MARE-Taken up by R. M. Love, In Logan tp
one flea-biten gray mare, welght $\mathrm{i}, 000$ pounds, 13
 Shawnee county - Chas. T. McCabe, clerk. THREEE COWS-Taken up by D. F. Herring, in red, shellof right ear broken, branded 0 on rilght hip;
two spoted ows, dehorned, branded on right hip.
TWO CALVES-By same, two sprig milg TWO CALVES, By same, two spring male calves,
one spotted and one roan; value of five strays 856 . Dogs.




## Che Feterinarian.

You Will Save $\$ 1.50$ If you patronize the Nickel Plate raad Chicago to Cleveland and return on occasion of 23 mand 24 gi Cleveland, 0 . ets will be on sale at 88.50 for the round trip, June 21 and 22, available on all trains travel over the Nickel Plateroad\} Perfect service; luxurious sleepers; unexcelled
dining cars. For further information as to trains, etc., write J. Y. Calahan, General Agent, 111 Adams street, Chicago, III. 109

## Unequaled Service

Denver to Chicago via Kansas City is given via the UNI
\& Alton railways.
Through Pullman Sleepers, Pullman Dining Cars and Free Recilining Chair Cars leave Denver Daill. The Union Pacifcc is
the great through car line of the West Ask your nearest ticket agent for tickets via this line.

Gen. Pass. and Tlcket Agent,
$\qquad$
MARKET REPORTS.
Kanaas city live stock.
KAnsAs Cirr, June 8.-Cattle-Reoe!pts
 urday, 1,447 oattie, 288 oalves. The market was
steady to 100 lower and slow. The following steady
are representative sales:
 shieep-Recelpts, since Saturday, 2,704:
shiped. Saturay, 1,0 Tho. The market was
weak. Following are representative sales:
 Horses-Recelpts
shipped
Saturday, 43.
since
The
Saturday, shipen Saturaay, 4. The receipts have been
very light and not many buyers are in the coty.
The quality is somewhat better, but the offerings not up to the standard required by the eastern buyers as yet

Chricago, June 8,-Cattle-Reecelpts, 17,000; market steady to lower: fair to best beeves
83.354 .35 : stookers and
feeders, mixed sows and bulls, 81.40 4850 ; Texas, 82.50
$@_{230}$ Q3
Hogs.
Hogs-Recelpts, 36,000: market opened steady to 5 c higher: closed weak, advance mostly lost
light, $\$ 8.30$ an



 83.50@6.00; spring lambs, 83.50@a35.
st. Louls Llve stook.
ST. Lours, June 8. -Cattle-Receltpt, 8,000; market steady; native steers, ex 40 40.25; stookers and teeders, 82 25@s.00; Texas steers, 82.40
© 3.60
 83.00 3.25.

Sheep-Recetpts, $, 0,000$ : market steady.
Chtoago Graln and Proviston.
June 8. Opened High'st Low'st Closing

WOOLWe are now the largest receivers of of any'house in this market. A few years ago we commenced at the bottom of the ist but the year 1896 finds bus on top and QUICKER BALES and QUICKER RETURNS for wool than any house in this market. THAT'S OUR RECORD and we are going to keep it. Don't Dispose which will be sent you at once fre of charge. SACKS FURNISHED FREE.
SUMMERS, MORRISON \& CO., COMMISSION MERRAANTS,
74 S. Water 8t., CHICACO


## The Kansas City Stock Yards

are the most complete and commodious in the West, and second largest in the world, The entire railroad system of the West and Southwest centering at Kansas City has direct rail
facilities for receiving and reahipping stock.

| 3). | Cattle and oalven. | Hogs. | Bheop. | Horsen and mules. | Oars. |
| :---: | :---: | :---: | :---: | :---: | :---: |

## 




|  | , | maies. |
| :---: | :---: | :---: |
| 9,457,697 | 864.713 | 52,607 |
| $\begin{gathered} 2,170,827 \\ 1,876 \end{gathered}$ | $\begin{aligned} & \text { B67,015 } \\ & 111,415 \end{aligned}$ |  |
| 2,446,27202 | 748,2444 | 41,588 |

CHARCES: YARDAGB, Cattle, 25 cents per head; Hogs, 8 cents per head; Sheep, 5
NO YARDAGE CHARGED UNLESS THE STOCK IS SOLD OR WEIGHED.
 V. Prea. W. S. TOUGH \& SON, Managers HORSE AND MULE DEPARTMENT.


Live Stock Commission Company KANSAS OITY stOOK YARDS. Money loaned to responsible parties for feeding
purposes. Market reports free upon application. Consignments and correspondence solicited. stock-
ers and feeders bought on order.

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Kansas Clty, Mo. L. B. Andrews, Offlce
John Mofrett, Manager.
T.
S. Mortet, W. C. Lorimer, Cattle Salesmen. ep Salesman. MOFFETT BROS. \& ANDREWS Live Stock Commission Merchants. Feeders and stockers purchased on orders. Per-
sonal attention given to all consignments. References:- National Bank of Commerce, Kansas
City, Mo. Citizens' State Bank, Harper, Kas.; Bank of Klowa, Kiowa, Kas.
Rooms $67-68$ Live Stook Exch'ge, Kansas City, Mo

GROWERS OF AND DEALERS IN
Cattle, Hogs and Sheep
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Ben. L. Welch \& CO. COMMISSION MERCHANTS, STOOK YARDS, KANSAS OITY, MO And EAST ST. LOUIS, ILL.

Stockers and feeders bought on order. Liberal advances to the trade. Wrin
reports and special information


## The Apiary．

Conacted by A．H．Duf，Larned，Kas．to whom drairsea

## Bees in Box Hives．

Editor Apiary Department：－As I note you are an authority on bees， will ask for information，being a novice in apiculture．We have five colon we of bees in common boxes．How winage to transfer them to good mov－ manage to transier and when is the best time to do it？What are the best hives to use？We have plenty of alfalfa pasturage．
Palmyra，Kas．

Bees may be brought up to the high est type of perfection by simply thu transferring them from box－hives to movable－frame hives，and if they are the black，or native bees，an Italian queen may be introduced．Transferring can be done with much more ease，and with better results in the spring of ear，as at this time the ocoupants of the hive are few in number and the combs are light．It should be done at s time when the bees are gathering honey，as this enables them to do the work of patching up and repairing the combs more rapidly．We always aim to do our trangferring about the time fruit trees are in bloom，and a warm， fine day presents itself．
For doing this work you will need a ow tools，sid of course everything hould be in readiness，so that you can ay your hand on anything you want at moment＇s notice．A hammer，a cold－ a moments n－tooth saw，knife with long blade，a ball of hard twine，such as used or broom－making，a little brush of some kind for brushing the bees off the ombs－for this nothing is better than fow feathers from geese，or turkey wings（hair brushes will not answer in the absence of a regular bee－smoker）a few rolls of old cotton rags，and a trans－ forring－board．This is a board a little larger then the frame of your new hive， and assuming that your frame is the regular＂L＂frame，which is seventeen and tive－eighths inches long and nine and one－eighth inches deep，the trans ferring－board should beten by eighteen inches Nail strips of common lath on this board，the short way，half an inch apart from one end to the other；a wooden needle sout a foot long and small enough to pass through the half－ inch space between the lath，completes the outfit．

Take a roll of the rags and fire one end，and when well burning－do not allow it to blaze，but only to produce smoke－tip back the box－hive，and push the smoking rags under it；slip a block under to hold the hive in position， remove the smoke，and apply it again at intervals a number of times．In thus smoking them the bees will fil themselves with honey，and in this condition they will not sting you，ex－ cept by accident．After thoroughly smoking，then pick up the box－hive and set it a few feet to one side，with the bottom end up．Place the new hive on the old stand，in the identical same spot the old one stood，with the entrance in the same place，or as near as it can be placed；open the new hive and remove the frames，take them and the transferring－board to the box－hive， and blow in some more smoke．Now， with the hammer and chisel，cut the nails and take out two sides of the box； hammering thus will do no hurt，but have the same effect on the bees as smoking them．
Cut out the first comb and brush all the bees off，lay it on the transferring－ board，lay a frame on it and cut the size of the frame inside，so it will slip tightly into the frame，and if one comb is not large enough to and fit in all nice pieces of comb until the frame is full；then with the wooden needle insert the twine under the comb between the lath，draw up the twine and tie tightly over the two inches wide this will give you a tie every two inches on the frame． Unless the comb is in small pieces it is not necessary to use all the spaces． When the frame is completed place $i$ in the new hive，and all combs cut thereafter with adhering bees，they may be brushed off in the new hive

Proceed in like manner until all combs are thus fastened into the frames and placed in the new hive；then pick up the old box，with adhering bees，and shake them dow the may be gath－ see that all the bees hat may be gati－ ered in littie clusters anywhere are moved to the proper place．W e careful not to destroy or sil any oes that can bo a it all to the queen can be found it is well to cage er until the job is completed，when he may be liberated in the hive．Al fastenings may be taken off the frames n a few days，and，indeed，they must e taken off as soon as the bees fasten the combs，which they will do in hort time．
There are different methods of trans－ ferring，but I consider the above the best＂short cut＂plan for the beginner． The best hives in use to－day，and which are used by most leading bee－ keepers，are the＂Langstroth，＂which are termed＂L frame hives．＂＂Simplicity，＂ same goes by the
＂Dove－tailed，＂etc．

## Handling Bees．

If you are afraid of bees you will not get along with them very successiully， and the greater your fear is the less success you will have．The fear of bee stings undoubtedly keeps many from ongaging in bee culture．This reason to the practical apiarist appears very oolish indeed．You may say that bees will sting persons whether they are afraid of them or not．This may be true to some extent，but 1 am perfectly satisfied that fear causes 90 per cent．of all stings received．Almost the first question I ask a visitor to the apiary is，if he or she is afraid of bees．If they say＂no，＂I generally show them through the apiary without using pro－ tection．But if they say＂yes，＂then I know to use protection and get the bee veil and smoker．Now it is a very noticeable fact that the former class o persons seldom ever receive a sting while the latter rarely ever escape it Some very important points should always be observed by persons not fa－ miliar with bees when thus entering the apiary．On approaching a hive of bees，walk firmly but slowly．Allow your hands to hang by your side．Pass around to the side or back of the hive that the apiarist is opening Never place yourself in front o any hive of bees，to blockade their thoroughfare．They have the right o way in front，and no apiarist or any one else has any business there．This one mistake that personiarist mus all the，and of course the If he neglect this，the bees will notify them of the fact．Bees seem to take this intrusion as an insult，and I don＇t blame them for it in the least．Avoid all quick motions．If bees are flying about your head，stand as near motionless as you can；draw your hand to your face slowly，if you wish，adjust your hat or bonnet to afford you better protection Never point at a comb of bies with a quick motion．If you do，some of the bees will undertake to inspect your finger．
By thus conducting himself any one can succeed，not only in pussing through the apiary，but can get right down into hive of bees and handle them with impunity．Absence of fear，firmness， and careful handling，is the whole se－ ret to successful management of bees This is better than bee veils，smokers， rubber gloves，etc．

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