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ㅍ. ㅍ. AXIエINE,


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Agricultural fllatters．

## ALFALFA，OR LUOERN．

（Medicago sativa L．
［From Farmers＇Bulletin No．31，United States De
PREPARATION OF THE SOIL． A clean pdece of ground should be
selected，and it should be thoroughly plowed and subsolled．If the farmer has no subsolling plow，the best sub－ stitute is two turning plows，the one other The best results from this crop are obtained after the second year，be－ cause alfalfa does not reach maturity untll the third or fourth season．Hence the fleld selected should be one that can be kept in alfalfa for a number of years． The first cost of a deep and thorough preparation of the soll may seem large， but it must be remembered that the tings off the land each year for from three to thirty years．The primary ex pense of a thorough preparation is，in a sense，thus spread over a series there will be a greater yield from the land than in the case of the too common shallow cultivation．After plowing，
the field must be harrowed and rolled the fleld must be harrowed and rolled
several times，or until the seed bed Is perfectly smooth and mellow．

SOWING THE SEED
In the East and Northeast－Alfalfa should be sown in the spring，as soon as the ground is warm and there is no
further danger from hard frost．This usually is from about the middie of April to the middle of May．Young alfalfa plants are tender，and liable to
be injured by cold．The seed may be be injured by cold．The seed may be
sown elther broadcast or drilled．Drill－ sown either broadcast or driled．and a better stand can usually be obtained． twenty－five pounds of seed per acre may be used；if drilled，from fifteen to twenty pounds．When a permanent amount of seed is the best；but when the crop is to be raised for seed，a
smaller amount will suffice．To get a smaller amount will suffice． good quality of hay，the plants should the stems will be small and not woody but when a crop of seed is desired，they should be grown so far apart that，while covering the ground，they wind put forth the greatest number of flower
clusters．A clean field will require less seed than one that is very weedy
The most even stand is to be had by The most even stand is to be had by
drilling the seed and then harrowing the field lightly across the drill rows． Cover the seed very lightly；if sown
broadcast，a light harrow or a brush will be sufficient；or，if there is rain imme－ be necessary．A better stand will be obtained if the land is rolled after sow－ ing．In western New York the prac－
tice is to roll without harrowing．This presses the seed into the loose soil，
and covers it to a sufficient depth．On nurse crop．On clayey，cloddy soils barley is by some considered beneficial This practice is also to be recom－
mended when the field is liable to be very weedy．But it is really a waste o seed to sow alfalfa on foul land． young alfalfa plants are more tende choked out by weeds，or by the nurse and sufficient stand can not be counted on if the field is weedy，or if the seed
is sown like that of clover and timothy， is sown like that of clo
with some small grain．

Some farmers cut for hay the first season．This depends entirely upon the rapidity of growth during the first
summer．If the field is weedy th weeds must be mowed two or three times and raked off the fleld．This grow up and threaten to choke out the should be mowed early enough in the summer to keep the weeds from seed－
ing．If this is done，the alfalfa will soon take possession of the ground，and or grass until after the third from weed a good stand is secured and the fleld is not weedy，a small crop of hay ma sult of frequent cutting during the first season，the plants will form a good
root system and consequently make a better growth．The crop should not be year．The young plants will stand the rigorous cold of winter much better if least five leaves．In the preparation keep in mind the fact that alfalfa will yleld better the second year than the
the second；hence the advantage o enabling the crop to pass through the irst winter in good condition． In the south－Experiment and prac be obtained from good results may spring sowing．In the Southern State more depends upon the condition of the land than upon the alfalfa itself Farmers who have been successful with this hay crop agree，in the main，that he best stand and best yideld follow owing in drills，for enough apart to permit cultivation during the first sea
son．The Southern farmer must fight continuously against the many weedy rasses that spring up in his flelds，and hat will choke out the young culti－ vated plants if allowed to gain the uppe sh a field of alfalfa by sowing the seed roadcast，crab grass and foxtail are on hand to choke out the seedlings before hey can get fairly started，and it that a good stand can be obtained in this way．A sufficient stand can never be counted on．September and Feb uary are the two months which hav een found best for the sowing alfa．The seed should be drilled in the rate inches to two feet apart， at the rate of twenty to twenty－five
pounds of seed per acre．The stand must be thick enough to enable the nd weedy grasses which would other wise take possession of the field．A oon as the young plants are up high nough to mark the rows cultivation must be begun with a stirring plow or arse cultivator．Crab grass，foxtall， feld the first must be kept out of the weeds，such as dock，and wild onlon carefully de troyed．If the drill rows are kept clean and the soll is kept mellow by fre uent stirrings，the alfalfa will hav no difficulty in holding its own，and if cut often and not allowed to go to seed， field and keep ahead of the weeds．
As soon as the alraifa．is from twelve can be mowed，and from tha＇t time it nough．It is orten as grows hig plants get a good footing and develop gcod root systems the first season Alfalfa，when fully established，yields as much as six，eight，ten，twelve，
and sometimes sixteen tons of dry hay per acre per annum．The richer and oughly the soll has been prepared be－ fore sowing the seed，the larger wil Alfalfa in the South should follow some hoed crop，either cotton or corn， In sections where the cotton root ro is prevalent it is not advisable to plant
alfalfa in fields which lare infected alfalfa in fields which are infected
with this disease，for it is probable with the root rot of alfalfa is identica is sown upon land thus if the see crop will surely be lost．Turnips fed on the ground to sheep，or the long，
white Belgian carrots raised for horse or cattle feed，make a good crop to
precede alfalfa，especially if the ground has been carefully manured for them． manuring；no other fodder plant re－ mands more promptly to intensive to apply stable manure when preparing the ground．Such manure is always full of weed and grass seeds that have not been digested，and which are seed scattered naturally in the field．
To lertilize the balfalfa field with barnyard manure is to deliberately sow manure has been weed seeds．If the under shelter it will do，but not so well as though it had been applied to the previous crop，through the soil before the ground was plowed for alfalfa．A．dress－
ing of commercial fertilizers，compost or cotton－seed cake，cultivated in be－ tween the drills，will increase the yield top dressing of oll cake be applled just after the young plants have come
up，the growth will be stimulated and the yield be heavfier．Barnyard manure may be applied in the second autumn and in each year afterwards，because there will then be less danger of the is better to apply this dressing in au－
is being choked out by weeds．It tumn or early winter than in the spring， life of alfalfa in the South has not been definitely determined．The plant however，will last just as long as the neld can
proftable

With good care the yleld ought to much more than this－say a ton per acre at each cutting，
In cuttings each year ion and the midale Mountain re west．－Alfalfa is usually drilled or sown roadcast in spring as soon as the hard frost is past．It is best to sow without a nurse crop．Where the land is under ditch，the field should be ir－ igated before seeding，and never after
seeding until the young plants are at least six weeks old．The flants six weeks $r$ two months in the life of the plant is at this time very susceptible to any sudden changes of temperature or to ne land be irrigated directly after has been plowed and harrowed，the soll or the growth of the young plants， and no further irrigation will be re ished and the plants are less suscep－ tible to cold．The seed should be cov－ xceedin brush will be suffictent．Drilling is more economical，and a better stand is usually obtained．If the farmer has a press drill，it would be better to use
that；but care must be taken not to cover the seed too deep．If the rain，no harrowing or brushing will be necessary．In most of this West－
ern region where alfalfa is extensively grown rains can not be counted on． In many localities the average yearly
rainfall is very light，and this plan of rrigating the plowed field before the seed is in the
The field must be mowed and raked ff several times during the first season o prevent the weeds reseeding them－ up and threaten to smother the young alfalfa．To sow a field broadcast or to drill with a machine，from twenty
twenty－five or even thirty pounds seed per acre may be necessary to in sure a good stand．A better quality which thirty pounds of seed are used than from one on which only half stems become hard and woody if the plants are too far apart，and the hay palatable．There will be more waste in feeding to cattle or horses than if the surely will be thinner and softer，as they and there is a thicker stand．If the land is under ditch，water may be
turned on the field once or twice during the first summer，or oftener if needed． Lasd on which alfalfa is to succeed East．It is a mistaken idea that alfalfa fields must be kept continuously water－ soaked．The plant can not and wil ground water no＇t less than six or eight feet below the surface．The soll in which it most delights is dry and well drained，and if，in addition to these
qualities，the lay of the field is such that water can be turned on once or twice
during the hot，dry summer，the very best conditions for the growth of alfalfa will be attained．
In preparing the field great care must and mellow．If it is surface smooth gate，the land must be thoroughly lev－ eled，and this leveling process will be much facilitated if the field is irrigated
before the seed is planted．The high and low places will thus show them or filled up．It will pay to have the land perfectly smooth；more ground can be irrigated by one man in a day，and
the water can be put to more econom－ ical use．Deep plowing is necessary to obtain the best results．Alfalfa will grow，and has often been reported as
growing，on land the surface of which had been just lightly scratched；but heavy as when the ground has been thoroughly and deeply stirred for the reception of the seed．If the ground is
clayey or heavy，and has any tendency field should be harrowed as soon as the alfalfa is three or four inches high，so that this crust will be broken up．Such fairly well started，will not injure th stand．If the alfalfa is irrigated two the yee times the first season，to enable and form large roots，there is not much danger that it will winter－ kin．However，the field must not be ir ground is cold．More water is needed

## Well Satisfied with Ayer＇s Hair Vigor．

Nearly forty years ago，afte some weeks of sickness，my hai 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 dress n occasional appli

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## AYER＇S <br> Hair Vigor

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is sometimes grown without irrigation in such cases the success of the crop epends verý largely on the thorough ness with which the ground has been uire a larger quantity of water，bu less often，than stiffer，clayey ones If sown as soon as the ground becomes warm，the plants will rapidly develop deep roots，and when once well rooted
they will stand more dry weather than they will stand more dry
In Callfornia and the Southwest． Pulverize the soll to the depth of from the better．Twenty－five pounds of seed about the average ampunt to of see acre．Many farmers report fair result rom a less amount，say twelve to fif teen pounds per acre；but when such a
small amount of seed is sown the hay will be coarser，more woody，and les nutritious than when the larger mounts are used．The seed can b drilled in rows or cultivated or sown
broadcast．The itime of seeding varies much in practice，being any time from August to the middle of December or rom February to April．Good result will not follow seeding during the ho ary summer months，from May to July and August．Those who practice spring owing usually sow with oats or whea as a nurse crop，and elther cut or harvest the grain with a header，and immediately afterwards mow the stubble．If this method wed，one or two crops of hay can rop has been taken off．The value o a field of alfalfa depends largely upo he start which the crop makes the firs eason．Some farmers are liable to los ight of the advantage to be receive will hesitate to plant alealfa on accunt of not receiving cash returns the first It i crop and get a good stand than to get a rop of gratn and have a poor stand o alfalfa，resulting afrom so many of the plants being choked out．There is som ttle advantage，howe ar，in this sys s prevented；but the accompanyin small grain is liable to be just as in－ jurious ais a rank growth of useless used，the alfalfa should nurse cropp is he grain，and should be covered to the depth of not more than one inch with a light harrow or brush．Still better re－
sults will follow if the seed is rolled in after the oats or wheat have been har and small grain grow better，and a better stand is always around the the soil is pressed down done with seed，and this can best not winter－kill if it is not cut too late in the season
In some parts of Callfornta small birds is necessary to use more seed per acre than would otherwise be required．
Alfalfa grows better on land requiring
rrigation than on maturally molst soll, imply because the latter do not, as a ule, have good drainage.

## The Stock Interest.

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STEER-FEEDING EXPERTMENTS.
A Oomparison Between Pure-bred Short horns and Sorabs.
[The following account of the carefully and im
partilily conducted experiments of Prof. Georgeson partially conducted experiments of Prof. Georgeson
is taken from the lateet bulletlin of our Agrioultural ( Conttnued from
THE FATTENING PERIOD On November 1, 1894, the steers were put in the feed lot for final preparation for market. The plan was to feed the and under the conditions that steers are usually fed by farmers. The two lots were put in adjoining yards with open sheds for shelter. They were fed twice daily, between 7 and 8 in the morning and between 5 and 6 in the at all times. Salt was likewise kept within their reach constantly. The steers could, of course, not be fed individually, but records were made weekly of their individual welghts and gains. The record not only shows the usual fluctuation in weights, to which all cattle are subject, but it shows also in the Short-horns than in the scrubs During the first seven weeks all made rood gains and the Short-horns in particular, but from that time on the flucuation in their weekly gains is at times very great in individual steers. Thus, steer No. 3 shows a gain of fifty-nine pounds on January 10, and a loss of ninety-eight pounds on January 17, and of sixty pounds from the previous week's weight, but the week following he shows a gain of ninety-five pounās. That particular steer did, in fact, not do well from December 13 to February 7, during which period he lost a total of 125 pounds. Several others show more or less loss during the same period, par-Short-horns and No. 12 among the Short-horns and No. 12 among the gains during that period. This is attributed to the fact that wheat was their exclusive grain feed up to Jan-
uary 19; we then had to add some corn mary to the wheat to improve their sains.
FEED AND COST OF GAIN. The record shows the feed consumed by each lot weekly and the kind and cost of that feed, together with the cost of the gain. The original plan was to cut corn stalks for roughness; but al though they mader excellent gains on the wheat the first few weeks, by the end of December it became apparent that an exclusive wheat diet was not desirable. The plan was persisted in, however, until the 19th of January, when a little corn meal was added ito the ration. The next week the corn meal
was increased to one-fourth of the total grain ration, and this ratio was main tained untill the 21st of March, when, for one week, the feed consisted of equal parts of wheat and corn meal. On March 28 the wheat was reduced to one-fourth of the entire feed and the remaining three-fourths were corn meal and cottonseed meal, the cottonseed meal amounting to one pound per head riod, from April 4 to 11, the wheat was entirely withdrawn and the feed consisted of corn meal and two pounds of cottonseed meal daily per head. The wheat whas ground moderately fine, as was adso the porn meal, and all the feed was ted dry. While the ratios of wheas maintained for coth cottonseed meal two lots of steers did not eat the same
amoint: (The Short-horns consumed more than the scrubs.) Care was taken to give each lot what they would eat
up clean and no more. The amount fed dally was thus gauged by their appe tites.
The
The corn fodder was run through a cutter and cut in inch lengths, chiefly with a vilew to avold waste, It was
not a first-class article. It was withnot a first-class article, It was with-
ered by the drought before it produced any ears, and in this half-dry condition
it was cut and shocked. The stalks, consequently, were not large and woody as when the corn is matured, but the steers, nevertheless, did not eat them up
clean. They picked out the leaves and clean. They picked out the leaves and
top portions of the stalks and left the top portions
bits of butt.
The cost given for these feeds is their cost lald down at the station. The quality of hay in ordinary seasons.

LOT I.-SHORT-HORNS
Weekly account of cost of gain.

## Date.



Grain eaten, 15,172 pounds.
Total food eaten 27,267 pounds Average gain per head 325.16 pounds. Averag
Total cost of feed \$161.932.
Grain eaten per pound of gain 7.77 pounds.
Corn fodder eaten 12,095 pounds.
Total gain, 161 days, 1,951 pounds.
Average daily gain of lot 12.11 pounds. Average daily gain of lot 12.11 pounds.
Average cost per pound of gain, 8.30 Aents.
Average cost of feed per head $\$ 26.988$. Corn fodder eaten per pound of gain 6.20 pounds.

Total food eaten per pound of gain 13.97 pounds.

We see in the table an almost regular increase in the cost of the gain as the steer matures. In the case of the in the early part of the feeding period was remarkably low and the gain was
very rapid. By the end of the third very rapid. By the end of the third
week this lot had gained 528 pounds, Week this lot had gained 528 pounds, head at the cost of 3.65 cents per pound. By the close of the seventh week the cost had risen to nearly 5 cents per wound of gain. By the end of the tenth of gain, and from that time until the close of the feeding period the cost os-
cillates between $72-3$ and $82-3$ cents per pound of gain, and at the close, the
1,951 pounds gained by that lot had 1,951 pounds gained by
cost 8.3 cents per pound.
The scrubs present an equally interesting study in this respect. While steady and the cost of the gain is rather higher at the beginning and finishes up at the close of the period with a trifle higher cost per pound of gain than the Short-horns. The difference however, is only . 19 of a cent per pound At the close of the sixth week the cost per pound of gain is nearly the same
for both lots, that of the scrubs being for both lots, that of the scrubs being
a trifle higher, but from that time on until April 4 the scrubs made a cheaper gain per pound. The concluding week however, placed the Short-horns again a little ahead, as already noted.
The data are of interest beyond the
present case, inasmuch as they illus present case, inasmuch as they illustrate a principle in feeding which holds all mether all circumstances and under all kinds of feed, namely, that it takes more and more feed t produce a pound of gain as the coer matures and consequenty the gain will continue to increase gradually, subject, however to slight fluctuations, until the close of the feeding period. The summaries fo give the whole subject of the feeding
and its results in a nut-shell and furnish interesting data for comparison be-
tween the two lots. It is to be noted that the scrubs ate 8.76 pounds of grain horns mound of gain, whife the short pounds arein a pound of gain on the short-horns ate 6.20 pounds of fodder er pound po gain 20 pounst 3.93 pound per pound of gain,

LOT II.-SCRUBS.


Grain eaten 14,662 pounds.
Total food eaten 21,254 pounds. Average gain per head 279 pounds.
Avenage dally gain per head 1.731 pounds.
Total cost of feed $\$ 142.225$.
Grain eaten per pound of gain 8.76 pounds.
Corn fodder eaten 6,592 pounds.
Total gain, 161 days, 1,674 pounds. Average daily gain of lot 10.39 pounds. Avera
cents.
Average cost of feed per head $\$ 23.704$. Corn fodder eaten per pound of gain Total food eaten per pound of gain

### 12.69 pounds.

Showing the number of pounds grain and fodder eaten for each pound of gain at

| Date. | Lot I.-Short-horns. |  | Lot II,-Scrubs. |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Lbs. Grain <br> eaten par. <br> of gain. | Lbs. Fodder eaten per ib. of gain. | $\begin{aligned} & \text { Lbs. Grain } \\ & \text { eaten per } \\ & \text { of gain. } \end{aligned}$ | Lbs. Fodder eaten per tb. of gain. |
| November 8 | 1.22 | 2.79 | 2.85 | 4.53 |
| November 15. |  |  |  | ${ }_{4}^{5.14}$ |
| November 22. |  |  |  |  |
| November ${ }^{\text {December }} 6 . \ldots .$. | 3.59 | 5. | ${ }_{4}$ | 3.75 |
| December 13. | 3.62 | 4.86 | 4.20 | 3.37 |
| December 20 | 4.17 | 5.21 | 4.68 | 3.43 |
| December 27 | 5.07 | 5.84 | 5.60 | 3.79 |
| January 3. | 5.75 | ${ }_{5}^{5.36}$ | 5.88 | 3.40 |
| January 10 | 5.75 7.49 | 7.69 | 6.14 | ${ }^{3.46}$ |
| January 24. | 7.16 | 6.35 | 6.29 | 3.26 |
| January 31.. | 7.01 | 6.00 | ${ }^{6.62}$ | 3.33 |
| February 7 | ${ }_{716} 8.00$ |  | ${ }_{6}^{6.96}$ | 3.43 <br> 3.35 |
| February 14. |  | 5.66 5.53 | ${ }_{7.31}^{6.9}$ | 3.44 |
| February 28. | 7.56 | 5 | 7.18 | 3.34 |
| March 7... | 7.22 | 5.48 | 7.18 | 3.36 |
| March 14. | 7.91 | - $\begin{array}{r}6.06 \\ 6.06\end{array}$ | 7.65 | - $\begin{array}{r}3.66 \\ 3.57\end{array}$ |
| March 21. | 7.78 | 6.05 | 8.30 | 3.75 |
| April 4 | 8.13 | 6.33 | 8.23 | ${ }_{3} .66$ |
| April 11.... | 7.77 | 6.20 | 8.76 | - 3.93 |

Table V. has been worked out with a view to show the dncrease in the amount of feed required to make a pound of gain as the feeding progresses. especially when taken in connection with the when of the gain shown in the ast column of table IV. The table shows remarkable regularity in the case of lot II. There is an almost regular ncrease in the amount of grain re quired for each pound of gain from week to week through the entire period. The fodder, on the other hand, remains practicany constant. They ate the most but after the first three weeks the re lation of fodder consumed to gain $\mathbf{r}$ mained stationary. This is not the case with the Short-horns. They ate the least fodder at the outset and gradually increased the consumption until he close of the fattening period. Wit. the exception of that period in Jandary and the beginning of February, changed to retrogression, and they therefore, show a greater consumption for the gain made, the increase of fod der eaten is fairly regular from the beginning. The same is true of their Increase in the consumption of grain. The Interruption in January, in like manner, shows a marked increase in the disturbance to the even progress of this
ot in January can be traced to two possible causes, and probably both have a bearing on the case. In the first place, they began to scour violently, which diet. This affection caused them to get off their feed and resulted in severe losses in weight. In the second place part of January, from which they apparently suffered more than the scrubs, and which doubtless aided in preventing their rapid return to good appetite and normal gains. This is not necessarily proof that they were tenderer than the scrubs or more susceptible to the influence of climatic changes,
and yet the evidence points in that and yet the evidence points in that
direction. Taken in connection with direction. Taken in connection with can readily be kept too long becreasing the cost beyond proftable limits. Just when to market can not be shown by experiment. It ds a matter
to be gauged by the value of fat steers and the cost of feed, as well as the conhave sold better had they been marketed four weeks earlier. The gains they made during the last month did not compensate for the cost of the feed during that time. This is especially gained more slowly the scrubs, which horns. Moreover, the market price ranged higher at they would have realized as much then as when they were finally sold, even though their condition was not quite as good, and the feed eaten during the last month might have been saved.

SALE OF THE STEERS
The two lots were shipped to Kansas City stock yards on the evening of following day. The last welght re corded is the average of three weighdngs on three successive days. Th steers did not realize all that we ex-
pected they would bring. The Shorthorns not only averaged 245 pounds per head more than the scrubs, but owing to their better beef form they made a decidedly better appearance. At the last weighing at the station th Short-horns averaged 1,517 pounds pe head and the scrubs averaged 1,272 TABLE $V$. pounds per head. In spite of these differences, the buyer was inclined to put of his final judgment he picked the three heaviest Shott-horns-Nos. 1, 3, and 5and judged them to be worth $\$ 5.65$ per horns and all of the scrubs were sold at $\$ 4.65$ per hundred. In the judgment of the writer this price did not do justice to either lot. Two of the scrubs, -Nos. 12 and 13 , were particularly test which follows that No. 13 ranked with the best Short-horns in price of the cuts, but we had to accept his decould be done under the circe best that The financial results of the sale will be given later on.

Don't Tobacco Spit or Smoke Your Life Away.
s the truthful, startling title of al book about No-To-Bac, the harmless, guar anteed ltobacco habit cure that braces up nicotinized nerves, eliminates the nicotine poison, makes weak men gain strength, vigor and manhood. You run no physical or financial risk, as No-To Bac is sold by druggists everywhere funded. Book free. Address Sterling Remedy Co. New York or Ohicago.

## Jrrigation.




## Irrigation in Rice Oounty.

EDITOR KANSAS FARMER: I visited the irrigation plant of Mr . Mathews, southwest of Sterling, yes
terday.
He construoted a pond say
 boxed in, so as to keep out the sand, and set in four pos'ts, on which he has in grain elevators. His buckets are fastened on two two-inch rubber belts flling the bottom tight, lifting the water flume; then whe cups pass over in a flume; then the cups pase over a shait in bottom of pond, over a shaft acain and up, etc. I belleve he radsed over 300 gallons per minute. This pond is about twenty-five rods from the Arkansas river, so he has a heavy underflow, but he can pump it dry in an hour, an
will fill up in about the same time. will fill up in about the same time. As
his soll is nothing bue the drift of the hiver in years gone by, his water runs
river along in the coarse, sandy ditches. over his celery, peppers and cabbage dening suggested that he set his pump right into the river, which is always deed close to the bank, and as the river water is always very muddy, a sedinent would give body
prove it in time.

Irrigation is gaining favor again. During th of time that all this great valley will be irrigated from the Arkansas river.
Ii requires capital to do $1+$, but the Ii requires capital to do
chances are very favorable.
water is wasting into the oce corn is burning up on the banks of the river. It is nothing but the prejudic ple from applying it to their burning crops. The law is not in the way, and in the last two years there was lots of water in the season of growing crops.
Water taken from rivers, flowing direct into ditches, is the cheapest. If al who could or would use the water formed a company, and constructed a main ditch and laterals, ohargiug so for immediate construction of ditches and keeping them in repalrs, inirinis a man to attend to $i t$, etc., the cost would be very uittle. There is more water in the river now than is needed to isrigate the southern half of Rice county at the rate of twenty-five to thinty sections per day. Prof. A. A. Mills, of Utah Experimen Station, believes irrigation does pay not in a season like this, when prices bushel, if I do have five bushels more per acre than on unirrigated groind For fifty or seventy-five cents I can
not irrigate once. It will pay in a year of fallure, and as we can not tell what the future will bring, we must irrigat away our expense is thrown away. If sider myself very fortunate

Sterling, Kas., September 13

F. 13 .

## Action of Water in Soils,

Senator David Boyd, of Greeley, Colu gives the following amalysis of this ac
tion: face is solicited by two upposite forces the heat of the sun and gravity. The first gives rise to evaporization com-
bined with transpiration if vegetation covers the surface; the second, to verti cal descent, which becomes more or less dateral, according to the characte of the strata it meets in dits downwar down depends upon the relative puwer more or less favorable position from which either force acts. The action of gravity is practically constant, while that of the sun is variable.
whole mass, while the the depth of the whole mass, while the sun's action is a light rainfall or trrigation is all Hence a light rainfall or urrigation is all evappally runs off, or is absorbed by the surface. This gives rise to two kinds of run-off; that over the surface and that through the porous strata. The object of all irrigation is to afford the plan sufficient water for transpiration; else applied to the soll is waste, but necessary, as is that of heat energy
producing mechanical results by steam. The waste, so far as the needs of the plant are concerea, are and percolation into the strate below the reach of the oots of the plants.

Hence it whlll be.
ing plants, like alfalfa, can evail them selves of a larger proportion of water in the soll than shallow-rooting ones. Rainfalls that do not go deep enough to reach the roots of plants are or no
use except dt be to cool the surface use except it be to cool the surface
through absorption of heat by evaporation. A rain-fall
inch wdil scarcely wet an inch deep, and is in this climate all evaporated by the sunshine of one day. An inch of rainfall will wet a perfectly dry surface only four inches deep and will reach
the roots of but fed agricultural plants, the roots of but fed agricultural plants,
and observation on my part conflims and observation on my part conflirms
the view that it will practically ell be the view that it whi practically all be
evaporated in four days and will be of the roots \& but few agricultural plants, except used in connection with irriga-
"If the soll below is moist to the point reached by the rainfall, then it will indirectly add irrigation by supplying water to be evaporated instead of that
below, and thus continue the period below, and thus continue the period
during which the soll whil hold sufficient during which the soll whil hold sufficient
molsture for the roots of the growing plants. Hence, both reasoning and observation have confirmed in me the opinlon that drequent light irrigations she most wasteful use we can make of
water, for water evaporated from the surface is lost to the areas in the immediate vicinity where it has been used floating oft into remote and unknown atmospherlc regions, borne along by the accidental air current with which its
specific gravity mingles it. specific gravity mingles it. on the tion which gets below the reach of the roots is not lost for use to a leng thened system of irrigation, since for the most
part it returns to thel bed of the parent stream and may be used again on lower areas."

Stirring Soil in the Orohard.
Most varietles of trees put out surface
feeders and but one main tap-root. This shows that they are hunting for nour shment in the warm, dry surface soll, and need the heat and air to make them row. If you neglect to stir this surface ting the air and heat and simply tur ing the air and heat, and simply turn becomes dry and hard, you simply give the tree more molsture than is needed, and sour the sap, causing the fruit es small and of poor flavor.
In Callfornia, where the oldest and most experienced growers have had the best success in raising the largest and most cuscivation, ony irrigating decidu ough cultivation, only irrigating deciduThey keep the cultivator going almost hey keep the cultivator going almos plow shallow next to the trees and deeper in the center, after the heaviest of the winter rains are over, after which hey start the cultivator and keep the ground stirred and weeds down, not allowing the soil to bake or be
but keep it light and spongy.
The soll that ts kept stirred will be moist and spongy within two or three nches of the surface, while the irrigated on not cultivated will pack and become soggy and will soon bake and dry out
on top, so that, like the inebriate, the tree must have another drink soon or it begins $t$ weaken and thirst for more, until, with continued sprees of drink and no cultivation, it begins to sour and
gradually dies or becomes scrubby and gradually dies or becomes sorubby and
of no use to mankind and only a curse to itself. To get the largest and most
usclous fruits, cultivate well and deep irrigate only as often as seems necessary to keep the ground moist within two or thr
This is true with all varieties of deciduous fruits-peaches plums, lapples, pears, and the whole Hine, except that smail berries need more water
much cultivation as larger fruits. Now as regards root pruning. The roots as well as the tops of a fruit tree meed a certain amount of pruning to make the tree bear well. If allowed to go anl to pect to get a large regular crop of good ruilt. I do not believe in excessive pruning, but enough to keep al poor,
gainly branches cut a way and roots stirred
Hewltt.
Hewltt.
A practical arrigator says: "There is dolng a knack in irnilgating corn and and cultivated carefully, there will probably not be required any further irrigacorn cannot have a good irrigation at
the time the sllk appears, it it substantially wasting water by irrigating two ment of the ear is concerned. If the cultivation has been done by what is known as the level system, then with a
large single-shovel plow-a single IIster will answer-run a furrow miday between the cowss in which to run the water. When irrigating, the water must
be confined to the furrows, so that dt be confined to the furrows, so that dt
may not spread over the ground about nay nots spread over the ground about
the roots. If it does, injury will be done through baking, since it will be 4 mpussible to break up the baked crust about the roots of the growing plants without hand hoeing. The water soaking into the ground invm the furrow spread to the cach side of the furrow. As soon after watering as the soil is in proper condition a sultable implement should be used to the same time disturbing the corn monts as little as possible. One morn roots ing will be ample and should be done about the time the corn is in good
roasting-ear, filling up the furrows as before."

## Experience With Subsoiling.

EDITOR KANSAS FARMER:
You ask for results in subsoling
have had some experience in that line and am satisfled it is of great importance, as it commences at the right end of farming by putting the ground in the rain that falts for use of the crop I subsolled thirty acres for corn last spring to a depth of five inches below the plow, which I ran six inches deep, making a total depth of eleven inches. June, I ever knew, butt season, since June, I ever knew, but very dry up to
that time. I find the subsolling has let he water soak down from top, and we on land subsolled than where it was not subsoiled. The corn did not scald and turn red as ft did on ground not subsoiled.
I belleve the farmers all know the necessity of subsolling, but using the
subsollers that require an extra man and team to follow the other plow, makes it too expensive for the average bushels more corn on my subsolled land Had it been a dry season the difference would have been much greater. I think all land is much benefited by subsolling, but don't think best results are obtained by going too deep at first plow-
ng, bu't go down gradually, and at Ing, bu't go down gradually, and at
second plowing throw a part of the loose soil to top of ground. It dis also much easier and more cheaply done. My work was done on section 36, township 26, range 25 , east, and adjoining April, 1895. Then county, Kansas, in ther plow in each furrow. The land had been plowed several years-each year about six inches deep.

Garland, Bourbon Co., Kas.

## Some Subsoiling Experience.

EDITOR KANSAS FARMER
In your issue of August 21, y
information about subsolling.
I subsoiled last fall for potatoes, and this spring for garden and corn. I
went eighteen to twenty-four inches deep, every fourteen inches. The land was plowed abour followed with the with common
breaker.
In the potatoes, the good effects were noticeable lin the early crop, except in This furrow never produces anything here, but by once going through with the "redeemer" a bigger crop will re-
sult than in any other row. In an ordinary forty acres of corn, eighty rods square, there will be eleven to
twenty dead furrows. If forty yards apart, there will be eleven of them, and as nine rows of corn eighty rods long will take out one and two-ninths acres of corn in every forty acres, and if
the dead furrows are only twenty yards apart, two and one-half acres of corn.
One hour's work with 'three horses and a Perine "redeemer" will put these biggest yield in the field or a difference of fifty-five to one hundred and ten porty acres, which, $\$ 27.50$, without any extra

## Shoe- and

harness-leather wear long, do not crack, at a harness- or shoe-store, 25 c a halfpint to $\$ 1.25$ a gallon ; book "How to
Take Care of Leather," and swob, both free; use enough to find out; if you don't like it, take the can back and get your mone
Sold only in cans, to make sure of fair dealing
everywhere-handy cans. Best oil for farm machinery also. If you can't find it, write to

VACUUM OIL COMPANY, Rochester,

trouble, except to husk st . Is there anything else on the farm that will pay $\$ 13$ to $\$ 30$ for an hour's work? Isn't there a screw loose in those dead fur-
rows? Is it possible that a man can afford such a loss?
My Early Ohio potatoes in the dead furrow were much the best crop. The late potatoes have not yet been dug, such an enormous growth as to give the soll the appearance of bottom land, and no doub't the subsoling of the upland gives it the character of bottom land. In my garden stuff, subsoliIng proved to be of immense value. I had one field that has an acre of hard-pan in it tha't has never produced this ying and the crop is seasons, untl as anywhere subsolling and our slow rains has kept this ground from running together, and the corn will make fifty bushels per acre on this worthless Iand. One ca
solled for $\$ 1$ per acre.
the spring over it, throwing it in ridges, then harrow these fine, lengthwise, then with two big horses, straddle them and run deep, and in the open crack put sweet potatoes, peanuts, tomatoes, cabbage, etc., and see the benefits of this plow. One does not have to chop up the earth with a mattock to get the sweet potatoes in these rows. I firmly belleve one more crop of clover can be cut on subsoiled ground than on any other.
CLARENOE J. NORTON.
Morantown, Kas., September 1.

## Making History

The old land-marks of the Pilgrim fathers are fast disappearing to make way
for modern ideas of architecture. There are very few of the old homsteads pre-
served in their quaintness and original
furnishing have found their way int-o the hands of
dealers in antique furniture and odditles
竍 or have been divided among relatives
and scattered to the four corners of the Another century will find a different
class of heirlooms. Most people will class of heiriooms. sost people wil
have a World
of Farir souvenir just as we and straight-backed chairs.
The World's Fair Soons are
the daintiest, most compact and lasting reminder one can have of the great fair.
There are six to the set, each one show-
ing a different builidng. The small sum asked, 99 cents for the set of six, places
them within the reach of any one. The
Leonard Mig. Co., 152-153 Michigan Ave Chicago, is the only concern that has
these spoons. See advertisement in this
issue only.

## Old Mexico.

Modern Mexico is a beautifully illustrated monthly journal, published in the English language, and devoted to the interests of Mexico. Send 10 cents for sample copy.
Address Modern Mexico Publishing Co Topeka, Kas. Mention Kansas Farmer.

Exoursions to Sonth Missouri and Arkansas. On September 10 and 24 the Kansas City, will sell round-trip home-seekers' tickets to points in south Missouri and Arkansas a rate of one fare. Tickets limited to twenty days for return. Good via main line or termediate stations south of and including Harrisonville and Fort Scott. J.
wood, G. P. A., Kansas City, Mo.
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IRRIGATION.
WEBER GASOLINE EIGIINE E.
power per hour.
aracourses
and

## 

Cossip Abont Stook. The dispersion sale of Hoisteln- Frrieslan
 date, 18 Octothorr 1 Get e catal
select what you want to old on.
Any of our readers desiring information about dehorning cattle will recelve the reint agricultural stations, aliso considerable other matter. relating, to the subject, by
writing A. C. Brosius, Cochranvilie, Pa. Kansas has produced a thousand-dollar hat J. H. Sayles of Noroatur, Kame. has Pertection. He goes to an Eastern breaer, whose name we have not yet
loarred. His dam Tis Tecumsen Lightroot
by Second Tecumseh We by Second Tecumsen. We hope to have
further particulare regarding this notable
Kansas same by the time he reaches the Kansas sale by the time
 making inquiry for sharosphrire rams, alconting their advertisement has been some time.
We trust
chat readers. who hame stock of thls kind for get some benefts from the present demand, On October 29 there will be a pub-
 Hoosier Boy 2 a, one of the best breeders
in the State. .he sale will be from the
herds or Kirkpatrick \& Son, Connors, Kas.
 bull, Royal Buccaneer, to Mr. J. A. Ale Shal.
hammer. darryman, or osawatome. Kas.
This young bull is the get of Imp. Buc-
 Pr Romiord Priae, and sired by Jno. B. Thompson's boar, Champlon 22761 (1m-
 and ont of. one brood Row by Hoce, Bhe by Black Prnce
II

 wall bige hare doing from finer, on. Yo. You may
may that I am laymg a foundation herd of say that am as, the best to be had, and
Poland-chinas and
that $T$ will be in the procession next spring with chote pliss from both herds. I have
quite no nuber of Model King pitg that
wwil suit anyone, and will be sold cheap to make room for winter.'
Walter Latimer, of Garnett, Kas, sold
thirty-nine head of thoroughbred Poland-thirty-nine head of thoroughbred Poland-
Chinas by dispersion sale on the 6th of
 animals, from his Hillhurst herd. Circumstances over \#hich iechasers from be-
kept many intending purchan
ing present. Rain began falling about
 kept raining, more or less, the balance on
the day. Notwithstanding the many hindrances, the sale went along at ratr
prices and gave general satisfoction The mertable Tecumsen J. Corwin 10744 was
retained to continue at the head of his






Kansas men whil, nio doubt, in the near future regret that they did not take more of the prizes than they dud. The tup of the registered cattie was taken by N. E. Mosher, of Sallsbury, Mo., for which he pald $\$ 182.50$. The anima was Sliema 24378, bred by T. Rogers, Dilwyn, Eng., calved January, 1894. The
sires and dams of this cow were of the familly that Lord Willton sprang from, in fact the Iord Wilton blood is prominent in all the animials bred by $T$. Rogers, and Mr. Mosher may conslder himself proud of his judgment in not allowing this animal to escape. Texas was well represented at the sale, and the Texas men took a majority of the prizes. Wm. Powell, of Chaning, Tex.
secured the head of the herd, Alderdyc 41431. This bull is 5 years old and right in the prime of his ufe. In fact the Wiser ranch is liberally dotted with his offspring and mainy good animels from Alderdyce will find homes in Kan sas, Texas and Missourl. Mr. Powel also purchased twenty-four bull calve at $\$ 30$ a head, which was, all things P. Doyle, of Higgins, Tex., also pur
Hood price for the catte chased twenty-two bull calves at the same price, and three bull calves under 1 year uld, out of Alderdyce, that he patd on an average of $\$ 90$ for. Mr. Doyle
the sale, and many a more timid man consldered himself safe when he was the

"KEYSTONE" CORN HUSKER AND FODDER SHREDDER - MANUFACTURED BY KEYSTONE MANUFACTURING COMPANY, STERLING, ILLINOIS.

\$36; three of her plgs brought s44, Fan-



 hogs were raily worth, he feels glad to
hnow that his customers recelved a bor-
kain in each and every purchase. Those gain in each and every purchase Those
Jho failec to tot to the sie shoul bear
in mind that Mr. Latimer reservea a


## A Great Sale of Herefords.

We are indebted to Mr. G. H. Beasley for the following report of the Wiser Kansas, consisting of 600 head of
Kind pure-bred and grade Hereford cattle. The sale was remarkable for several reasons, prominent among which was
the efficlentl manner in which the cattle the efficientl manner in which the cattle
were haindled and supplled to the aucwere handted and supplied to the auc-
tioneer. Being very wild, they were handled in an unexpectedly short time The sale was also remarkable for the
cleanness, there being no by-bldaing, and no complaints were heard from the bidaers. Taking all in all, the whol
sale reflectis Messrs. Wiser and Col. Wods. It was undoubtedly handled in an expeditious manner by Col. Woods, and he considers It the best sale the ever made.
The cattle that brought the highest
prloes went out of Kansas, and the
competitor of the Texas men. Probably the best bunch of cattle sold was the herd of 2 -year-old steers bought by G. W. Newman, of Emporia, Kas., a $\$ 49.55$ a head. And the steadfast man ner in which this gentleman bid un these steers bred consternation to man more timid bldders who would hav nelly, of W. R. Clemants \& Co. Ama rilla, Texas, laid in a supply of regis tered cows, and was probably the larges bidder of registered cows present.
There were sixity-five helfer calves
that avraged from $\$ 25$ to $\$ 30$ a head that avraged from $\$ 25$ to $\$ 30$ a head a head; fifty yearling steers that went with $\$ 34,75$ a head. The registered cow $\$ 150$ to $\$ 275$ aplece. The yearlung thor oughbred bulls will average $\$ 96$ a head In fact, the prices received were a surprise to nearly every one present and this sale may be considered as an they should not soon forget. In fact we heard the remark at the sale that many would have bought had the price were very sorry to see the local farmers allow the best cattle to go out of the
State, for we know, without questlon that the time is not far distant when they will realize what they have lost. The cows were all safe in calf to the
best bulls on the farm, and in many cases men were bldaing on three head cases men were bidaing on three head
instead of two. Many calves were sold
by their mother's sllde for more money by their mothers side for more money
than was bld on the mothet, thus showting, as Col. Woods very impressively re molds were worth more than the molds themselves."

## Of Unusual Interest.

## Unusual interest attaches this season

 o the handiling of the corn crop, because of the shortage of the hay crop, and beause the corn crop is large. But the this country the moat valuable agrt cultural lesson 生 has ever learned, and ne that has already revolutionized mat ers in many places. That lesson is the value of conn fodder, when properly prepared and handled.The era of the self-binding Corn Har vester and of the Corn Husker and Fod der Shredder has arrived. The hay ow grown on the same stalk with the name for the fodder as prepared by the "Keystone" Corn Husker and Fodder shredder. This machine makes but one ob of the whole thing after the corn is cured in the shock. Hauled directly from field to the machine at the barn, the staiks are fed to the machine which snaps off the ears and husks them and at the same ume crushes the staik. and shreds them almost as nee as has or crlb and the corn-hay into the batn mow or shed, or stack. This shredded fodder or corn-hay, has no sharp edges, can be handled with a pitchfork, like hay, and can be baled and shipped ike hay. It occupies only one-halr the space, or less, of whole foder. All is in a place to be fed without trouble or discomfort in bad weather, which is much better than prying loose the stormy days. The fillds are cleared and ready for the plow for pleasant fall weather or early spring.
Experlence proves that there is no dif ficulty in keeping the fodder perfectly, and for any length of time, when it is put up properly.
The shortage of the hay crop gives no inconventence whatever where thls machine has been used. Hundreds are in
use, from Minnesota and North Dakota to Tennessee and North Carolina, and from eastern Massachusetts, to western Nebraska and Kansas.
We cannot give here a full description of thls machine, which is fast relegating hand husking to the past and which has shown that properiy shredded fod der will pay all interested to sen the very interesting catalogue called "The Great Leak on the Farm"" which may be had free by addressing the manmay be had
ufacturers, The Keystone MIg. Co., or Sterling, IIl.

## (5A) <br> Rast  

 5/A BAKER BLANKET. Manchavo worn tritioninale wm. Arkes \& sons, Philadelphia. LZL

THE MOST SUCCESSFUL REMEDY
 KENDALL'S SPAVII CURE

 KENDALL'S SPAVIII CURE








## Che £ome Circle.



## A SEPTEMBER IDYL.

A brown mald crossed the hills, one day, "The summer has come and passed eway The months were lle weeks, the weeks as The buas an

What metter if loms are dust and A lad in the valley heard the sweet song,
And answered the words of the "No wald: could be heavy, no sorrows No weeks co
And be long,
$\qquad$
As the lad and the malden journeyed tha
day ast as the sun went downn
met, for their paths both ied
 And ine inswered him sotty: "With you And they nevermore Journeyed A day-dream.
Between two rippled fillds of grain-

And down the lane is cool and sweet; Above the arohing branches meat,
 And through the warm and allepy alr
Come tant, hail-fancled
sounas,
 I ayy "they come"." for since, with you,

That bars of sunkght always lay
 And so 1 almays see you stand-
 Because of tou see, han tand hand hare
You and the summe thares
Chares B. Goring.

GRANDMOTHER'S IDEA ON BLOOD. Some men will tell you that our that circulate in our veins, while som women will have the presumption to tell you that blood is made pure by the food you eat and the manner in which it is cooked, the ventilation of your kitchen, etc. Others will tell you that it is the poisonous evaporation that arises from the filth that is found in our isurroundings that destroys the ln his or her turn may write a most ele thant orticle on blood, and yet not exhaust the subjec
But when Peter asked the Master about the matter, He wound him up with a very short sermon. "Peter,",
said He, "art thou ignorant of these said He, "art thou ignorant of these
things also? Dost thoi not know that what goeth into the mouth defleth not the man, but that which cometh out of the mouth deflieth the man?" will speak. Hence the heart is the great reservoir of our soul. It is the refning machine of our mortal bodies, and when our food is turned into blood and passes into that great reservoir, if it has been cleansed by blood of the Lamb-if that great refining machine of our mortal bodies is in perfect workng and pass on its mission with lifeliving power. But if it is contaminated with sin and disease, it is unable to do its mission as a purifier and the blood passes into our bodies in an impure state, taking all the life-giving power out of it, leaving it dull and stupid. The only way to improve the blood and elevate the human race is to have our hearts cleansed by the almighty
power of the Living God. Let us be power of the Living God. Let us be are told that as our hearts are so are we. We are also told that we shall see the fruits of our thoughts. As our hearts are, so are our thoughts; hence, if our hearts are cleansed our thoughts will be right and our blood Liberal, Kas.

## THE MOHAWK VALLEY.

0 , sweet ise gide vale where the Mohawk gentis On its cleas winding way to the sea,
And dearer than all storied streams Is this bright rolling river to me." Thus sang the poet Eliott, and his song Tale," has resounded Belle of the Mohawk hall," has resounded through parior and will fll the hearts of the unborn. But the hapsody of the valley is yet to be written. Heme sonl more great than ohance or fate Has builded yet for man
And all the pipes of Pan, And pour a strain wlth sweet Caught up by tanefal throats, ill o'er the plain, from main to main, Mankind shailser sing and humming bees Shall falter by the way, And parling stream with glanoe and gleam Shall loiter in its play,
the bare nd beg of him with ey His mnsio's matohless key,
This historic valley is called the "Farmer's Paradise," and not inaptly. As one rides through this rich, broad valley, skirted by hills and baby mountains on ither side, with the Mohawk river sweeping down the center aisle, he is flled with he gladness of existence. Almost since been the home of the most thrifty and prosperous pastoral people in America, and that means the most prosperous on the planet. Fine farms in perfect tilth; fine herds in splendid condition; fine houses, painted and polished; fine barns filled to bursting; fine schools and churches and rillages; fine scenery; fine roads; fine horses and carriages; houses paid for and money in bank, and che greatest cley on these antinent and ife in this great valley.
In pre-colonial times, the six Indian nalons of Revolutionary fame and infamy, clashed and contended with one another or supremacy in this valley that was named after the Mohawks, at one time the most powerful of the aborigines in all that great stretch of country, and very naturpredominance lasted. When Holland took America, the Dutch took the Mohawk valley, and they and their descendants have substantially kept what they took from hat day to this, and it would require a large park of cannons or a large pile of guilders to oust them. They know a good thing when they see it. Here, during the Revolution, Great Britain sought by strugarmies, and in the same valley Washington found sustenance and recruits that contributed largely to the success of the colonies against the common foe. Within this valley and its tributaries were fought many of the dominating battles of the Revolution, so that it is truly a
great commonwealth.
No commonwealth.
No finer rural scenery greets the eye of Mohawk and Hudson rivers for a hundred miles westward over the great four-tracked New York Central railroad, and its almost continuous contiguity of towns and villages, crowded with sacred and heroic memories of our forefathers in their struggle for that world as the best example on ofer the the mohawk vale.
Above the gleam of seaward
The ships of Cloudland sail,
The ships of Cloudland sail,
Flows down thow the Mohawk vale.
There morning sun, with
Thrille all the vale astir
And olouds in love cling olose above
There moonbeams fall on tree and wall, The belting zones of storm-brow That farm from farm divide.
There lifting pines fling back the lines Of happy human song,
And warbling throats repeat the notes
And all their joys prolong And all their joys prolong.
By fields of waving corn, Where meadow lark from dawn till dark
There mallein stalk that yearns to talk To finch and jay that wing their Above green bannered trees.
There cowelips hold fair urne of gold Above the meadows' green, And lily burns, 'mid fronded ferns,
Through summer's ahine and shen.

For standing room to smile and bloom The daisies bend in prayer,
And alder bows to pay its vows
With weeplng osier there.
There clust'ring shrab and cedar scrub With shumac all aflame, And chestnut bur, with life astl
Proclaim their Master's name
White-shafted birch, where song birds perch
To woo the neesting mate,
And towering beech suoh sermons preach And towering beeoh suoh s

Highest of all in Leavening Power.-Latest U.S. Gov't Report

## Royal Baking Powder ABSDLUTELY PURE

There linden pours its:honeyed atores
To maltitudes that trive There induastry makes desting Within the teeming hive.

While round eaoh door and ev
The clinging tendrils climb, The clinging tendrils olimb, Than orchards in their prime

There village green fronts village green Where onee the Sagamore Drank nature's wine and trained her vine

Men tell the talo that in this vale That haman foe, Bargoyne, His hireling ranks to join.
There in the wood wild nat Six nation's all save one,
n ambush stood in covering wood
Till murder's work was done
Great Britain laid that ambuscade,
The troops came in, and then,
The troops came in, and then, With savage yell, red de
On unsuappeoting men.
And far and near the axe and spear
Anddeadly riffe ball

## Nor chose 'twixt one and all

The arrow's flight, the stroke of might. The rushing tomahawk, Hearse-throated cannon's talk,
And wild despair filled all the a
Resounding o'er the plain,
While mirder leap't from heap to heap
Of white and red men slain.
In that wild storm, one towering form Pressed on with sword and spar, Saltation's king! who else could fing

Where fcemen met the swamp

## While down the vale swalled

And death's vermilion flood.
Long years have past since that wild blast And lightning's flash and thunder's crash Went roaring down the vale

## Now, peace to thee, thy sons are fre Oh, glorious Mohawk vale!

True as fine gold thy sons of old
Henky $\mathbf{W}$. Roby, M. D.

## SUMMER FANOY WORK.

## A Novelty Which Produces a Goed Efrect

 with Little LaborA novelty in fancy work, which is quickly done and is not expensive, and produces a very good effect with very The labor.
This work can be used for pincushons, mats, handkerchief sachets, and required in the blending of only being required in the blending of colors, and material as a foundation a suitable bon. After cutting a lining of silk, or

any other material, the shape you de sire, the next thing is to tack alternate as close together as possible, beginning at the top of the lining, and cutting the ribbon off into length as you finish each row. Then commence to darn the two-colored ribbons in and out, over the dark and under the light one way, and reversing the order in the next pretty handkeruhief sachet could be pretty handuer hiof sibbe cond all made of bluo satin ribon and silver would of the sall in black. sitin ribpers and pook 1 pretty placrahin and gold braid. A pretty pincushion bon_all. one.colorw.with trimmings of
lace and bows at the corners. A large bag would be effective with tartan and black ribbon for the bottom part, and plaid at the top, finishing off with cord plaid at the top, inishing ofrings.
The sachet in the sketch is made of blue satin ribbon and silver braid. Four corners form the front, and the back could be plain, or to match the front, according to taste. Each corner should be bound with ribbon, and a hook and loop should be placed under the bow. A frill of lace goes all round and bows trjm the corners.-St. Louis Republic.

Dainty Linen for Dainty Women
No dainty woman will ever make her tablecloths and napkins by machine, but will sew them by hand with the neatest, finest stitches of which she is capable, finishing the ends of the hem with care. Napkins should have the narrowest hems possible, done with short, even stitches, and the family initial embroidered in the corner, in white only. Some women prefer to mark napkins near the selvedge, half way from each hemmed end. This en
ables one to fold the napkins fancifully ables one to fold the napkins fancifully
and displays the embroidery to great advantage. In addition to the napkins advantage. Ine aditle doylies which are there are the little doylies which are
under finger bowls. These are exunder fremgely pretty if simply scalloped in white cotton around the edges. A sim ple letter in the center is sometimes used.

How to Get Rid of Fies.
The following plan of ridding the kitchen and dining-room of flies is a good one: Take a small stove shovel heat it red-hot, and porbolic acid, having previously closed the doors and windows. In a few minutes open the room and the flies will be found to have entirely dis appeared Only a faint odor of the fumes of carbolic acid will remain.

To Restore Bleaohed Hair
Hair that has been bleached by the ase of peroxide of hydrogen will return to its natural color when the use o the peroxide is discontinued, but the change will be very gradual. Frequent washes will hasten the process.

To prevent the hardening of the sub ultaneous tissues of the scalp and the bliteration or the hair follcles, whic oause
newer.
ORGANS wo PIANOS
Moats-Brownell • Piano o Co.
009 Walnut St., KANSAS CIT
whertern AgENTS FOR
FARRAND \& VOTEY ORGANS,
The best organ manufactured, at a reasonable
price. Guaranteed for six years.
Easy terms.
Hallett \& Davis, Schaffer and Stodart Pianos

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Write for catalogue and prices.
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A CHANCE TO MAKE MONEY.

## 







Che Houng folfis.

## Written for Kansas Farmer,

Oh, the stream of itime, with its ceaseless Comes dow
Where ages back upon ages go
Where Nature hides from the vlew of man, Where Earth and Tide and Time began To work their parts in the wond
That shall end in eternity.
Man's puny nations rdse and fall But Time sweeps on and burkes
Beneath lts flood; beyond recall They sink to rise no more Human passions and human pride All sink from sight in the murky tide, On to the farther shore. Herole deeds and lives sublime Pletures of beauty and gems of rhyme,
Come floating down on stream of time From ages past and gone
There are relics of war and em There are rellics of war and emblems of Ruins of Tyre and statues of Greece, pher's stone and golden fleec
And wreck of the Parthenon.
There are flashing swords and a broken spear,
Weapons of
Mystic symbene and banners quee Brought and slgns appear, There are m
Burled Image and fossil bone-
Buried Image and fossil bone-
All swept down from the great unknown
Where the river has its head.
Oh, our hearts grow old, our heads turn Oh, our h,
gray,
For we our For we ourselves are drifting away
Into the Night that follows the Day And out on the sllent sea, Where the hand that gulded Noah's ar Must take the helm of our fragile bark,
And guide ats course o'er the waters dark, Into Eternity.
Ellsworth, Kas.

## thieving blue jays.

## A Family of Three Bring Sorro

Samuels, the Massachusetts ornithologist, in one of his books tells a story of a blue jay and a bit of soap. It was the last piece of soap that a collecting party in the Adirondack wilds possessed, and when the theft was committed by the bird the action was noted carefully for more than scientific reasons. Bird students know that the jay will take ulmost anything in sight and eat nine-tenths of what he takes, but they thought he drew the line at soap. It has been left to a family of Highland Park (III.) Jays to bear out Samrecord.
On the west side of the track in that Chicago suburb lives a German who thought that he would try the experiment of making soap for sale. He col lectad ther stirred them to the constituency of peaste, and then just at evening he patted a cake and put it on a board in his yard to see if it would harden over night. He slept a little late and when he finally went to look at his soap cake, behold! it had all vanished save thin edge. That was beautifully hard, though, and not stopping to conecture what had become of the rest o the cake he stirred up the rest of his mixture and patted cakes until he had wenty-four, each weighing one-quar er of a pound. The sun had passed behind the heavy oaks in the yard, so he German went to the edge of the road, placed his board so that its ends rested on two barrels, and put thereon his soap cakes that they might harden. A cement sidewalk was in process of construction across the road and a boat full of Portland cement mixed o mush with water and torpedo and, was adjacent and parallel to the oark and its load of cakes. The sideand contractor was across the with him. His back was turned on his sticky product, taking advantage of which fact, for this bird is sharpfamily of seven blue fays, five full fledged young and the two parents, descended on the board and attacked the soap. The contractor saw them and watched in amazement. They devoured the mixture of lye and grease as a donkey devours thistles. Then the sidewalk man gasped out: "Hans, they are eating your soap."
The German turned, saw the last bls of one cake disappear, and then grabbed lake casto up and throwith as a pan
"puts" a shot, straight at the robbers. The birds rose, calling "thief, thief!" vociferously, for the bluejay is given to calling himself names. The stone landed on the edge of the board and turned the entire soap product into the sticky mass of Portland c
and cement were ruined
The jays did not stop to decide which was the madder of the men, but made their way toward the Ravine drive, loudly calling "Thiefl" as they went. -Chicago Tribune.

STRANGE FRIENDSHIPS.

## A Pot Cat and a Canary Bird

Cats learn all sorts of antics and sometimes form contradictory attachments, young, birds mice and puppies being the peculiar objects of affection. A story is told from authentic souroes about a lady who had a pet canary and an equally well-beloved cat. When alone she allowed the former to fly about the room. Chance discovered that pussy was as fond of the canary as herself; for, to her surprise, one morning she entered the room to find that the bird had escaped and was perched on the body of the cat, who was apparently delighted. The bird seemed o have no fear, and after that the two pets were devoted companions. their pin dh
 ble growh, and, seliag the birdin he mouth, leaped on thell to non. Hel size hor hair stood on her eyes were as big as four ordingry cats' eyes. The bird was given up for lost. The secret was this: A strange cat had entered the room, and it was for the preservation of the bird that the cat had seized him, and as soon as the intruder was driven away she set the prisoner at liberty.

- Another liberty

Another author tells the story of a
cat and dog friendship. These antipathetic creatures by nature grew so unnaturally fond of each other that they were never willingly asunder. Whenever the one had a choice morsel of food he was sure to divide it with the other. They ate out of the same plate, slept in the same bed, and took walks together. Wishing to put the friendship to the proof, the master took the cat by herself in one room, and gave her a sumptuous meal during which she enjoyed the bones of the quail and seemed to forget the dog. The other half of the quali, uneaten, was put in a cupboard, the door of which was unlocked. The cat left the loudly in different tones, being answered with short barks. Presently the dog followed his friend, and, going to the cupboard, the cat pushed off the plare covering the qualo and lat duictly. ore the dog, who devoured it quickly. In New Orleans in the year 1832, when a bear was lowered into the

leading the blind.
cage of an old African lion, suppos$\operatorname{lng}$ it would be torn to pieces. As many people were assembled to
see the barbarous exhibition the see the barbarous exhibition the
bear placed himself in a flghting posbear placed himself in a fighting pos-
ture and flew at the lion, but to the mazement of every one the lion placed mmazement of every one the hean placed
his paw upon the bear's head as if to his paw upon the bear's head as make friends with him. Taking the bear under his protection he suffered no one to until he was exhausted, se olosely didd
he watch over his new friend. Hè allowed the bear to eat, but refused food for himseli, and guarded the bear with A clergyman tells the story of once walking through a meadow late one evening and seeing a great number of rats migrating from one place to another. He stood perfectly still, and the entire procession passed by him. Great was his astonishment to see an old blind rat holding a piece of stick at one end of his mouth, while another rat had hold of the other end, and thus conducted his helpless and afflicted companion.-Esther Singleton, in Chicago Inter Ocean.

## AN AMUSING TOY.

How Any Boy or Girl Can Ma.
Draw the outline of a yataghan blade a yataghan is a Turkish sword-simi ar to that shown in the illustration, using strong paper. Let the base be circular. Cut out the drawing, and, using it for a model, cut as many more as may be required. Decorate them with a design painted in water-color,
or drawn with colored crayon. Stick

apanebe beittile-cock.
MYYYYYYYYY
You will ride a Bicycle
Of course you will ride. All the world will-fashion, pleasure,
 business - men women, children. It takes a while
sometimes for the ometimes for the nize its privileges; but when it does promptiy. Therefore, you whoare in the world will
ride a bicycle-a

## COLUMBLA



WM. TAYLOR,
Agent for Columbia and Hartford Bicycles TOPEKA, - KANSAS.

## Washburn College.

TOPEKA, KANSAS.

Collegiate, Academic, Musical departments. Classical, soienting and Literary courses. Seven
beautiful bullaings. 160 -acre campus. Large endowment. Faculty unexcelled. Highest standard of samission in the State. Expenses very low.
Splendid faclittes for solence and elassics. Fall Splendid faclitiles for solence and elasslcs. Fall
term opens September 11, 1895. Catalogue on apterm open
pilcation.
ax seals little rounds of bread on the circular portions for ballast. Now throw them up in the air and you will see them come down slowly, turning round as they fall, and presenting a bracerul and plors and benutiful mo tion.-Once a Week

Try to Say These Raplaly
The popularity of Peter Piper's celebrated peck of pickled peppers will probably never wane as a snare to catch the tongue that would fain be The following short sentences, as their authors maintain, do wonders in baffling the ordinary powers of speech: on the prizade
"The sea ceaseth and it sufficeth us." "Say, should such a shapely sash habby stitches show? ${ }^{\prime \prime}$

Strange strategic statistics."
Give Grimes Jim's gilt gig whip."
"Sarah in a shawl shoveled soft snow softly."
"up" cup of coffee in a copper coffeo
Before going on a sea voyage or into the country, be sure and put a box $u$ Ayer's Pills in your valise. You may To relleve constipation, blliousness, and nausea, Ayer's Pills are the best in th
world. They are also easy to take.

 HUMAN or ANIMAL Pain from sprains, bruises, cramps, diseased or torn flesh, aches, wounds, Neuralgia, etc., can be promptly relieved and cured by using

## Dr. J. H. McLean's

 Volcanic Oil Liniment.The FARMER'S REMEDY for the various diseases of domestic animals. It is easy to apply, relieves at once pain and inflammation, and cures quickly. Full directions with each bottle. For sale everywhere. Price, 25 c ., 50 c . and $\$_{1.00}$ per bottle.

THE DR.J. H. MCLEAN MEDICINE CO., ST. LOUIS, MO.

## KANSAS FARMER.

ESTABLISHED IN 1863.
Published every Wednesday by the
KANSAS FARMER COMPANY offict

SUBSCRIPTION PRICE: ONE DOLLAR A YEAR


KANBAS FARMER CO.,

| ADVERTISING RATES. <br> Display advertising, 15 cents per line, agate, (fouren lines to the inch). <br> Special reading notices, 25 cents per line. <br> Business cards or miscellaneous advertisments <br> III be recelved from reliable advertisers at the rate 85.00 per line for one year. <br> Annual oards in the Breeders' Directory, con- <br> iting of four lines or less, for 815.00 per year, in- <br> Electros must have metal base. <br> Objectionable advertisements or orders from un- <br> se, will not be accepted at any price. <br> To insure prompt publication of an advertise- <br> ent, send oash with the order; however, monthly <br> qo are well known to the publishers, or when ao- <br> ptable references are given. <br> All advertising intended for the current week ould reach this office not later than Monday, <br> Every advertiser will receive a copy or the paper Address all orders- <br> KANSAS FARMER CO., Topeka, Kas. |
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The fall term of Washburn college (Topeka) opened last week. The at-
tendance, especially or young men, is tendan
The "hot spell" under which people
are weltering at this writing, is said are weltering at this writing, is said by Sergeant Jennings to be the longest
and worst ever experienced in September since the records in Kansas began.
An exchange published in the corn belt advises its readers to hold their
corn for 25 cents a bushel, even if they have to borrow money on it to enable them to hold. In no case, says this
editor, should corn be sold at less than 20 cents.
The Mulvanes, of Topeka, have acquired several of the great isalt plants
at Hutchinson. The Mulvanes are unat Hutchinson. The Muivanes are undoubtedly the weaithiest men in Kan-
sas, and with their wealth they pos-
sess tremendous energy. Their insess tremendous energy terest in the salt busines.
opment and no lagging.
The managens of grain and stock exchanges find it necessary to interest country customers in the speculative markets in order to sell futures to ad-
vantage. For this purpose they are sending out circulars predioting sure
and rapdd rises in prices. Such rises and rapdd rises in prices. Such rises
may come butt the predictions of these managens are the poorest kind of evidence.
Abraham Lincoln's sentimental - perplexities are to be shown in an article of singular interest which John Gllmer Speed has written from unpublished letters of Lincoln to Joshua Speed, for the
next dssue of the Ladies' Home Journal. next issue of the Ladies' Home Journal.
The article will show that the great The article will show that the great
President was not steady in his affairs President was not steart, that he floundered in his to marry and tell him (Lincoln) whether omarrilage was a fallure or not.
A good deal of complaint has been
made in times past because farmens made in times past because farmers were not able to procure cars. The Kansas Farmer asks that all such cases in the future be reported to this office about dt . There are rellable commission houses to which farmers can ship,
and there should be no reason why the farmer may no't be his own shipper and receive all there is in his products.
Ribbon cane is a variety of tropical sugar cane. It is grown from canes of the previous season's crop and is not It requires a long season to mature and in the latitude of Kansas the roots would surely be killed by the cold of
win'ter. To import "seed" canes and produce a crop for sirup in Kansas would make it an expensive luxury.
The above is written to prevent misapprehension on account of a paragraph in the lettier of
son, on the Horticultural page.

## Sale Postponed.

Win'terscheidt Bros., of Horton, Kas., write us as follows: "Owing to hog
cholera all around us, we postpone our thoroughbred Poland-China swine sale unitil some day in November. Our hogs
are all right yet, and doing finely."

THE QUESTION OF WATER RIGHTS. The fôlowing news paragraph ap-
peared inl two dally paperss last Friday: The case of Peter Hansen aganst the The case of Peter Hansen against the
Ward Irrgation Compan wasths even-
Ing ended by the jury bringing in a ver-



 much attention throughout aill northwwest-
ern Kansas. The War Irrigation Com-
pany will doubtless take the case to the
Supreme court. The Hansen miss is lo-
cated on the North Solomon river at Located on the North Solomon river at Lo-
gan.
The question of the right of the individual to use water has received the attention of law-makers and of courts
for ages. In Kansas, however, the issues are almost mew, from the fact that our running streams have not constituted a prominent part of our natural
gifts, and from the further fact that, gifts, and from the further fact that, streams have been made almost exclusively by millers, whose rights and Itabilitles are well defined by the "common law." But when interest was de-
veloped in drrigation, the Kansas Legislature assumed that it had the right, and that it was its duty to deflne by law the righit to use water for this purpose
and to authorize its appropriation to privalte use for irrigation purposes. The no provision for the use of the waters of the State, so that the Legislature had neither
instrument.
The question has sometimes been aeked, whether beyond the constitution, Kansas is under the Common Law of The territory was uniginally a part of The torritory was unginaliana a purchase from France While subject to France, the territory was under the "code." Did it cease to be under the "code" and come under the common law by transfer to the fore unimportant, may assume great importance in the litigation which is Hkely to arise as to water aights, from
the fact that the common law, which the fact that the common law, which justice and equiuty on questions of dispute, has had very Mittle to do with the use of water for irrigation. The rights and interests of irrigators may be sald to have been "not in court" water rights were made. The "code,"
on the other liand, while likewise on the other hand, while likewise
the result of attempits to do
justice justice, grew out or a much more of irrigators.
But whether Kansas is nominally, his-
torically and degally under the cummon torically and; legally under the cummon that her courts have derived their opinjons of justice, equity and constitutional
right much more from the teachings of the common law than from those of the from common Jaw States; their books are common law buoks and their edulaw.
The experience from which the common law was evolved embraced every
possible use to which the water of a stream could be applied, in the driving of machinery, the watering of stock an these. which uses waiter in quanitities at all comparable to those required for irrigation is the driving of machinery. In this, use it ts possible to return to the
stream its volume unimpaired and unpolluted. This use the common law permits and this return it requires. But in irrigation, the case is different. Wate
used for irrigation is not returned used for irrigation is not returned di-
rectly to the parent stream, either in whole or in part. It is estimated that about half of the water applied to the land does eventually find its way back to the stream if used within the drainusers of water below. In irrigation di version leave the volume of the stream unimpasired. Under the common law which individuals can be authorized to gation.
But whether our courts hold that under the "code," certain it is that the are very soon to be called upon to do justice between parties contending for the right to use water. Not unlikely the extent of this use, the manner and mode of its application, may bring into court interests and conditions new "code."
As to
desiring to use the waters of a stream
for diverse purposes of agriculture and milling there is precedent for reasoning mike the following:
Agriculture is the oldest, the primary gifts of and has first right to such success. If the farmer may mot produce his crop, the miller will have nothing to grind. If the farmer and the miller both need the water of the stream the miller has be first served, even if the with which to drive hils machinery The farmer cannot do without the
water; his crops will fall and want will water; may apply the wind or he can generate steam. The necessities of soclety re succeed. When reasoning similar to this agriculture was placed above mining in a notable decision in Callifornia, some
years ago. It is well that the matter is years ago. It is well that the matter is
likely to go to the Supreme court in this State, and it is desirble that all aspects of the case be so fully presented
that we may have an interpretaltion of rights with all interests in court.
The further questions which are likely to arise as to the use of the underflow and various contention between irriga-
tors, will form another branch of the subject requiring much more attention than has yet been bestowed by elthe legislators or courts.

## RECOVERY.

The great depression in this country told with crushing effect upon the value er many corpe of the rallroads went into the hands of recelvers and stocks
which, a few years ago, were thought to be better than government bonds, went down to almost nothing. There has been some recovery during the last
six months. Indeed, the early days of last March seem to have marked the lowest point, so far as prices of corporate stocks are concerned
The following table shows prices six months ago and now, as recorded on the New York stock exchange


Mit. New Jersey
Mit. St. Paul....
nicago \&
Rock Island
Del. \& Lack
lilnois Central......
Mo., Kan. \& Texas....
Mo., Kan. \& Tex. pfal
Missourl Pacific......
Texas \& Paciflc.
Wabash pfa...
Sugar Ref T..........
American Unaco.
Western Union Tel.
It is safe to say that no such advance correspond to the advance in prices of stocks. But some of the properties Mitigation which threatened uilsh the stockholders' interests. V rous adjustments have since been made whereby both stockholders and bondolders hope to protect their interest Actually more business for these cor porations now than six mon'ths ago, and while the recovery of the country hat shown in these stocks, there is no question but that some recovery has

## EMERY AT ALBUQUERQUE

Judge J. S. Emery, or Lawrence, Kas.,
in his address, as National Lecturer before the Albuquerque Irrigation Con gress, last Monday, snowed an apprehe great the sid portion or the United States. His demand for government surveys for the discovery of the water necessary for irrigation is parhe plaing can retain sufficlent water for the greatest irrigation development the a general way. But tho determination of the distribution of this water in the natural reservoirs, and of the sites for great ones be determined upon, or of systems of reservoirs under private auspices, are matters to be ascertalned by
survey. Judge Emery's plan is to have this survey made by the general go ernment.
in Kansas
be accomplished soon providing it can survey now in progress under state auspices is of immense value and is the government work proviously done by this State work will be crowded in the future, and, while we shall always be
able to avall ourselves of all informa-
tion furnished by the more general work of the government, Kanses is not likely to let her inrigation development
wait.
It is gratifying to note that the Kansas delegation a't Albuquerque is turnneeds of the plains and making manifest that this greater irrigaton region, as well as 'the small fertile strips among the

THE MOUNTAINS AND THE PLAINS The National Irrigation Congress is in session at Albuquerque, N. M., this whlch Kansas is well represented. This congress has, at former sessions, in lined to give more attention to ques ons of taw and social organizatom a rrigation development, than to th practical questions of obtaining and pplying water. The interests of col nization schemes and of great ditch and reservoir companies have also been omewhat manifest. Some of the lead ing men or out cong the prospects of ond deals and financlal schemes in onnection with vast co-operative as ell as corporate plans for irrigation development. A cruel blow to the latn, in a Federal Wright law in California, under which some millions in bonds had been issued These was declared unconstitutiona Kansas then in the mountain states, or two reasons: First, Kansas is eas ly reached by the individual gettler, o that colonization, nedther as a con enience nor as a necessity, can be Kansas urged. The chier inverest o prevent them from absorbing the ttention and approprlating the wate which should be devoted to private and K egion east of the Rocky mountain and west of the humid belt, is such a o invite small plants, and to have its best developmen't under individual en terprise. These suggest little or n change in the social order now preestablishments; no change in land holdings; no substitution of corporate for which the supplies of water are placed within easy access of the individual farmer contains more tillable land than all of the remainder or the arid region, and is destined to very soon show a under irrigation on a scale to surprise the world. Whether this development, already well inilliated, shall recelve
recognition from the eminent body now in session at Albuquerque, or whether organizations, depends much upon the disposition of those who are managing the national meetings. For the schemes of the schemers the plains are unattractive. They furnish no openings or big jobs, big speculations or blg financlal operations. But they ao furvish attractive opportunities ship of unparalleled agricultural and horticultural opportunities.

## The State Fair

The State fair to be held at Wichio excel all former efforts at fair management, for 10 , these many years. New buildings are under process of construction and the grounds are being made as attractive as it is pussible for in fact, no step is being left untaken that will in any wise add to the appearance, convenience and comfort of itor or an exhibitor. Remember the dates, and also remember that Hon. Wm. H. Harvey will address the multitude of people, at the fair grounds, on
the afternoon of October 2, and that one fare for the round trip prevalis in Kansas, Oklahoma and Indian Territory. Thousands of people will be there
on that great day. You come, too. See on that great day. You come
advertisement in this paper.

## A Good Feed Grinder

One of the most practical and effective is the Star Feed Grinder. Simply conWtructed, yet etrong and powerful, and
it now new and great improvements added,
it now capacty of twelve to five bushels of ear corn per hour. It
Irinds grinds dry or damp corn, as well as all
small grains, as fne or as coarre as may
be desired. It is sold on trial, so confldent are the manufacturers that it will do ail they claim ior manufactured by the Star Manufac-
It is
turing Company, 83 to 89 Main street, New Lexington, Ohlo, who will mail fuli
ticulars to any one on application.

WEEKLY WEATHER-OROP BULLETTS Weekly Weather-Crop Bulletin o the Kansas Weather Service, for week ending September 16, 1895-T. B. Jennings, rector :

## CONDITIONS.

The week has been excesslvely warm, the warmest when september on ur recon. H1, division, Med Mitchell Cloud and Dlck Reno, Ridee, Mitchell, Cloud and Dickinson, and hea land rarts of Butler; vey and north ata ditistion, light rains While dn the eastern division, inght railo Mlami, Linn and Chautauqua, but the Mlami, Linn and con the great rainfall in the mildile counties of the eastern division, along the Neosho Vailley, being upwards of six inches over Lyog, Coffey, Woodson and Neosho counties, and culmanating in a fall of ten anches at
Gridley, in southwest part of Coffey, Gridley, in southwest part of Coffey,
this great rain falling inside of seventhis great

## RESULTS.

## EASTERN DIVISION

 The dry, hot week, since the storm, has matured corn rapidly and per-miltted haying to be about completed, except in the overflowed lands. In the belt of the storm, which moved from northwest southeastward ecross Lyon, Coffey and Woodson, targe amounts of corn, wheat, hay, melons, pumpkinns, etc., were washed into the Neosho, the storm spreading as it advanced, extend-
ing the destruction inta Wilson, Monting the destruction nom wison, Montoutside of the storm area much plowing has been done.
ing has beenn done.
Allen county.-Hest week of the
and season; corn-cutting, haying and broom-
coeding all over; sall pluwing corn seeding all over; fall pluwing
begun; Neosho river twenty-six feet
orn ripening fast and all right; oats injured some, those belng threshed Moing damp and musty; apples plenty. Montgomery.-Verdilgris river two liches nigher at Indepenidence amd from at north 00 twenity-four inches ingher before known, and has done great damage to conn, wheat amd hay in bottoms.
Ostage.-Rapid progness in haying and corn-cutting has been made this week. Pottawatomie.-Farmers took ad corn maturing fast, will be fit to orib next month.
Wabarunsee.-Hot winds; corn fast drying up; haying about done Wilson.-Apple crop badily damlaged
by storm; the Verdigris river reached from bluff to bluff; thousands of acres of corn badly damaged or washed away. Woodson.-Corn crop made and much of it on the river carried off by hilgh waiter; great damage done to all crops on river and creek bottoms.

MIDDLE DIVISION. The hot, drying week has helped over Ing, which is being pushed all dive though some reponts of damage by hot winds and bugs. Much plowing is being done, but rain is needed, sot ground in better condition.

Barber.-It has been excess!vely hot Barton.-Hot winds are pushins the corn ahead pretty lively; guod week for
haying, but whelat-sowing is being chaying, but wheat-sowing
Butler.-Corn-cutting has vegun; hay ing is in full progress, quality fine; con siderable frult has been blown down. Clay.-Haying is in full blast, a large crop of best quallty has been put up;
corn tis injured by hot winds and bugs corn ds injured by hot. Winds and bugs
more than was expected; wheat-sowin has commenced.
hay being put on the mai Smethe also the in progress; it is dry and thot.
Stafford.-All crops about matured the week has been windy, holt and dry; broomcorn the best thiat has been raised much damage to new wheat; ;ate corn wtll make a fadr crop.
Sumner.-Pastures are drying up rapidly; corn-cutting is done; no wheat has yet been planited, it being too dry; bugs are thick.
WESTERN DIVISION.

WESTERN DIVISION.
Hot and dry, a hard week on corn but fine for haying, fodder-cutting, threshing and securing the third crop
of alfalfa.
Decaltur.-It has been a hard week on
Deccatur.-It has been a hard week on
corn; tate corn, which is clean, would be good if we should get a rain, soon. Finney. - Sorghum orop is beling harvested for fodder; weather is favorable for alfalfa.
Ford.-Weather has bleen hot and dry peaches in abundance; third crop of al talfa flrst-class.
Gray.-Corn and Kaffir corn about all of feed and to spare.
Haminton - Everyithing completely dried up; hay is fine and is being put up rapldyly, the crop is about double the usual.
Meade.-Weather is very dry and not. Morton-Corn is drying up fast crop, both of conm and fodider; the hot winds have not yet hurt them.
Norton.-Fall work is progressing well; crop of hay very large; corn is ripening rapldiy; but dittle fall plowing is done.
Seward.-Haying is in progress; unripene
ralln.
Sheridan.-Weather is very hot and dry; the farmers are cutting hay and
cane; broomcorn-cutting nearly ovcr; it is too dry to plow. Thomas.-The week has been characterized by hot winds.
Trego.-Late corn and came are drying up; Kafflr corn looks well; threshing and making hay form the principal
work. work.
Wallace.-Most of the corn is cut up; a good crop; it is too dry to plow; weather is excessilvely hot.

## OONORETE FEEDING FLOORS. EDITOR KANSAS FARMER: I noticed, on a recent issue or your pa- per, mention or some farmer reporting that men 

 valuable paper, in regard to the proper
materials and correct proportions of each
kind kind required to construct such a place
that more or us may do as he did?
Wichita, Kas.
N. SWANSON. Prepare the place for the feeding floor by removing all trash and pack
ing the earth hard and smooth. It is ing the earth hard and smooth. It is welth of several inches and while wet tramp it with horses until perfectly hard. If only a small floor is to be constructed it may be more conven-
lent to settle the earth with a pestle than to tramp it with horses. If the or five inches and the place fllled with cinders well packed, an ideal foundation for the concrete floor is obtained. Whe surfaced ready for the concrete, the foundation, whether of earth or of cin ders, should have the same slope as is desired for the floor. One inch to ten feet will probably be sufficient, but two or three times as much whll not be tound too much for a wide foor. A sloping floor k.
level one.
Having properly prepared the foundation, begin at one corner, and with $2 \times 4$ scantling placed $n$ edge inclose a small space-say one square yard-to be filled with concrete. This is convenlently arranged by laying on edge a $2 \times 4$ of sultable length from a corner across or partly across che same corner along one side. Then inside the floor space lay aniother $2 \times 4$ parallel with that across the end and three feet from ot. Wdth a $2 \times 4$ three feet long, cut off a square yard. Fasten the scantlings all in place by stakes. By moving the short scantling after the space has been fllled another space may be inclosed, and iby moving as win readHy suggest itself, the entre foor may be successively inclosed
nches is to be made use narrower scantlings.
Take one part hydraulic cement, one part sand, and one part gravel or
broken limestone; mix dry. Separate broken limestone; mix dry. Separate
bushels-and add to at enough water to molsten it, but not enough to make it sloppy. Mix well and quickiy. Then shovel the moistened mixture into the inclosed square yard between the scant If too much water hes been used it wdll splash when etruck hard with the pestle and if too uttle the materials will not stick together well. The surface of the cancrete may be left slightly below the top of the $2 \times 4$ 's. This space may be flled with concrete mortar without very coarse gravel or broken stone. should be put on with a trowel and
smoothed down very hard. This mortar may be of the consistency of oudinary plastering mortar, but should not b mixed in large quantities, for it must be used soon after it is wet, otherwise the quallity is impaired. The application o his top coat may be made as the work proceeds, square by square, or it may be deferred until the foundation work is all completted and put on afterwards. It as you go, for then there is less danger of the top colat peleling off. If the foundation be all ladd first, it must be cleanel and molstedened before the top coat goes ion, otherwise, the top coait is table 0 separate and come off.
Such a floor should be wet thoroughly after finishing, land covered over with ing. If allowed several days in which ing. If allowed several days in which durable.
The best cement is the Portland, but it is expensive, and very satisfactory floors may be made with Louisville cement, which is much cheaper.

## A Noxious Weed.

EDITOR KANSAS FARMER:
I would like to have you teli us about a plant called "Chinese lettuce," which
grows in clover fields. Heads look like timothy, quite a good deal. The knowing
ones eay it will in a very short time ruin a meadow when once started. Most peo a meado not know what it is.
CHAS. E. ELLIOTT.
Oskaloosa, Kas.
The plant referred to by $\mathbf{M r}$. Chas. . Eninott, of Oskaloosa, a specimen o tain or English rlb-grass, (Plantago lanceolata). It is perennial, having many long, slender leaves, strongly ribbed with five to seven ribs, all ris ing from the ground, some specles or which are very common in our door yards and wagon drives near the houses. It has scapel or siging from the ground to tho half an inch to two inches long, well filled with seeds.
The plan't, although it may be trouble some for a season, can be readily gotten rid of by plowing and cultivation; that of course, is impracticable in clove felds; hence io fourishes there. Mow ing does not injure it, but, on the con rary, rather seems to licrease fts seed reasonable amount of tramping, and flourishes in pasture fields when it once gets a foothold there.
The plant is a native of England, and has been introduced into 'this country through clover and other seeds brought from there. It will not do well in a dry climate; hence it will make ittle progress in Kansas, especially in western Kansas; but the past season growing vigorously wherever it is found this year in eastern Kansas.
It is not an especially harmful weed, as it is easily gotten rid of by plowIng; and while, like the ox-eye daisy, it may be troublesome enough now and
then, it will undoubtedly run out or be amenable to ordinary treatment.

## Kansas Acade

A Ohance for Women to Make Money.
I see so many men giving their ex perience in the Dish-Washer busines that une would almost think the men tadies can do just as well as men. I have been devoting my time for over a yea to selling Perfection Dish-Washers. My husband has aided mornings and even ings, and we have cleared $\$ 5,000$ in a year. The trouble with people is they will not try new things, so let the golden opportunities pass. Every family wants a Dish-Washer, and any one can sell
them if they try. I do not canvass at all; people come or send after washers. I have examined all the Dish-Washers made, but the Perfection has no equal You can get complete instructions by addressing the Perfection Manufactur ing Co., Drawer a-3, Englewood, Ill usiness and let us hear huw they suc ceed.

## §orticulture.

SOUTHERN VEGETABLES AND FRUITS In KANSAS

## pitor kangis rarmer

Four years ago I determined to try to cultivate some Southern vegetables on my Kansas farm
Mexican beans (frizoles), were planted the latter part of April. They grew thriftily all of a rather dry summer and barely b:oomed before frost killed them. They won' do
Black Eye and Lady Finger peas, of the Carolina varlety. They were a success from the start. I have raised the corn-planter and only use the cultlvator to work them. Planted about the 10 th of May, they gradually spread
their vine from row to row by July. They 'bear a new crop after each shower in drier seasons. In wetter ones they bloom and bear prolifically till frost. The fruit is fine food for the
table, for poultry and for hogs. The vines cut with peas on them afford extellent forage for cat-
the and sheep. Different varieties of this pea may be sown broadcast and cut as forage. Turned under with the plow, It a superior fertizer, and will ture for fertilizing our uplands, Edward Atkinson considers it the greatest of all Southern vegetables.
Okra, not much known to people in States, is a delicious vegetable. It is
used in making the famous "gumbo" used in making the famous "gumbo"
soup of Louisiana. It is very palatsoup of Louisiana. It is very palat pods. It is bolled quite tender, being to suit. I plant the seed in drills-corn row width-in May; cultivate as for corn or potatoes, with same tools. It to eat when two inches long, and tender enough whilst the finger-natl will cut into them across the fiber. I have never seen it grow better in the South
than it does here. Of course, I have a large pond, and just below the dam I have my garden. sub-irrigation has taken care of it in droughts that killed other gardens. And if this were not the case, I could syphon water over the dam and through. a hose. The pond is supplied by a nominally
dry ravine, with a watershed of not to exceed eighty acres. Callfornia, Florida nur Louislana do not sell me any sell me any Irlsh potatoes. That pond and a ten-dollar subsoil plow saves me from sending those States near one hundred dollars per year, or I would do without good things to eat.
I belleve that the fig tree will grow and bear one crop per year in the great Arkansas valley. It grows unsheltered in Varginia, east of Wellington, and produces fair fruit. The fig is a hardy bears best fruit in a moderately dry be brought from the cooler and drier parts of California and from Louisiana or Texas, in April, and stuck into a
sandy soil in old ground. The cuttings sandy soil in old ground. The cuttings
will undoubtedly grow for that season. will undoubtedly grow for that season.
They should be kept mulched, not alThey should be kept mulched, not al fall additionally covered to carry them through the winter. By care in two
or three years the tree would grow and cuttings from it put out would produce a more acclimated tree. The fig does
not bloom. The young fruit bursts not bloom. The young fruit bursts
like a bud through the bark of the like a bud through the bark of the
twig. It is easily grown from cuttings. The pomegranate is equally as hardy as the fig, I think, both growing well in

## The

fully grown in Texas, ought to grow in fully grown in Texas, ought to grow in
southern Kansas. This cane makes as fine sirup as the West India sugar
cane. It grows as far north as Red cane. It grows as far north as Red
river. I am more familiar with the delicious sirup than with the cane; al-
though I have seen it growing in pass though I have seen it growing in pass-
ing. I think it is grown like sorghum. from the seed. The tropical cane is apart, the canes being laid in the furthrown over them with a plow, and each joint furnishes a dozen suckers or more. in August the intervals between rows are nearly closed. A crop so planted is good for several years without re
planting. The ribbon cane is next to planting. The ribbon cane is next to
it in sur material, I believe. Wichita, Kas.

## Raising Raspberries.

EDITOR KANSAS FARMER "Why do many fall with raspberbecause they do not secure the right soll at first, and second, beoause they do not maintain their richness. After the roots are planted the canes that shoot up
this year will produce fruit next season this year will produce fruit next season
They should then be pruned out to give the other new canes a chance to bear If the new canes appear in great quantity it will be necessary to pinch off the ends in order to induce a growth of
laterals. In this way we get canes large enough to support themselves This can be done successfully that n stakes or other supports are required.
The work of fastening the young canes The work of fastening the young cane dortaking, espectally in a large field and the cost of the many supports for raspberry canes is quite an item, more so than in grape culture, for the new canes must be tied to the supports very spring. Various systems of sup ponts for rapberries are adopted. Some drive two takes into the ground around
each root, and inclose the clump of canes in an ordinary barrel-hoop the hoops being nalled to the stakes about a fou or two from the ground. Some drive posts into the ground along the line of strong wire over them. The support will keep the vines in position and pre vent them from falling down after a severe storm, or from running all over the ground. The canes should be prune the flist time should be pruned back elther in the fall or spring, by shorten ing and heading back the leading shoots. The laterals should be short ened to about one-third their urigina length. This makes the canes stuck and the berries larger and of superio limer. Pruning requires considerabl rime will get smaller each yone the ber first it whll appear that the land is not rich enough, but a little intelligent pruning and cutting of the canes will do the most good. The right soll should be obtained before field culture of rasp berries is undertaken. A molst and wel drained soll must be supplied. It must
be prepared by plowing, subsoling and harrowing and mixing it thoroughly with stable manure. pared will produce raspberries in abundance. The fertility must be maintained year by year by a good top dressing. In this work either the well-decomposed stable manure or some complete fertil lzer should be used. If the latter is used it is well to apply stable manur
at least every second year. JEROME.

Remedy for Anthraonose on the Red Raspberry.
We recently received a call from prominent fruit-grower of Marlborough on the Hudson river. He stated that rod raspberry growing had been al iver district owing to the anthracnose attacking the cane and destroying the plantation. We knew that there was more or less of this trouble in various parts of the country, but we were nut in any locality. This gentleman, who had made a journey from Marlborough o Rochester to see the Loudon in fruit remarked that he knew of no remed or anthracnose.
To-day I have recelved a call from one of the firm of McCullom Brothers, 0 veckport, New York. This firm hav various kinds of large and small fruits and are well known throughvut this part of the State. They made an exhibition of apples at our Western New York Horticultural meeting last winter which was one of the most remarkable have seen of late years. The fruit wa of the largest size and without blemish ndicating that they had mastered th gus and insects etc. also came to see the Loudon raspberry ruit, and naturally our. conversation urned to anthracnose, from which the Loudion thus far is remarkably free
Mr. McCullom stated that large plantations uf red raspberries had been de-
stroyed in his locality by anthracnose but that he had been entirely successplantation by spraying with ammoniacal olution. He said the thad sprayed his before the fruit began to ripen and once after, paying no attention to the
condition of fruit as to whether he sprayed or not, since the solution did not affect the fruit. His first spray was applied soon after foliage appeared Mr. McCullom said he could tell by the appearance of the foliage whether an-
${ }^{\text {BRADLTE }}$ New York.
coLLIER Né York. Louls.
CORMELL St
DAvIS-GHAMBERES,
ECKBTEIN ${ }^{\text {Cincinn }}$
FAHPBSTOCI
PAHRESTOOCK,
JEWETT,
Pitsburgh.
EEMTVOKY, New York.

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yorhex, cleveland.
missourit.
St. Louls.
RED SEAL. Louls.
salem,
shipmank
Chicago.
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St. Louis and $C$
ULSTE
UNTON,
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## \section*{ARmbrionat Morithity <br> <br> $\triangle$ SOHOR, CIncinnath. <br> <br>  <br> <br> Don't Buy <br> <br> Don't Buy <br> barytes if you want White Lead. Pure White Lead is the best paint-barytes is the poorest, is worthless. Barytes is often sold under the brand of White Lead, Pure White Lead, \&c. Be careful about the brand (see list of genuine brands). Don't take what is said to be "just as good. <br> Any shade of color is readily obtained by using the National Lead Co.'s Pure White Lead tinting colors. One pound of color tints a 25 -pound $k$ phlet-free. NATIONAL LEAD CO.

The moment the leaves begin to curl inward, showing the under slde of the by anthraonose. The disease attacks the leaves first, descending from thence to the lower parts by gradual stages. The expense of applying this spray is trifling and should never be omitted where signs of the disease are discovcully for the curling of the leaf in the red fully for the curling of the lear in the red
raspberry and the moment the leaves bein to curl, apply the ammonlacal spray As this information is new to the writer I assume it will be, likewise, to very many of our readers, and if so this ar-
ticle alvne ought to be worth several ticle alune ought to be worth several
thousand dollars to the frult-growers thousand dollars
Mr. McCullom
ould detect fungus an stated that he by a similar curling of the leaf and hat ihe could immediately straighten out the leaf into a healthy growth by this spraying before named.-Green's Fruit Grower.

## About Borers.

Writing about borers,
of Marshfield, Mo., says:
Marshnela, Mo., says: The insect that deposits the egg in is a black and white striped bug with very long horns-about the shape of our old-fashioned potato bug, only con-
s!derable larger. These bugs deposit s!derable larger. These bugs deposit the egg, I think, any time from the 15th perhaps later. After the egg is hatched the borer starts to girdle the tree in a downward direction until it is perhaps half grown, when it enters the wood and starts up, going four or six inches above the ground, when it again comes to the bark and lies unth
tully developed. When it comes out the female finds its mate and goes to laying eggs for the next crop. I took a dozen
or more of these bugs out of my trees or more of
this season.
"Again, I know by experience that the borers will attack a healthy, well-
shaded tree as quickly as an unhealthy shaded tree as quickly as an unhealthy
one. I have taken at one time as many as twenty-two eggs out of my healthiest trees-trees which were six to eight Inches in dlameter. But I have lost
no trees sinde I commenced fighting borers in earnest
"I also think I have struck a good preventive for borers in pure kerosene Il. I never used it unt11 this season.
washed part of my trees last May, I washed part of my trees last May,
using a common paint brush, and as far using a common paint brush, and as far as I went have very few borers inis
season. I washed the trees again the first of August, taking out what few borers there were except one tree that had four or five eggs deposited in
I left these in and applled the I left these in and appled the oll. have gone back at different times, but
the borers are either dead or so sick the borers are etther dead or so sick
that they have never made any dust
since. I think the oll will destroy any young borer that is not under the nothing but the coal oll. It leaves the bark in a nice healthy condition and I am satisfed that it is a good remedy for the borers. For small trees it should not be applied too heavily, as it may
soften the wood and the tree will no sorten the wood and the
be able to support itself."

## Raise Apples for Exportation.

## Claude Meeker, American Consul a

 Bradiford, England, reports to Secretary of Agriculture Morton: are imported from nearly all fruit growing countries. The amount pro duced there is exceedingly small. At the same time the demand for fruit is
continually growing, many physicians continually growing, many physicians
recommending the American custom of recommenaing the American custom of
eating fruit for breakfast as exceedeating frut
ingly wholesome and the general consumption of fruit in season as health ful in every way. The cllmate an
seasons in this part of England no being suitable for fruit culture, the people have not, as a rule, any partic ulan desire for it. The American apple, however, is in special high favor, partic ularly the Newiton Pippin. Immense quantities of these apples are shlpped erers get the American fruit from both London and Liverpool. Despite the great quantity received, the supply prac tically fails about the middle of February in each winter. At the present
time the cholce Newton Pippins and time the echoice Newton Pippins and other winter apples command at retall
about 5 or 6 cents each. If the high railroad raites which discriminate against fruits could be broken duwn, the
consumption in almost all the interior cities would be quadrupled, and a grea cities would be quadrupled, an
market twould thus be opened.'

One advantage of taking Ayer's Sarsaparilla to purify the blood is that of labor nor deny yourself any food that agrees with you. In a word, you
are not compelled to starve or loaf. are not compelled to starve or loaf
while itaking it. These are recommend ations worth considering.

Oatarrh Oannot Be Oured with LOCAL APPLICATIONS, as they cannot
reach the Beat of the disease. Catarrh is a blood or constitutional diesase, and in order to oure i you mast take internal remedies. Hall's Ca tarrh Cure is taken internally, and acte direotl
on the blood and muooue surfacees. Hallis Ca
then tarrh Core is not a muouck medicine. It was pre
soribed by soribed by one of the best physicians in thi
country for years, and is a regular presoriptlo conntry for years, and is a regular preseriptlon.
it 18 composed of the best tonics known, con bined with the best blood purifiers, acting drectly on the mucous surfaces. The perfec combination of the two ingredients is wha
produces such wonderfal realts in curing ca tarrh. Send for testimonials, free.


## ESTABLISHED IN 1865

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A. B. COMBS, Assistant Secretary

Five hundred and sixty acres in nursery and 240 acres in bearing orchard. Extensive growers for the wholesale and retail trade. All kinde of nursery Unequr sale. Write and obtain our prices before placing your nrder elsewhere and ship from the same grounds. SPEOIAL PRTOES on stock. We take up, pack ts. We solicit correspondence and invite inspection of our stock.

## In the Dairy.

Conaruted by A. B. Jowss, of Oakiand Datry
Farm. Address all communtcations Topeka; Kes.

## JERSEYS FOR THE DAIRY

 With the continual decline in the prices of all cereals, more farmers are gradually awaking to the fact that some other field of industry must be opened if they would lift the mortgage comforts and luxuries which wealth alone can buy.Many of these overburdened farmers have, along with their grain-raising, dabbled in dairying; but, from lack of care and an understanding of the laws of inbreeding, their stock has degenerated until the profits, if procts they may be called, when the cost of keeping is considered, amou
necessities of the table.
The fact that qood
The fact that qood butter always commands a steady price, as shown by the market reports of any paper, has led many to inquire more closely into the nature and possibilities of this particular branch of dairying. That there must first be a change in the grade of their stock most farmersareconvinced, afford the time or means to prove which bread of cattle is best adapted to their needs, the experience of open-eyed,
truthful men is invaluable. Among the many breeds whose merits have been discussed and advocated by leading dairymen are the Jerseys. These cattle, natives of the Channel island of our country by the progressive American, who saw in them the possibilitie of a grander sphere of usefulness
than that of mere ornamentation. That they are particularly well fitted for dairy purposes is shown by the quality of their milk and the readines with which they convert their food into butter fat. It has long been con ceded by experienced dairymen-and this is indeed the Jersey's strong point -that they produce more butter from a given amount of proper food than any other breed; and since economy is one of the roads to wealth, the man who leeds a dollar's worth of food to a Jersey cow and receives in return two dollars fo his labor is nearer his goal than the possessor of inferior stock, who oft times is not repaid for the food they eat, to say nothing of his labor. Then to change these unprofitable animals which yield three or four pounds of butter a week, for those requiring no more food or care, and which produce eight or nine pounds a week, is a question which ought to command his immediate attention.
The widespread distribution of Jersey cattle throughout the United States proves that they are not restricted to any particular climate, and their rapid increase proves that they are not more susceptible to disease than any other breed.
Consumers of milk in cities are more quick to appreciate the difference in quality between Jersey and ordinary milk than we would suppose, and they would willingly pay a better price if they could be guaranteed the better article. That the owner of Jersey products could readily create a demand for his articles is unquestionable. Why then, should he not? Now that the patrons of many cheese factories are being paid according to the ries are being paid according to the there is an added reason why he should not hesitate to improve his stock. Many people will tell you that the high records made by some Jersey cows are exceptions; but it is not to these special cases, which you, from lack of means, perhaps cannot afford to imitate, but to the record of the general Jersey we would have you might be your home's salvation. It is a mistake among amateur dairymen that they seek to combine the qualities of a beef and butter-producer. This invariably results in a beef-producer; but if he persists in his object, let him not tamper with the Jersey, whose not tamper with the Jersey, whose
mission is strictly that of buttermission
There is much for the beginner to
learn concerning the proper food and care of the Jersey, and there is no better means than through the columns of some good dairy paper, rich wich the experience and counsel of men who have made these cattle a grand success.
Their beauty, their gentleness, and, above all, the superior quality of their milk, justify them in their claims to the title of "dairy queens," and make them a desirable object in the eyes of the contemplative buyer. To possess a Jersey is to be inspired to nobleness, and to care for one is to be educated to gentleness and an appreciation of beauty.

## Dairy Notes.

The Pennsylvania Experiment Station has found creameries in that State where the loss of butter fat amounted to $\$ 10$ a day.
It is very questionable if it is advis able to keep a cow after she has passed her ninth year. The principal reason is that, although she may give fully as good a flow of milk, yet the increased
cost of her keep will materially lessen the opportunity for profit.
Do not let the milk stand fifteen or thirty minutes after milking, withou straining. The foam dries, cream ac cumulates on the sides of the vessel, and experiments show that a quarter of a pound of butter fat is lost out of 100 pounds of milk by this means.
correspondent in an exchange gives the following method of relievng choked cattle: Take of fine-cut hewing tobacco enough to make a ball molasses so it adheres closely. Elevate ${ }^{\text {per week. Much of the butter is sent }}$
float off in the fluid than to remain in the butter, for their presence there will decrease its price in the market, and it is a sign that the butter it
deficient in desirable qualities.
Nervousness and viciousness are engendered in the ill-treated cow, and transmitted to her offspring. The more docile the cow the more are her energies likely to be devoted to the tairyman's interests. We cannot be
to watchful over irresponsible help, who hesitate not to beat, hurry or frighten the cows.
It seems to be a small matter, but when every item is considered it is one that should not be overlooked, and that is when a heifer is trained to be milked, teach her to allow any one to milk her without worrying or exciting her. If this is not done and it becomes necessary to change mill be a shrinkage in the amount of milk secured.
One of the most common mistakes in making butter on the farm, in particular during the winter, is in keeping the milk too long. A low temperature of the cream prevents, or, rather, reards fermentation or souring, and is often the case that the cream is rept until it is bitter in order to secure a proper acidity, and it is impossible to make a good quality of butter from bitter cream.
Two thousand farmers furnish the milk from 12,000 cows in Dlckinson county to fourteen oreameries. The mount taken in daily at the various patrons receive pounds, for which $\$ 5,500$


THE CHAMPION ALL-STEEL POWER BALING PRESS. Manufactured by Famous MFG. Co., Chicago, ill
the animal's head, pull out the tongue and crowd the ball as far down the throat as possible. In fifteen minutes t will cause sickness and vomiting, reaving the muscles, so that whatever object may
thrown up.
The largest creamery in the world is the one at St. Albans, Vermont. It is owned by the Franklin Creamery Association, and has an output of 20,000 pounds of butter per day. It gathers cream from sixty-seven skimming stations and runs the cream in its own cars.
The Dairy Commissioner of Canada says a thimbleful of milk of average quality contains over $10,000,000$ globules of butter fat. They are lighter than the liquid or serum of the milk in which they float, and when it is left to rest the butter fat globules rise to the top. Rich food will make more milk, but not richer milk. Increase of fat in the cow's ration increases the per cent. o fat in her milk for a short time, but that milk will soon return to its normal condition. The composition of the milk is due to the individuality of the milk

To milk a cow "clean" has always been the ambition of the milker, and when that end was attained he was perfectly satisfied. But to milk a cow portance, does not in a large percent age of cases come within the scope of our consideration.
The little specks of white in the butter are nothing more than particles of sour milk; better, perhaps, to say flakes of pretty nearly pure curd, found most numerously in buttermilk from a churnsouring having coagulated cream, the and these specks are shout pure casein and these specks are about pure curd.
It is a great deal better to have them
to Chicago and New York. This is the banner county in Kansas in the pro duction of milk and in the number of
factories. factorits.
"Dairying, for Profit, or the Poor Man's Cow," by Mrs. E. M. Jones, is a most valuable book for every farmer's wife, that has had a large sale at 25 hand which we will close out at a very low price to our readers, viz., 10 cents or five 2-cent stamps. First come, first served. Order quick.

The Ohampion Baling Press. Herewith we present an illustration Press, made by the Famous Manufac turing Co., of Chicago. This baler is of the right stuff, will do the business satisfactorily from every point of view and will prove this year a veritable bank for the owner. All the bearings are in heavy metal frames, bound firmly ogether. It is impossible for the shafting or gearing to get out of order. power, safety break-pin, also friction power, safety break-pin, also friction
clutches and stop lever. In short, it is a baler for business, that does the work required at all times.
Hay will be the most profitable selling product of the farm this year, hence here must be an increased demand for reliable and durable balers. readers may find it to their advantage the Famous Manufacturing Co, the Famous Manufacturing Co., Chiing their power baling press.

FARM CREAM SEPARATORS.

Harvest and Home-Seekers' Excursions. The Missouri, Kansas \& Texas Railway Company will sell tickets at greatly reduced rates on September 10 and 24, to points in Missouri, Kansas and Texas. For further particulars address G. A. McNutt, D. P.
1044 Union avenue, Kansas City, Mo.


If you have FIVE or more Cows a Cream Separator will save its cost each year of use. Beware of imitating and infringing machines.
Send for new 1895 Catalogue. The DeLavalSeparator Co.
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## I used Ely's Cream

 Bulm for catarrh and efit. I believe it a safe and certain cure. Very pleasant to take.-Wm.

CATARRH
RL Y'S OREAMMALM opens and doangesthe Nasal Pasage Allays Pain and Inflamma-
thon, Heals the Soree, Yroteote the Membrane
trom oolds, Restores the Senses of Taeste and


A partlole is applied into each nostril and is agree



A. H. GRIESA, Prop r Kansas Home Nur serices, Lawrenoe, Kas, grows treas for commercial
and family orchards the Kansas Raspberry, Black Berries, stanarard and new Sirawberlies-aliso shade
and evergreen trees adapted to the West.

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## WILLIS NURSERIES.

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 FRUIT EMpoation
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PROFITABLE DAIRY WORK Can only be accompushed with the very best of tools and appliances. With a Darls
rator on the butter, while milk is a val-
Farmers will Farmers will
take to get a take to get a malled FREE EE the skimmed the skimmed
uable feed. uable $\mathbf{f e e d}$.
make nomismake no mis-
Davis. Neat, DAVIS $\begin{array}{r}\text { Agents wanted }\end{array}$ Cor. Randolph \& Dearborn Sts., Chicago.
RETAINS RUPTURE when al others Fall


Human Hand Truss.

For Doserptivo cirroularo Adrreas


## The Oeterinarian.

## Whe oordially inylte our readers to oonsult a

 Hok or lame andmalis, and thus asilist us in makrin

 Gort his orepartment should beaddt reply all letter
Veterinary Editor, DR. B. C.ORR, Manhattan, Ko Kas

HOGS DYING.-There is a disease among the hogs here and they are dying have no appeti'te, want to lie down al the time, and if made to get up they eat a 1 ittle and want to lie down again They have fever, cough, lose flesh and in the hind parts. Some die in three but so far all have diled that took the dissase. Some of the nelghbors have lost over a hundred hogs. What is it Sterling, Kas.
Answer.-Your hogs are dying from hog cholera. Why don't you notify the State authorities (Sanitary Commissioners) and have the infected locallties placed under quaranume? There is held in check to some extent. Separate all healthy animals from the diseased ones at once and place them in clean dry quarters and allow no one to pass from the diseased to the healthy animals without first removing all filth
from the feet. Use the following, as recommended by the Bureau of Anima Industry: Wood charcoal, sulphur, sulphate of soda and sulphide of antimony, carbonate of soda and hyposulphite of soda, of each two pounds; mix, and give a tablespoonful for each 200 pounds weight of hogs once a day.

## Neosho Oounty Fair.

Special Correspondence Kansas Farmer. The live stock display at Erie
was confined to a few breeders, and, be It said, they ecah had choice lots and will make their mark as breeders of
fine stock. In the swine department, S. T. Fyffe, of Chanute, secured all the awards in the Duroc-Jersey ring. The boar at head of his herd is West Ex-
ohange 4495, farrowed April 7, 1894, ohange 4495, farrowed April 7, 1894,
by Socrates 4143, out of Red Bess 9016 His leading sows are Katie Lee 2 d Lee 9086; Red Lee 10698, by Broadway Prince 3853, out of Katie Lee 2d 10656 and Ola Lee 10696, with same breeding
as Red Lee. The Chester Whites and Poland-Chinas exhdbited belonged to $J$ E. Bell and W. N Beechwood, of St.
Paul, both of whom "licked ithe plat-
ter" on the two hibit consisted americo sheep ex Shropshires, owned respectively by J. K. Brant, of Wainut, and W. N. Beech-
wood, of St. Paul. Short-horn cattl and Clydesdale horses were shown by
G. W. Rush, of Erie, and they all were G. W. Rush, of Erie, and they all were
choice. He, of course, got the awards assigned for these two classes. In poul try, there appeared several exhibitors,
among whom was Mrs. J. W. Martin, of Galesburg, with a showing of turkeys, geese and ducks, upon which she got over, first each on Toulouse and white geese, and second on Pekin ducks, also first on pigeons.
The above exhibitors will be heard from in due season through the ad-
vertising columns of the Kansas vertising
Farmer.

Anderson Oounty Fair.
Special Correspondence Kansas Farmer. The products and stock on exhibitio most excellent proportion, for all of
which great credit is due those whu had the courage to come forward and make a display. It never pays to stand
back, thinking all the while that neighback, thinking all the while that neigh-
bor Jones may have something better and when you go to the fair and begin that I had brought this, that and the other, for I know that my frult, my corn my potatoes and my stock could easily scoop everything here." That's not
the way to do. If yot have something the way to do. If yot have something
good, why bring it along, for by so doing you create healthy competition and prove to the "stranger within your
gates" that it is good to be one of you, and ten chances to one there would be added scores of the best farmers, as of the excellent and abundant exhibit within the borders of your ever fertile and prolific county. cholce animels. E. A. Bricker, of Wound
phalla, got first on his Poland-Ohina boar, 1 year old and over, and second William Higdon of Richmond, got first and second on boar under 1 year on sow under 1 year, and sweepstak on sow under 1 year, and sweepstakes
on best sow any age or breed. B. F. Walker, of Garnett, got first on sow
1 year and over, first on litter of plgs, and sweepstakes on best boar lany age or breed. In sheep, C. A. Bailey, of
Central Chity, secured on his long-wools four first, two second and two sweep-
stakes. In poultry, Mrs. James Bell stakes. In poultry, Mrs. James Bell
recelved first anid second on her Plymouth Rocks and t

Fair and Flood in Allen Oounty,

## Special Correspondence Kansas Farmer.

The great success attained by Allen county is largely due to the work and
influence of her agricultural society, in nfluence of her agricultural society, in
that it thas conserved to bring out the best of everything for friendly competition and mutual umprovement. fair of this season fully sustains the influence of progressive ideas, advanced through the interchange of thought brough't out by the exhibit of Allen
county's wonderful products. Here was county's wonderful products. Here wa in the most attractive style, and as seeng is belleving, no one could afford t the excessive rains, just prior to dat of the fair, caused the Neosho
rise rapidly, and while the weather was all that one could desire, the on-coming of raging water caused an overflow o the fair grounds, so that by daylight of the second day, everything loose wa
afloat, and the ground covered to depth of from two inches to ten fee of very murky water. The result wa get out susceptible to danger was re moved by boats and otherwise. postponement of the fair was annd all exhlbites that are out of dang will be retained.
Among the exhibitors present on en Harpe, with a cholee lot of Duroc-JerHarpe, with a cholce lot of Duroc-Jer ence J. Norton, of Morantown, with his shropshire sheep, Pea-comb Plymouth toes. Mr. Tredway also exhibited large variety of the finest frult. when in quest of swine or Jersey cattle as he is u pride in producing the best.
The name of Clarence J. Norton is a Kasehold word to every reader of the most valued correspondents. The home-known as the Juinetta stock larm-the 12 th inst., and was more than pleased to be able to verify the fact writer and understood how to interest man in all things, a hard worker, full of enthusiasm, and in this he is most wonderfully assisted by his excellent and amiable wife. He it is who origis also as prolific as it is fine flavore and choice. His crop or thls famous
tuber, this season, will yield 320 bush els per acre. I belleve that had extra attention been devoted to them, it 500 bushels to the acre. Mr. Norton he Kansas Farmer, and the exhibit at the Iola fair would attract attention arywhere. This section of Kansas is becoming a great breeding center for potatoes, and all brought about through the effonts of Mr. Norton. In this vicinEarly Kansas, the Early Ohio, Early Rose, Carman No. 1, Irlsh Dalsy, Mag Morn and Bliss' Triumph.
While at Iola the writer mett B. F.
Pancoast and daughter. They made a cholce exhibit of apples, peache $\begin{array}{ll}\text { plums, grapes, etc. } & \text { She is editor of } \\ \text { the Southern Kansas } & \\ \text { Horticulturist, }\end{array}$ paper devoted to the horticultcural interests of the southern district, and no $n$ itss firth issue.

Reduced Rates to Atlantic Oity, N. J On account of the meeting of the Sov-
eretgn Grand Lodge, I. O. O. F. at Atlan
tic City, N. J., the Baitimore \& Ohio Rail
road Company and conne
 September 25 . ${ }^{\text {The }}$. maintains a double daily
service of fast express trains from Chiservo to the East, running via Washington.
Far full particulars, reservation of Pull-
man car space address L. S. Allen, A. G.


Finney Oounty Fair
The third annual fatr of the Finney held at Garden Clty, Kas., October b 3, 4, 5, 1895.
The annual meeting of the Kansa Irrigation Assoclation will be held October 1 and 2
The display of practical irrigation pumping machinery will be the largest ver brought together in one place in and horticultural products will be the finest ever seen in the Arkangas valley The stock show will be fine. A miniature irrigated farm, on which all kinds of farm and garden crops will be grow-
ing, and the method or irrigation, will be shown dally.
The races of horses and cycles wil Arnish an abundance of amusement. An old soldiers reunion whe hel fires will be enlivened by eminent speakers from abroad. Forty tents will be in place on the grounds for the use of comrades.
A rate of one fare for the round trip has been granted from the Missourl
Hotel accommodations will be ample at rates ranging from 75 cents to $\$ 2$ per This
This will be a falr of education. Take day and learn that the Great Amerirose.
For further information address
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Three months \$12. O'Connor's College of

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Bhould be given at once to any symptom or signs of
disease as soon as they'manlfest themselves. By so dolng you may save much sufferlng and expense.
DR. HATHAWAAY $\&$ CO., the experienced and
estabished spectalists, have devoted years to the established spectalists, have devoted years to the
exclusive treatment of those dellcate and private

## aiseases or men and women. Blood and Ekin diseases, re




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## THE KEYSTONE DEHORNER 

## THE STRAY LIST

FOR WEEK ENDING SEPT. 4, 1895. Stevens county-Daniel Forker cleric HoRss-Taken up by J. A. R14path, of Mos.
Heow,
onoted HORSE-By same, one bay horse, afteen hands
High 7 years ola, branded D. D. H.; valued at 82.50 . High, 4 years old, branded 7 ; valued at sitteen hande Wallace county-Hugh Graham, clerk. Cow-Taken up by J. W. Bously, in Sharon
Springs tp. (P. O. Sharon Bprings) July 25. 1896. one Fith ine underneath on left side; valued at $\$ 12.50$.
COW ind
 Cherokee county - P. M. Humphrey, clerk. PONY-Taken up by G. W. Llothtenthaler, In Gar-
den tp. Julk 16, 1895, one black horse pony, 10 ourteen
hands high. three-link brand on left Bhoulder; valued at 112.50.
FItLY. By same, one bay flly. white snip on
nos, fourteen and a half hands high; valued at FOR WEEK ENDING SEPT. 11, 1895. Labette county-J. F. Thompson, clerk.
MARE-Taken up by F. A. Peffey, in Liberty tp.,

Montgom
MARE-Tary county-J.W. Glass, clerk.




 Hodgeman county - John L. Wyatt, clerk. COLT-Taken up by Daniel Gleason, Jr., In Ster-
ing tp., Auguat 15, 1895 , one dark brown mare, no

 hind foot white, no brands; valued at 815 .
Wallace county-Hugh Graham, clerk.

 FOR WEEK ENDING SEPT. 18, 1895. Rice county-Robert Findlay, clerk.
 Labette county-J.F. Thompson, clerk. STEEER-Taken up by Thomas Ryan, In Mount
Pleasant tp. Auguat 29.189, one red and whte
steer, 3 years old, branded T behind right shoulder;䢒 Brown county-J. V. McNamar, clerk.
 Cherokee county -P. M. Humphrey, clerk. PONY-Taken up by F. F. Burges, in Spring Val-
ley tp, one osorrel pony mare shod all round, white
spot in forehead, halter and strap on.

## THE

## Kansas City Northwestern

## RAILWAY COMPANY

Is now running its trains to and from without transfer of passengers or bay gage, and connecting with all lines for

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As good service and low rates as offered by our competitors.
For tickets or full information, call H. C. TOWNSEND, M. K. FLEMING,



## 






 Oats met with good demand and sold urday's prices. There were tew oars of mixed oats on sale
Sales by sample on traok, Kansas Olty: Na
 1 oar. 180: No. 4, nominally, 138140; no grade,
nominally 102120: No. 2 white, 6 oars oholoe
 1730, 1 oar 180. Hay-Reoelpts, 133 oars; market easitir: 4mony,
10.00 No. 2 , 88.0028.50, tanoy pratrie, 83.00 冗 0.50; oholee, 86.50 ®0.00; No. 1, 84.50@5.00; No. 2. 28.50@4.00; packing hay. 83.00 ख3.50.

## Kansas city Produce

KassAs Orrx, Sept. 16 - Butcor-Creamery
butter advanced $\%$ to to-day and is firm; extra

 stook. 120 per doz.
Poultry - The supply of spring ohickens was vent
outside of a few orders there was no demand Moderate receipts to-morrow will oause a deOiline, as the than Chloago or New York. Hens,

 sprtngs, 70. Plgeons, 750 . 081.00
per doz.
der


 bocebso per bu.; 850 por $\%$ bue box: oommon
grades, pricoes uneven: fanoy
packed stand




-

## Der peo k: $81.00 @ 1.25$ per bu

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Kansas city, Mo Stock Yards
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 TEXAS RANCH, near San Antonto, wit


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HRESHER BELTS, TANK PUMPS SUGTION HOSE, VALVES,
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If you need anything in this line it will be to your advantage to get our prices before placing your order. A
full line of Engines, Boilers and Pumpe in stock.
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fications and get our figures. fications and get our flgures.
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## 7 Results prove conclusively that by the use of fertilizers • rich in potash the crops of <br> Wheat and Rye <br> and all winter crops äre largely increased and the soil is positively enriched. We will cheerfully mail oir pamphlets on Potash, its Use and Abuse on the Farm, free of cost. They will cost you nothing to read; and will save you dollars. GERMAN KALI WORKS, 93 Nassau Street, New York.

Catalogues of Cherry Orchard Poland-Chinas
 ${ }^{123}$
W. H. WREN, Marion, Marion Co., Kansas.

## Ship Your Produce Direct TO MARKET. It is the only way to get the true value of what you have to it every day. We receive and sell: Butter, Eggs, Poultry, Veal, Game, Hay, Crain Beans, Seeds, Potatoos, Broom corn, HIdes. Wool, Green and Dried Frult, ${ }^{\text {Oegetables. or any thing you may have to ship. We make prompt sales }}$ atthe Highest mariet Price and send quick returns. Write us for Prices, shipping Tags, or any information you may want. <br> SUMMERS, MORRISON \& CO., Commission Merchants, 174 South Water Street, CHICAGO, ILL. <br> References:

## THE =



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 The Warner Lister Cultivator,
 Portable Farm, Fleld, Garden and Yard Fence. Apk your dealer for these goods. If he does not
carry them, write to us. Seventh and
Wyandotte Sts., Kallsas Bity, MO.

## THE UNION STOCK YARDS, CHICAGO, <br> (Consolidated in 1865 .) The largest 1ive stook market in the worid. The center of the puatness syatem from which the food produots and manufactures of every department of the live stook induatry

 Alcomm. Yards the most acceessible point in the country. The capocto or the yaras, the frolilties for unloading

 formation concerning Chloago markets.

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N. THAYER, JOHN B. SHERMAN,
```


## Horse Exchan

 WALTER DOUGHTY, JAS. H. ASHBY, D. G. GRAY, Ass't Seoretary and Ass't Treasurer. General Superintendent. ABs't Superintendent.
## The Kansas City Stock Yards

are the most complete and commodious in the West,
and second largest in the world! The entire railioad system of the West and Southwest centering at Kansas City has direct rail connection with these yards, with ample acilities for receiving and reshippin

## Offcial Recelpts, 1894 Blaughtered in Kansas Oity

8old to foeders...
8old to nhlpper.
Total sold tin

| Cattle an. calves. | Hogs. | Sheep. | $\underset{\substack{\text { Hornes and } \\ \text { mules. }}}{ }$ | Cara. |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{array}{r} \mathbf{1 , 7 7 2 , 5 4 5} \\ 969,646 \\ 80,181 \\ \mathbf{1 , 6 7 7 , 7 9 2} \end{array}$ | $\begin{array}{r} \hline \mathbf{2 , 5 4 7 , 0 7 7} \\ 2,050,784 \\ 11,496 \\ \mathbf{2 6 8 8 . 6 1 6} \\ \mathbf{2 , 5 3 0 , 8 9 6} \end{array}$ | 589,555 503,116 | 44,237 28,903 | $\underline{107,494}$ |

CHARGES: YARDAGB, Cattle, 25 cents per head; Hogs, 8 cents per head; Sheep, 5
NO YARDAGE CHARGED UNLESS THE STOCK IS SOLD OR WEIGHED.
C. F. MORSE,
General Manager. $\underset{\text { E. E. RICHARDSON, }}{\text { Becretary and Treasurer. }} \begin{gathered}\text { H. P. CHHLDD, } \\ \text { ABeistant Gen, Manager. } \\ \text { EUGEN. Buperintendent. }\end{gathered}$


Please mention "Kansas Farmer" when witiun to our adrertisers!

## The Youltry Yard.

BLACK SUMATRA FOWLS. | Their Beanty so |  |
| ---: | :--- |
| shadows | $\begin{array}{c}\text { Great } \\ \text { Thelr Utillty. }\end{array}$ | One of the rare and most beautiful owls in this country is the Black Sumatra. Rare breeds run the risk of becoming more rare each year of their existence, because continued close inbreeding is likely to be followed even to the verge of extinction, if happily it does not go beyond the verge and lead the better the opportunities of obtainthe better the opportunities of obtaining fresh blood, and the better the the breed. It is well, however, to rea member that even closely related fowls, if bred in widely separated and very dissimilar places, surrounded by a very


black sumatra fowls.
different environment, when brought together have something of the effect of a union of unrelated fowls. Environment seems to have a modifying
power upon their blood, and to obviate power upon their blood, and to obviate
some of the ills of inbreeding. The some of the ills of inbreeding. The
Black Sumatra is suffering somewhat Black Sumatra is suffering somewhat
from the effects that are common ta from the effects that are common to
rare breeds. Its size is hardly what its admirers could wish it to what it was ten years ago. It is now a small fowl, and yet withthis breed thet were seen birds of this breed that owing to their plumace, size, and, owing to It is also possible that its really large. It is also possible that its an outcross with a large, vigorous, short-legged Black Game, breeding out, of course, the antagonistic characteristics which such a cross might introduce. The beauty of the fowl warrants a determined effort on the part of its admirers to make it all that it is capable of becoming. 'The plumage is a solid black, as lustrous as any color can be, shining and shimmering in the sunlight. The tail of the cock is long, full and carried rather low, the beautiful sickles and abundant coverts almost sweeping the ground. The comb is triple, not as perfect as the pea comb, and might be improved by careful selection. The legs are rather short and, as they ought to be, black in colar. The outlines of the fowl are graceful in the extreme. One pecullarity of this breed, which is possessed by some pheasants, but which as being possessed by other recollect as being possessed by other
fowls, is the number of spurs the cock fowls, is the number of spurs the cock
has. In nearly all of our domestic fowls a single spur upon each shank serves the cock as a weapon of offense and defense, but nature has provided more frequently having two spurs upon each leg, and sometimes three. Some have but one on each leg, and the extra number is of no practical or ornamental value for a domesticated fowl Many have argued from this fact and from the peculiarly long and some Sumatra is descended from the pheasant, but while pheasants and domestic fowls do sometimes produce hybrid ofrspring, I believe there is no recorded instance where such offspring has been fertile. Every one has proved to be sterile, incapable of breeding with either parent race, and of course
would be incapable of breeding with would be incapable of breeding with
another hybrid of like parentage. Hyanother hybrid of like parentage. Hy-
brids are sometimes fertile when bred brids are sometimes fertile when bred
with either parent, but when bred inter se arealmost invariably sterile. No there is no good reason for supposing that the Sumatra is of pheasant origin. The Sumatra is a plump fowl, and though small of poultry. It has the reputation bit of poultry. It has the reputation sized white eggs. But it is not kept so much for its practical as for its ornamental qualities. It illustrates very

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well the ditticulty of accurately classt ying fowls into practical and ornamental, for all practical fowls are more owls are more or less practical There is no breed or variety of domesti fowls that has not both utility and beauty, and classification upon such principle can be made only as utility or beauty seems to be the paramoun quality, and sometimes these element seem so evenly balanced that one is in doubt to which class to assign the fowl. In the case of the Black Sumatra, however, the beauty of the fowl is so great that it fairly overshadows its utility, and one does not hesitate in classifying it as an ornamental fowl.-H. S. Babcock, in Orange Judd Farmer.

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