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WILKES, FREE TRADE ANA O.S. NLOOD

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 STANDARD POLAND-CHINA HERD.



 SUNNY SLOPE FARM, EMPORIA,





 (Broders' Dwroctory contunued on paso ial)
most likely to be found as an impurity
along the midrib on the back. The
principal leaves on the stem have the unusual habit of twisting so that the upper part of the blade becomes vertical. They dlso point north and south, hence the name compass plant. The white, milky juice has suggested the name milk thistle. Both of these names are incorrectly used in this connection as they are properly applied to very different plants.
Unilike most annual weeds, the Unickly lettuce is very troublesome in eadows and permanent pastures. neadows and permased crop is often lover in ruined. Oats and other spring nrain crops suffer more or less damage. Shep and sometimes cattle will eat Sheep and soly lettuce, and in some the young prickly lettuce, and is been ocalities in effective in keeping it found very effective in keeping it own, especially thorough cultivation is impossible. Repeatedly mowing is impossible. Repeaters begin to the plants as blossom wdue them. Thorough cultivaually subdue hoed crop, by means of tion whe the soil may be in which to germinate, will be found most duced io ge first plowing should be effective. shallow, so not no bury the seeds too deep. Under no circumstances should deep. mature seed-bearing plants be plowed under, as that would only fill the soil with seeds buried at differen depths to be brought under conditions favorable for germis. Mature plants for several years. Mature plants
should be mowed and burned before shoula bo The andears as an implowing. in clover, millet and the heavier grass seeds, and the plant is doubtless grass
most frequently introduced by this means. As the seed may be carried a means. Aistance by the wind, the plants long distance by out of fence rows, waste land and roadsides.
bracted plantain (Plantago aristuta)
This plant, although a native of the Mississippi valley and well known to botaniste
present century, is practically new as a weed. In a very few instances its seeas purity in clover seed, but it is not named in any of the numerous lists of weeds of the United States. During the past season it has appeared in abundance in meadows, pastues Marylawns in many localitiea from generally land to Illinois. Although geners exreported as new, isted before in small quantity and with isted before in smail quanany of these places. In some instances, however, it is known to have been introduced
during the past season in lawn grass during
seed.
The bracted plantain is an annual sometimes a winter annual, and in some cases the roots are apparently perennial. The leaves are not killed
even by severe frosts. It is closely even by severe frosts. It is closely
related to the lance-leafed plantain, or related to the lance-leafed plantain, or rib grass, and to the woolly plantain The leaves, appearing al most like a
tuft of rather thick, dark green grass tuft of rather thick, dark green grase leaves, spring from the apex os a
what thickened root. The seed-bear what thickened root. welve inches in ing stems, humbering five to twentyfive on each plant, as in other plan tains, are leafless and naked near th base. At first the flower spike is con tracted and short, but at maturity it is two to five inches long and ch flower with small flowers. Below each flower is a narrow green bract one-half to one plume-like appearance. Each flowe produces two seeds in an egg-shaped capsule which opens
dome-shaped lid with the persistent, dome-shaped lid with the persistent, papery corolla lobes faling away this kind of parachute eables the seeds to be carried a short distance by the wind. They usually fall near the parent plant, hence after the first intro duction the bracted plantain grows in dense colonies, covering the ground so tation. An average plant produces about fifteen flower spikes, and an av erage spike bears about 100 flowers or 200 seeds, making a total of about 3,000 seeds to the plant. The seeds are dark brown or nearly black, oblong, concavoconvex, rounded at the ends, and about
one-twelfth of an inch long. They are

## eeds.

The bracted plantain is so low and inconspicuous and its leaves are so much like those of grass that it is not easily discernible until the fiower sikes appear. Hand-pulling and burning is perhaps one of the best remedies where the plants are not the abornanhly If the land has become thops will probably be necessary to clear it out. In permanent pasture, mowing the plants as the seed stalks first appear win kep them in subjection. The mowal times, have to be repeated several smes, up seed stalks from May until Novem-
ber.
The reports concerning this plant during the past season indicate that, if unchecked, it is likely to prove as
troublesome as the rib grass which has troublesome as become so widy distributed, chiefly in clover seed. The seeds of the bracted plantain are of nearly the same size and shape as those of the rib grass, and as they ripen throughout they are just as likely to be harvested and threshed with the clover seed.

> a with the colive (To be continued.

## Recent Progress in Soil Analysis.

The usefulness of the chemical analy sos of soils in practical agriculturo las long been a theme of contentio the advocates of chemical analysis have contended that the agricultural value of a soil could be easily deduced from the data afforded by analysis. On the other hand, it has been affirmed with equal persistence that the data o 3 chemical examination afforded no just criterion of the availability of plant foods found in the sample. It is not the intention here to review these discussions, but it will be sufficient to say that there is a certain relationship hetween the quantities of plant food productiveness of the soil.
It is so evident, however, that this relationship is not constant that it is not necessary to cite any proof. The physical state of a soil, the climatic condition prevailing, the character of crop have all to be considered and all have their influence. It has long been known that the supply of water which is furnished to the plant has more inthance upon the amount of therility of the soil itself. A given field which will in one season produce a maximum crop will with practically the same amounts of piant food available in the soil in the very next season give a minimum yield. It taking into consideration all the condi tions above mentioned, no safe prognostication of yield can be based upon chemical data alone.
The principies of chemical analysis of a soil bave been firmly established and especially in this country chiefly through the researches of Hilgard and Peter . While the methods of examination may vary in unimportant pa procedure have remained the same for many decades. It is not believed that there can be any very important mendment of a useful nature made to the methods already in use.
The digestion of a soil of a given aegree or hydrochloric acid of such a density as to be practically preserved at a given point of saturation on lugh little to be desired in the way of scientific accuracy in securing the soluble constituents of a soil. On the other hand the processes of bulk analysis are based upon the well-known principles of examination of minerals which have been so well established as to have been so little change during the past few decades, nor is it likely that they will suffer any great change in the future.

We must look, therefore, for prog ess in the line of soil analysis in some been so thoroughly investigated in the past.

## ASuffererCured

Every season, from the time was two years old, I suffered dread fully fnom erysipelas, which kepi growing worse The bones softened oo that they would bend, and several $f$ my fingers and

## my fingers ar <br> this cause. On my hand I carry large

## AYER'S

Sarsaparilla, would be sores, provided I was alive and able to carry anything.
Eight bottles of Ayer's Sarsaparilla cured me, so that I have had no return of the disease for more than twenty years. The first bottle seeme use of it has perfected the cure" O. C. DAvis, perfected the is.
Wautoma, Wis.

## AYER'S <br> AYER'S PILLS Promote Good Digestion

ecent investigation may be mentioned wo which are of prime importance. In the first place, attention is iavited o the attempts to imitate in the chemcal laboratory more nearly the solvent action of bio-chemical activity upon the plant foods present in the soil. Every chemist has been struck with the fact that the achievements of biochemical activity are far more wonder ful in their nature than the most brilliant achievements of the chemica laboratory. We find passing into soluton in the juices which which are through plants, substances which diffi ulty and at the highest temperatures
 in the vegetable world striking in tances of metabolism which any chem st, even the most distinguished, woul ge glad to imitate. We find silicates of the most refractory nature dissolve and in this state passing to form new combinations in various parts of the plant, especially in the bark and the eaves. We find in the same juices the alkalies which only a short time before were united in the most stable chemical compounds in the mineral fragment poun earmis crast. Wroken up, the pounds of mineral acias broken opganic cids hem st all and the bases with which they were combined passing in organic orms into the vegetable organism Evidently, therefore, in attempting o imitate in the laboratory these complicated chemical phenomena we should not lose sight of the fact that it is not possible for us to measure by our ordinary methods the power of vegetable metabolism. Nevertheless we are justified in assuming that as a rule boiling concentrated hydro-chloric acid will attack mineral fragments in a way different from the organic acids which are brought in contact with them by the rootlets of the plants. Acting on this idea, it has been suggested, especially by Dyer, to substitute organic acids or their salts for mineral aciditie determining the available quantios potash and phosphoric acid With this idea in view the chemists belonging to the Association of Official Agricultural Chemists have been during the past year engaged in ing the merits of these methods o determining solubility
It is evident, however, that no elubility of prarily determining can prove of actual value unless it be tested against the actual capabilities of plant cting upon soil of the same descrip tion. It is with this end in view that the Department of Agriculture organ ized a system of soil analysis in which

The leaves are oblong and without by a base with two ears. They are prickly along the wavy margins and
the chemical results obtained in the laboratory are checked against the actuat results in pots. These experiments have now been under way for two years, chiefly, however, with the idea of testing the proper processes to be employed. This having been, with a certain degree of succeess, accomplished, the work is now considerably extended. A vegetation house has been built These pots are kept on trucks running on rails. During the day they are run out into the open air and sunshine; during the night and in time of storms they are kept in the vegetation house,
which is covered with glass. The soil which is contained in each of the pots is subjected to chemical examination in various ways and with various solvents. In this way it is believed that the actual available plant food which a soil contains, as shown by the character of the crop grown, will be by some of the methods employed indicated with a considera
Another most important step forward in the examination of soils consists in the methods which are now employed ity of the nitrifying organisms which they contain. As is well known, the nitrogen which plants use as food can only be assimilated after it has been oxidized by passing through a vegetable organism of a lower nature. The process of changing organic nitrogen, which plants cannot assimilate, into their needs, is called nitrification.
The process of nitrification consists place, organic nitrogen is in the first place, organic nitrogen is changed into a number of organisms existing in the soil, the mostactive of which is the bacillus mycoides. The ammonia thus formed is next converted into nitrous acid by the action of a genus of organ-isms-nitrosomonas. The nitrous acid produced as above described is oxidized nitrobacter. But it is not our purpose here to discuss the processes of nitrification, but rather the methods which for these organisms. It will not be long before a chemical analysis of a soil will not be considered to be complete until the sample has been of the nitrifying organisms which it contains. In order to make such an examination of practical value, the such precautions as to exclude any contamination, and the cultures for developing the micro-organisms must all be oping the micro-organisms must ation In order to secure this uniformity, the Department of Agriculture has developed a method of taking the samples in sterilized tubes, under precautions if the directions are carefully followed. The samples of soil thus obtained are used for seeding culture solutions, and the number and vitality of the nitrifying organisms in each sample can be determined by noting the time at which nitrification begins in each of the
solutions, and by the seeding of subsolutions, and by the seeding of sub-
cultures from the original cultures employed. This work is now going on in the and subsoils taken at ther rical tural experiment stations of different States, and representing the same samples. that are employed in the pot
cultures and for chemical analysis. cultures and for chemical analysis.
proceeding in this way, it is seen that a uniform method of chemical and bacterial examinations of the soil is tions are checked directly against the products of vegetation secured in the experimental pots.
Further progress has already been recently made, especially in this coun-
try, in the physical analyses of soils, try, in the physical analyses of soils,
chiefly through the researches of Whitney and King. The separation of a ferent degrees of fineness will give data of great value in respect of the
capabilities of a soil for holding moisture and delivering it to the roots of growing plants. All the physical data obtained from the examination are of value in the final judgment, and should be considered in connection with the
chemical and bacterial data obtained chemical and bacterial data obtained
as above described.-Scientific Ameri-

## The Stock Interest.

THOROUGHBRED STOOK SALES. Dates clasmed only for sales wn
skprkmazr o-Waltor Latimer, Garnett, Kas, Po-
 W. Null, oceessa, Mo., PolandR. Kinlough \& Sons, Rlehmond, Kap.
swine.
M. Lall, Marshall, Mo,



## an ELK OOUNTY stook farm.

Editor Kansas Farmer:-As the columns of the FARMER are ever open to the voice of the people, and knowing that its army of readers includes many iving in other States who are always ike to Elk county stock farm, and illustrating what Kansas, becked by providence pluck and perseverance, will do for those who worship at her shrine.
Elk county is in the second tier counties from the south line of the State and 138 miles southwest of Topeka. It has three railroads within ts borders, and plenty of wood, water and native coal. Howard, a littie city and about, 200 people, is che county seat and is on the Santa Fe railroad. That our farmers are an intelligent class is proven by the fact that in so many proven by the fact that in so many
homes are found the KANSAS FARMER The county is well adapted to the purThe county is well adapted to the pur-
pose of farming and stock-raising and osese of are our principal industries.
these these are our principal industries.
But it was not so much of the county But it was not so much of the county
in general that I would speak as of one farm in particular, because this farm and its stock is destined to become famous, and in the near future th

HANNA STOCK FARM.
county, Kansas, will be as famil iar to breeders of fine stock as some of the olde
States.
This farm consists of 1,760 acres of This farm consists of 1,760 acres of
fine valley land, joining the town of Howard on the north and extending for three miles up the Pawpaw valley, Pawpaw creek winding through the farm the entire distance. Your corre-
spondent had the pleasure recently of spondent had the pleasure recently of
riding over the entire farm and is of riding over the entine that a better-kept farm is the opinion that a better-kept carm
hard to find. of the land in cultivaion, we found 400 acres of corn, all which is in fine condition. The greate part of the corn was listed in and stoo the early dry spels without serious
effect. There is also 100 acres in sorghum, 100 acres in wheat and oats, 200 acres ords. Along the creek is about 120 acres in timber. The remainder of the land is in tame and native grass pastures. One hundred acres of alfalla have been seeded this season and it is the intention of the proprietor to put out 100 acres each year until the farm will have about 600 acres in that great
farmer's friend-alfalfa. The ground farmer's friend-alfalfa. The ground
is put in the best possible condition for receiving the seed. The work on the farm gives employment to from ten to twenty hands the year around, who
are under charge of J. A. Oliver and are under charge of J. A. Oliver and twenty milsy tence enclosing thirty separate fields and pastures. But the glory of the farm, and that which will give to it its future greatness, is the
fine stock to be found on the immense blue grass pastures. Here we find that which would delight the eye of the lover of fine cattle-200 head of thoroughbred Short-horn cattie of the many of noted herds as that of Col. W. A. Har ris, of Linwood, Kas., F. Bellows, of Maryville, Mo., J. N. Potts \& Son, of Albia, Io wa. Among the noted females of most striking individuality we note Spira, by imported Royal Pirate, dam imported Stephenotus, and Sempstress of Oak Lawn and her two calves, al
ineal descendants ot Amos Cruick shank's celebrated Secret tribe. Some Cruickshank, Lavender and a num-
ber of pure Bates-bred females of Col. Harris' breeding from such noted families as the Wild Eyes, Kirklevington, Waterloo, Duchess, and Rose of Sharon are such as to especially at tract the attention of the visitor. At the head of this splendid herd is found two massive bulls-pure Cruick-shank-of Col. Harris' breeding, sired by Golden Knight and imported Spartan Hero. Thus it does not need a prophet to foretell what the offspring of such noted strains will be, nor a very
great stretch of imagination to predict the future reputation of the Hanna stock farm. Every year the herd has been carefully culled and only those ol the purest types have been kept for breeding purposes, until to-day the herd presents the appearance of perherd will go out over Kansas and other States a class of thoroughbred cattle as will do honor to the State and the Kansas and show their faith by their works.
Nor have Hanna \& Co. confined their efforts to cattle alone, for we were ron a number of registered Perche Bendigo. Then there was a fine herd of high-grade Percheron mares and colts, some stallion colts, 1 to 3 years old, by Bendigo, and some standardfashionting mares and coits of the mos horses abe perfg of their kind and are noble animals. The stallions in use are Vigoreux, a splendid imported Percheron of grand breeding qualities Phallas and Highland Boy representing the Dictator and Wilkes branches grand Hambletonian family. It is a cattle and horses as they wander orer the big blue grass pastures in which are found grass pale are found several lakes and ponds of
water. The farm is so arranged that pasture joins pasture and field joins field in convenient form.
aff course the hid the of hogs, and here we find some 500 heal of this stock running on alfalfa, growing and thriv ing without grain of any kind. One hundred brood sows are kept and every convenience is found for their care and
comfort. About 700 head of hogs go to comfort. About from this farm annually. We noticed one field of alfalifa on which were feeding about 100 head of fine Poland-China hogs-great, sleek, fat ellows, and in another were a number of large sows and about 200 head o pigs following them-literally a moving mass of blackness they appeared at a distance. The alfalfa fields are so that the ha connection wccess to water and shado and come and go at will. Back of all this vast business stands s. C. Hanna, of Howard, the moving and guiding genius, who, thirteen years ago, with small capital in cash, but with a wealth of pluck and indomtable perseverance and an immense stock of faith in Kansas, began laying the foundation for the Hanna stock farm. With him is associated George Hanna, of Bloomington, III., an exper These men have steadily adhered to the one purpose of building up the stock industry of Elk county, and in the near future will distribute a class surpassed in the United States in purity of blood and thoroughness of breeding. Lovers of such stock will be highly please with a visit to
Hanna stock farm, of Elk county, Kan Hann.
sas. A. S. Koonce.

The National Berkshire Record.
We are in receipt of Volume II. o the "National Berkshire Record," which is now ready for delivery to
breeders. This volume is a book of 285 pages, an increase of sixty-three pages over volume I. Berkshire breed ers will appreciate this "Record" from the fact that it shows a pedigree of
four generations. Volume II. by mail four generations. Volume II.
$\$ 2.65$, or both volumes for $\$ 4$.
The Secretary, E. K. Morris, Indian apolis, Ind., gives the following fact and figures regarding the Nationa Berkshire Record Association:
"The National was organized March
1893, at Piqua, Ohio, with eight
stockholdors from two States-Indiana and Ohio. The first annual meeting was held at Indianapolis, Ind., February 14, 1894. The as8ociation then had fifty-three stockholders, representing eleven States. The second annual
meeting was held at Bloomington, Ill. meeting was held at Bloomington, Ill. February 13, 1895. The association then had sixty-three stockholders, repthis circular is States. On the association has seventy stockholders, representing seventeen States. Volume I. was issue in May, 1894, having 222 pages, and now volume II. is ready for the breeders, with 285 pages, an increase of sixty-three pages. The above facts in dicate what the National has been doing and gives the breeders a genfle hint that it is the leading Berkshire record. We are numbering pedigrees for volume III. Send in your pedigrees and orders for the volumes. If you are wating any information on re cording, pedigrees, Berkshires o Berkshire breeders, call on the Na tional."

## List of Kansas Fairs.

Following is a list of fairs to be held in Kansas during the present year, their ates, locations and Secretaries, as reported to the State Board of Agriculture and fur-
nished to the public by Secretary F. D. Co. nished
burn:
Allen County Agrioultaral gooiety, C. L. Whit-
Cer, Becretary, Iola, Beotember 11-13.




 Crewtord County Agrioultaral Societs, John
Viets, GIrard, Angat $27-30$.



Jert itorson Connty Agricaltural and Meohanical
Jasoolation George A . Patterroon, OAkaloosa,

 Mand Cinty. Oontober 1-4.itural Society, Manly I.
Hill Peabody, September $23-27$.




## Erio, September 3.6 .The Chanate Agrionltural, Fair, Pater oand Driving Asooclation, R. C. Raw- 

 Barlingame (no dato set).





To make your business pay, good health is a prime factor. To secure good health,
the blood should be kept pure and vigorous by the use of Ayer's Sarsaparilla. When the vital fluid is impure and sluggish, there can be
tion.

The Trust After No-To-Bac.
Chleago Special.-Reported here to-day
that a large sum of money had been offered for the famous tobacco habit cure called No-To-Ba, by a a syndicate who want to take it off the market. Inquiry at the gen-
eral offces revealed the fact that No-To-Bac eral offlces revealed the fact that No-To-Bac was not for sale to the trust at any
price. No-To-Bac's success is marvelous. Almost every Druggist in America sells No-To-Bac under guara.
habit or refund money.

## "Among the Ozarks,"

the Land of Big Red Apples, is an attract. ive and interesting book, handsomely illusIncluding the famous Olden fruit farm of 3,000 acres in Howell county. It pertains to fruit-raising in that great fruit belt of America,
and will prove of great value, not only to
trith rruit-growers, but to every farmer and
homeseeker looking for a farm and a nome Mailed free. Address,
J. E. Lookwood, Kansas City, Mo

## Irrigation.

## THE GOODLAND MEETING.

 The State irrigation plant, at Goodand, Sherman county, was officially opened to the inspection of the public, by order of the Irrigation Board, on Tuesday, July 9. The event was made the occasion for an irrigation meeting, which was largely attended. The following reports of the addresses deliv-ered will give an idea of the scope and spirit of the discussion:
 BoARD OF $\triangle G R I T C U L T U R E$.
To come here, in the heart of the mythical desert of our school days, and witness the inauguration, under offlcial auspices, of
an experiment whith, in the not distant an experiment whith, in the not distant
future, must exert a wide-reaching influence future, mustexert a wide-reaching infivence
toward making it rellably productive and available as homes for the homeless, is a memorable event in the life of any man. To come at such a time, as the invited guest of a people who, by their splendid courage, untiring energy and broad intelligence are transforming this region from an Indian and buffalo range into an abode for a high civilization, wich genial skies, is a rare privilege ; neath such genial skies, is a rare privilege;
to be the servant of and a co-worker with such a people, in such an age, is indeed a great honor.
Here, under the direction of our deserving and capable Board of Irrigation is begun what can scarcely fail to be an instructive undertaking, in pumping water for agricul tural purposes from an extreme glad many such experiments are to be made at the State's expense; yet, as in all these under takings, I am sure the larger and better measure of success must come from individual enterprise and individual effort. The State, however generous, however far seeing, however enterprising, can at bes do but little, and we m in our own way, and that we will do this triumphantly let no loyal citizen for a moment doubt
Among the ways and means toward this end will be the bringing of water to th surface from what, so far as we know, is
 necessarily all of it, either, but considerable proportion. In this county of Sherman you have, of as fair
land as the sun ever shone on, the land as the sun ever shone on, the
making of 17,280 forty-acre farms, and with a fourth of this irrigated they would sus tain easily a rural population of 90,000 to 100,000 , exclusive of the people in you prosperous towns. It has been demonstrated that a man may have 640 acres o land and fail of a living, but no better demonstrated than that the man with ten propwith brains, is in position to defy W street, to pay his mortgage, buy his wife the well-earned silk dress, and give the children a college education.
Irrigation from these deep wells, however successful, will be but an adjunct to Wur agriculture and not a main dependence. We must learn to impound the rain waters, immediate prey of sun and wind, but by deep tillage. One of our foremost needs is more thorough farming; possibly a more liberal blending of mind with our musele, soil and water, and thereby obtaining two bushels of corn or wheat from the same land from which we grew but one before. This can be done, and more, and the tendency in agriculture to-day is all in that diforward movement, as I see it, is that one or two years of abundant rains are likely to cause a loss of interest and faith in the necessity for irrigation work, which would be a most unfortunate mistake. Do not let a rainy season switch you off from a determination to insure $y$ ourselves against the vicissitudes of a dry one. Let us avoid the
folly of the foolish virgins. The people in Sherman county can be congratulated upon being in the front rank of those who are determined to find the better way, and a splendid future awaits them and theirs. There never was a more favorable time for becoming a Kansan or for obtaining a foothold, a home and identity among a people and in a commenwealth of such high prombrightening prospects.
ADDRESS OF E. B, COWGILL, EDITOR OF
$\qquad$
You have broughthere, for some purpese a lot of your eminent servants, who are arrayed now at my back upon this platform. Your Congressman-at-Large, Col. R. W. eastern part of the State-has spoken and has told you that the sight of your pumping plants, your irrigated fields and him that you have found the way to prosperity and to the highest type of civilizaperity and to the highest type of civiliza-
tion. Secretary Coburn, the efficient head of our State Department of Agriculture,
has come, has seen and has been conquered.
Senator True, of Wabaunsee county, a Senator True, of Wabaunsee county, has seen and will go home and irrigate. Do you know this reminds me of the Irishman who was showing his ssilor friend The sailor was greatly surprised at the appointments. The statues surpassed anything he had ever seen. The grandly arched celling suggested the arch of heaven. The ever-burning candles, the holy water, when he reached the door he said: "It

## windmills. I suppose every one of

In coming to this county many deserted homesterds were passed. Ah, the pathos of the story of these humble ruins! With fond hopes of establishing a home, a farm home with all that it implies of blessedness, the brave man and his unflinching wife pushed out into the arid plain. The grass was perhaps as green as now, and the hope
was that this would become a humid rewas that this would become a humid re
gion. Bravely they plowed and planted; gion. Bravely they plowed and planted;
bravely they struggled and sacrificed; bravely they suffered and hoped; despair-
the people of Sherman county on their prosperous future because they have the com mon sense not to forget or misapply in the years of abundance the lessons of the Ing In this connectlon I want to say some thing from my own point of view as a geologist, to encourage you who are fighting forces of nature to the car of our materia prosperity and so aid in advancing ou civilization. Goodland is not far from the center of a district which is probably the best-or nearly the best-supplied with

state irrigation pumping plant-LOoking east
bates the divil, don't it Moike?" he intintion," said Mike
Now, I don't know just why your fellow citizen, Mr. M. B. Tomblin, brought all hese notables here to-day, but I suspect that if Secretary Coburn should say to Congressman Blue: "It beats the desert on't it, Dick?" Mr.
"That's the intention."
But the question h
But the question has been asked hunpeople make a living in western Kansas, or must they get out?" The State Irrigation Board has tried to help answer it and we trinceristo-day to witness the beginning of there says, officially: "There is an abundant supply of water at considerable depth." But you people of Goodland have not waited for the offlcial answer. You made available and have asked Messrs. Frost, Sutton and Tomblin to swear to your statement. You have done more. At your city waterworks you have pumped water to the flooding of the streets. I have counted the strokes of the pumps and computed their discharge and ind it to be at the rate of 360,000 gallons per day. You can lons of water. This is all pumped from an area of less than four square rods.
Though it has rained all day your ca riages have taken us to see some of the
irrigation plants of this vicinity. We have irrigation plants of this vicinity. We have
seen a sixteen-foot windmill at Commis-
ompty-handed, but to find the place they once occupied now filled by others and yet thers as empty-handed as they.watching On opening. Opportunities for the
ompty-handed are now ten times as scarce as ten years ago.
But now and here, on the high plains of the highest county of Kansas, nearly 4,000 feet above tide water, you have found the wonderful underflow, you have harnessed the wind to your pumps and have demonmake that an living and more, and you will here develop the highest qualities of the race. You have attacked the problem
of irrigation ait its naruesu, you nave tered into the contest with nature for her you will win, and that people in the westernmost limits of Kansas need not move away but may remain and prosper.

PROF. ROBERT HAY'S ADDRESS
The coming of representatives from Missouri river towns, from the Arkansas valley and from central Kansas, to witness near the Cacts of the mid-plains region, is something of importance to be observed something of great value to be considered. The speeches in the afternoon session touched on matters that I intended to discuss, but shall now only seek to emphasize such of them as may incidentally come up, such reference to the demonstrated water
supply of this region and the use to be made
underground water of any part of the great plains. The district may be roughly
defined as that lying betweeen the Smoky defined as that lying betweeen the Smoky
Hill river and the South Fork of the Republican, including Sherman county and parts of Cheyenne, Wallace and Thomas counties, as well as parts of Colorado. The underground water, called the sheet water or the underflow, of this region, is reached by hundreds of wells, which are not so deep as you go west but increase in depth
northerly. The wells about Goodland, from 140 to 150 feet deep, may be considered as an average of the district. The wells of the farmers and stockmen usually go from five to fifteen feet into the water-bearing anda and cravels. They never go to the bottom of the water supply. Tney go till thoy
have enough for their purposes. The wells have enough for their purposes. The wells
in the city, belonging to the waterworks, to in the city, belonging to the waterworks, to
the Rock Island railway, and to a few individuals, go into the water thirty to forty feet and are 175 to 185 feet deep. The new State well, with a total depth of 166 feet, has a similar supply of water. From what I know of scores of private wells in this and neighboring counties, I am confident that their supply can be increased, if they
need it, by going ten, twenty or thirty feet deeper. I am inclined to the opinion from what I know of the outcrop of the strata in the valleys and the kind of material passed through in boring the wells, that the water sheet to which the wells penetrate is not less than sixty feet thick and may be in parts eighty feet or more. There are parts

state irrigation pumping plant-Looking west.
sioner Tomblin's place, and have seen growing as fine vegetables and as fine a prospect for potatoes as could be desired. I am told that after hiring all the work will this season pay for the $\$ 500$ irrigation plant to which these products are due. A net profit of $\$ 50$ per acre is good enough for any country. At the place of Hon. A. B. Montgomery there was seen an object-les son of great value. The recent ruins have brought all of the alfalfa up in godd shape, days before the rains began is twice as large as the unirrigated. As far as the eye can reach over your beautiful plain I saw
of it, and the
days to come.
The people of this region are the same who went through the dry time of 1890 and the succeeding good seasons of 1891 and 1892. And it is to be presumed that the probable abundant rainfall and crops of this year will not this time be allowed to diminirrigation that the dryness of 1893 and 1894 have started. It is the duty of those who portion of the profits of a prosperous year a year of abundant rainfall, to increasing the facilities for irrigation and increasing the area to be irrigated. I congratulate
or Kansas not so well off as this, for there water sheet is only four to ten feet thick. There are parts even
Not to enter here on the great question of the original source of the underground water, which would take time and should be illustrated with maps and diagrams, will just say that the great sheet is largely re-enforced by rainfall. It is the farmer's duty, by subsoiling and by plowing furrows o save as much as possible of every rain fall, and the good God has in this region not only made the underground storage reservoir, but has shown how the waters of
the great rain storms are carried down to it. Most of the smooth surface of the
country is covered with whitish-yellow soll, known as the plains marl, which does not absorb much water but turns down the for a hundred feet or more are made of similar materials to those which hold the sheet water. In fact, they are water-holding strata. There is, however, never enough of water to flll them through all posed on the surface they readily absorb the rain that falls on them. The slope of these strata, or the dip, as we geologists call it, is about the same as the slope of the surface, south trenches which are the beginings of the stream beds, known as the Sappa and Beavers, whose branches are numerous, cross the slope in a somewhat transverse
direction, that is, to the north of east And on the slopes of these arroyos, on both sides, the plains marl has been mostly oroded away and the coarser beds of the tertiary grit are exposed to the action of
wind and frost, rain and sun. These slopes of the arroyos, therefore are long strips which readily absorb the rain falling on them and pass the water downwards, so that it falls into the general dip of the
strata and replenishes the underflow. These transverse arroyos, occurring in succession far into Colorado, guarantee an increase to the underflow of Sherm With these advantages for absorbing the water of the plentiful years and the underpround reservoir of indefnite extent; with the improvements constantly being made in the mechanical appliances for raising and listributing water; with a people gritty as 1. he water-bearing rocks and wise from past experiences, I look for this region to go on developing in material prosperity and increasing its enjoyme abundance of water to irrigate five, ten or fifteen acres on all the four thousand quarter sections of the county, and the smallest of these areas, combined with a judicious use of the pasture land and other parts of the 160 acres, will insure to the working owner thereof more than a
bare living in the dryest years and sure bare living in the dryest years and sure
advance in wealth through his active life andance in wealn home comforts and home luxuries for through the years. I see in the first decades of the tweentieth century a county population exceeding 55.000 and a oount
seat of from 3,000 to 5,000 people, and 4,000 or 5,000 rural homes with carpets and musical instruments and the pleasantnesses
of clvilization, children well schooled and happy wives shaping the destinies of the coming age.
As with Sherman county, so with all
western Kansas. So with Colorado, so with Nebraska. So with most of the plains, which will be the focus of power
and wealth, as they are now the central and wealth, as they are now.
part of our common country.


FROST, Presicent of irditon board. If a single thought on the subject of irri-
gation to which I may give expression shall in any way prove of benefit to the people of Goodland and vicinity, then I shall feel amply repaid for my visit to Sherman
county, notwithstanding the difflculties encounty, notwithstanding the The evidences
countered in getting here. The of irrigation as witnessed by us to-day, is,
indeed, most gratifying, indicating, as it indeed, most gratifying, indicatig, as
does, that the enterprising peoplo of this section of the State are fully aroused to action and are at least willing to give this new method or system of conquering the nestern soil a fair and square trial. You have made a noble beginning and it
is to be hoped that you will continue in the is to be hoped that you will continue in the
noble work until every quarter-section of noble work until every quarter-section of
land on this broad plain has been made land on this broad prain has pentiful and productive. The rainfall or
bountifur
water supply is no small factor in so makwater supply is no small factor in so making it, whether it be from the clouds direct us, raised to the surface by pumps and artificially applied to the growing crops. The latter system is the one the people are about to enter upon. Our rainfalil for the
western portion of the State is about eighteen inches annually. For Sherman county, ipresume it is als so, you need but a few inches a year. if so, you need bwat you
inches of water in addition to what have to mature a crop each and every year.
This you can get by and through these pumping plants. Twenty-four inches of water annually is ample to insure your
crops, provided it is given you during the crops, provided it is given you during the
cropping season, and since you already, get eighteen to twenty inches annualy, leas
residue can be readily supplied for at leas residue can be readry supp a yearly crop
thirty or forty acres, and a
made certain to that extent, at least. The work of the State Commission is to aid th people in this development of water supply, more especially so on the higher lands,
where these tests are being made, all of where these tests are being made, all
which thus far are proving themselves which thus far are proving themserves shal be a grand success, and when our work shail
have been complete-for the season, at
least-we hope to make a report that will sustain the assertion.

Irrigation Commission for the State of Kansas is fully warranted when we call the
people's attention to the vast interest the State possesses in this section- 800,000 acres of unoccupied school lands, a portion of Thich at one time were possessed mey their
vidual owners, who, unable to meet their annual payments as they fell due, were obliged to let the lands go back to the
State and thereby lose what they had paid into the State's treasury, which would run way up to $\$ 100,000$ or more ndividual owners have had no benefit, While the State or the people at large have. lands they must frrst have the assurauce that they can not only maintain themselves on them, but make enough out of them besides to pay for the land.
But, my dear friends, I do not believe that all the virtue lies in irrigation alone,
but that three-fourths of the great battle lies in cultivation, either with or withut irrigation. I am a believer in deep the extent of subsoiling the ground to a depth of eighteen or twenty inches, thereby forming a reservoir underneath the surface for the storage of a water supply to be
drawn from through the drier periods of the year. Such plowing and cultivation absorbs and collects the water that the good Lord allows to descend upon our lands, wise runs off into ravines and rivers, then to the Gulf of Mexico, nevermore to return. I strongly advocate and urge you people of Sherman county to adopt this system. If you do this and erect a smail pumping sta-
tion you can remain where you are; if not tion you can remain where you are; if not,
it is a very grave question whether you can it is a very gra
do so or not.
ADDRESS OF RRASMUS HAWORTM, PROPRS
OF
GEOLOAX
A brief outline of the work we are doing in connection wher the investigation of the well settled that the general sheet water or underflow, of the State is situated be neath the loose tertiary deposits, so tha mapping the underflow area is substantially the same as mapping the areal extent of made have shown an incestigations already made have shown an increase in the esti-
mates of the underflow area in certain portions of the State, and quite probably the fications of the tertiary boundaries as here Ofore understood.
Tue workers in number-two in the investigation are six tate, Messrs. Adams and Patton; two in he northwest, Messrs. Crane and Griffiths and two in the east-central, Presiden Logan. It MaPhersona by the close of the season sufficient field work will have been accomplished to make it possible to pre pare an accurate map of the State, showin all tho areas under which hore is a suu cient amou.

## rigation

In addition to this a careful study is being made of the conditions bearing upon the that there are many reasons for hoping that over a considerable portion of the western half of the State artesian waters can be reached at a depth of from 250 to 500 ieet, which within a shot distance of the surface, from which depth it can easily be pumped.

JUdGE sUtTon's address.
After the geologists and Judge Frost had their innings, Juage W. B. Sutton, Secreaudience in his characteristic way. His humor and occasional irony are impossible to reproduce.
He called attention briefly to the means or irrigation at hand, the suitableness of the climate and soil of Sherman county, the
topography of the land and the abundance of the water supply and the sole difflculty in the way, namely, the cost of listing the water to the surface; the unsatisfactory
result of attempting to build up a prosper ous agricultural community depending en tirely upon the rainfall; to the necessity o exercising the brain as well as the muscle problem on the plains, and urged the use of a portion of the proceeds of a bounteous ear like this to fortify against the He gave them briefly an outline of th work laid out for the board by the la creating it, what it was expected to do an what it had done already and what it hope till to accemplish, and closed by returning of Sherman county for their generous hospitality and cordial reception.

If you would have an abundance of dark losss hair, if you would have a clean humors, or if your hair is faded and gray, and you would have its natural color re
tored, use Ayer's Hair Vigor. It is unstored, use Ayer's Hair Vigor.
questionably the best dressing.

F Get up a olub for the Farmer.

# IRRIGATION SUPPLIES. 

N1 Windmills, Steam Pumps, GASOLINE ENGINES, ETC.


FAIRBANKS, MORSE \& CO., unionNve. Kansas City, Mo.

State Experimental Pumping Plant at Goodland.
Our readers will be much interested an the following detailed description of the law creating the State Irrigation Board.
This station is located in Sherman county, two miles due east of the city of Goodland, and on Saturday, June 15, he workings of
ughly tested.
The well is of tubular type, bored to depth of 166 feet through the plains marl, into the second water-bearing with six-inch standard wrought-iron pipe. The cylinder is of the Cook patpipe. The cylinder is of the and one-half inches inside iameter and sixty inches long andiameter and sixty inches long, anhored at a depth of 158 feet from the machinery, consisting of a ten actual horse-power Fairhanke Moun- pump-rods, etc., were designed and manufactured especially for this particular work, by Fairbanks, Morse \& Co., of Kansas City, Mo., under the personal supervison of Mr. Ira C. Hubbell, manager. The photographs reproduced on preeding page show the compactness of the whole arrangement of the machinry, and no one will probably be surprised in being told that when all was ready for the test that everything moved off "just like old people." After steady, continuous pumping for several hours, at the rate of 6,000 gallons per hour, there was not the slightest indication of any decrease in the water supply, furnishing indisputable evidence that at least Sherman cos water "to sell," and it will there fore not be long before this county is ranked among the first in its general productions.
Great credit is due all members o the Irrigation Board for their deep M. B. Tomblin was untiring in his watchfulness of the work of the contractors on the Goodland station.
Fairbanks, Morse \& Co. did the entire work, including the building of well.
This plant will raise 6,000 gallons of water per hour and can be operated wenty-four hours per day, if desired, the cost of one gallon of gasoline per hour, and when gasoline is purchased In bulk, as it can be, the expense for gasoline in remote sections whillon,
materially exceed 15 cents per gallon, and of course less nearer to the Missouri river, where freights are less. Any further particulars that any of our readers may wish wil Moree \& Co. Kansas City, Mo
The accompanying photographs tell the story very plainly.
This station was formally opened by the State Irrigation Board on Tuesday, July $9,1895$.

Publishers' Paragraphs, No Common Orrbr.-One of the best ofeers we ever heard of is that made by the
Hapgood Plow Co., of Alton, Ill., which apHapgood Plow co., of Alton, of., which apTheir advertised prices are like these: Disc arrow, 816 ; sulky, \$2s; fourteen-lnch big money selling these goods. Write for their complete price list.
Any one having skins of Galloway cattle, and desiring a fine wagon robe, would do C. Byrd, pecialty of tanning such hides for fancy robes. All other work in his line would
also receive careful attention His ness and reputation at Lawrence has been ully established for many years-a reliable business and a reliable business man.
The McPherson college is under the mannd solid in the Dunkards and is thorough re well managed and its students campare in proficiency with those of any college in
 the Superintendent, is the finest penman in His students catch an inspiration from him His sud remarable. May have graduated but none have made failures as clerks and book-keepers.
The motherly kindness of the Sisters of Charity is shown in southwestern Kansas, where All Hallows Academy, conducted by them at Wichita, has been for the pas eight years a growing success. Young la dies with the best of credentials only are admitted, and there, under the personal attention of the good Sisters of Charity, B.
V. M., they may live the year. round, havV. M., they may live the year. round, hav
ing all the comforts of a home and advantages of a school. All denominations are epresented, and, strange as it may seem the Protestants have ever been in the ma jority. Eighty-fivedollars per session,with 335 more for the summer months, is the entire necessary cost of the year. Many orents sona the fye years old, and if two or more go together the expense is ven less. A happy select home school. All Hallows deserves its success.

## Free to Our Readers.

All of our subscribers who have roofs of Son, East Walpole, Mass., for samples of their Neponset Red Rope Roofing Fabric. They come free and show a fabric that will keep out water, frost, wind and vermin, and costs very much less than shingles. we advise our readers to send for samples ven if they do not want to buy immedi-

## TOPEKA FOUNDRY

IRRIGATION MACHINERY TOPHIKA, KAS.
DRAIN TILE
W. S. DICKEY CLAY MFG. CO.

IRRIGATION.

## POWER from GASOLINE? YES.



## The £ome Circle.

The mattor for the HoMr crionis it sealootba
 and very good. Colves acoordingly.

## WALLS OF CORN.

[This beautiful poem, written by the lamented Mrs. Ellen P. Allerton, of Brown oounty, Kanpropriateness to the present situation in this State. The poem was written a fow years ago and may be welcomed as an old friend by som

Smiling and beantifal, heaven's dome
Bends softly over our prairie home, But the wide, wide lands that stretched away,
Before my ejes in the days if May, The rolling prairles' billowy swell, Stately manslon and hat forlorn,
All are hidden by walls of corn.
All wide the world is narrowed down
To walls of corn, now sere and brown.
What do they hold-these walls of oorn,
He who guestions may soon be told,
$\mathbf{A}$ great State's wealth these walls enfold. No sentinels guard these walls of corn,
Never is sounded the warders' horn. Yet the pillars are hang with gleaming gold,
Left all anbarred, though thlevee are bold. Clothes and food for the toiling, poor,
Wealth to heap at the rich man's door

Meat for the healthy, and balm for him
Who moans and toeses in ohamber dim
Shoes for the barefooted, pearls to twine
In the scented tresses of ladies fine:
Things of use for the lowly cot,
Where (bless the corn) want co
Luxuries rare for the mansion grand,
Gifts of a rich and fertile land;
All these things, and so many more,
Are hid and held in theee walls of corn,
Whose banners toss on the breeze of mor
Where do they stand, theee walls of corn,
Whose banners toss on the breeze of morn
Open the atlas, conned by rule,
Point to the rlch and boonteous land,
That ylelds such frait to the toiler's hand. Treeless desert," they called it then,
Haanted by beasts and forsook by men Little they knew what wealth untold, Who would have dared, with brush or pen

## and how would the wise ones have laughed in

 Had prophet foretold theee walls of corn,Whoee banners toes in the breeze of morn?

## SEA DRAGON PILLOW

 The Covering Heproduces Effect of sheen of Water In Sunligh For piazza use, at a seaside cottage, where sunshine and sea breeze abound, nothing can exceed the appropriate loveliness of "the sea dragon pillow." inches by 18 inches square ing is of sea-green satin, that pro-

BRIDAL AND I.AUREL PILLOWB.
duces in effect the very sheen of the water in sunlight.
The design upon the face of the cushion is a sea dragon drawn in exquisite curves and sweeps, and wrought couched down with white and yellow silk thread. The embroidery sparkles and glints from the green background. A $\delta$-inch double ruffle of the satin, overset with a 4-inch fall of fishnet spangled in silver and gold, completes recommend itself in cheaper stuffs, green crepon or denim, at 15 cents a yard. The dragon or a fish net and little fishes afloat in water hues, may be readily drawn upon the material and worked in in Japanese gold and silver cord and couched into place.

The laurel wreath design is made of
dark, rich green satin, knotted together at the base by means of a brown velvet appliqued upon a background o changeable velvet, which serves as the race of the pillow.
The pile of the velvet is the dainty gray tint of freshly burned ashes while beneath it pleams a cherry red color, suggestive of fire flame.
The entire design is edged with tiny pold cord, couched into place with yel low silk thread, a heavy gold cor wiste the cushion, with distingue backed with somber brown satin.
This design would be very lovely made up in linen duck, with the wreath embroidered in green, or it might stil be appliqued in satin, as the satin is so Hne gloss or the actual laurel leal n applique work the design should al out carefully and thoroughly basted unon the backround about the edges, then hemmed down firmly with self colored sewing silk, and lastly overse with the cord, couched at regular in tervals, smoothly and evenly for hand some effect.
A blue denim pillow with this design wrought in white embroidery cotton

and finished with a heavy white cord, makes a durable and attractive pillow

The siesta pillow, to be used in the hammock and indoors, for the invigorating "forty winks" that restores the pink to the oheele and comfort to the material that will readily launder.
The cover should be left open at one side and furnished with tiny buttonholes and little flat lace buttons, that fluffy voluminous a blind hem, under fuffy voluminous ruffes that will holly conceal the opening Gay bandanna, with yellow, pink and bright plaid will make serviceble bright plaid, win White dimity and inexpensive covers. White dimity and fowered chit to the washtubs than first.
The fourth, suitable for a wedding gift, is of heavy white satin, the linked hearts worked in silver. Lace and satin frills encircle this charming pillow for a bride, and at one corner is caught with a knot of white ribbons and cluster of orange blossoms.-N. Y. World.

Negleoted Women Deserve Neglect. It is her own fault if a. woman is unloved and neglected. This is a harsh tal man is a weakling who can no more resist kindness than a rose can resist the sun. It is weak, helpless woman' duty to make herself attractive and pretty in the very teeth of defeat, and to make herself agreeable to every on in the very face of discouragement Call it hypocrisy, tact, finesse, or by any other term, but she must turn in the edges, and make allies instead o antagonists of the people about her Spotless neatness, becoming feminine attire, truth, kindness, cheerfulness, love, and the loyalty that restrains he rrom speaking ill of her neighbors wil make any woman lovely, even thoug she lacks beauty.

## Poached Eggs with Cream Sanco

One pint of water, one teaspoonful of vinegar, one saltspoonful of salt, as many eggs as are required. Put the water, vinegar and salt into a very slip the eggs pan, and into it, withou breaking the yolks. When set, remove from the water with a skimmer and drain thoroughly before placing on a warm dish. Pour the water out of the pan and put in a teaspoonful of flour and a tablespoonful of butter smoothly together, and add the cream; add a lit tle minced parsley, salt and a dash of eayenne. Boil three minutes, pou over the eggs, and serve at once.

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

## Royal Baking ABSOLUTELY PURE

## BICYCLING COSTUMES

An Entortaining and Important Bubjnot nstruotively Disoussed.
The interesting discussion which is roing on in the newspapers as to the most convenient and becoming style of bicycle costume for adult female riders, during the progress of the fad, illustrates a peculiar weakness of the sex, or to put it more correctly, a pardonable vanity. Time was when there would have been no discussion of this kind. In the old days a girl or woman been known in those days, whether in a full or abbreviated skirt, would have met with dire punishment at the hands of the elders, while a short skirt would bave provoked as stern an outburst of anger as did the display of limbs before that redoubtable old Knickerbocker governor of New Amsterdam. But the world has progressed since those days and the display of those members with which, according to the poet, the devil baiteth his hook, no longer occasions surprise, unless it happens that they are unshapely.
Hence the discussion of this problem has, according to the Chicago Tribune, taken exactly the shape which might have been anticipated. It will be observed that all the girls, married women and widows who have symmetrical lower limbs are inclined to favor the short skirt which will not obscure that symmetry. On the other hand, all those who have spindling or the Chippendale style of continuations are firmly set upon having the long skirts. Be-
tween these two classes there is still another which is neutral as to sym metry. It is conscious that it has no occasion for vanity and at the same time it knows it is not a subject for ridicule. This class is in profound doubt about the skirt and how far it should come down. Again it is noticeable that the girls are more particular about these aspects of the case than the married or older women. The former are actuated by the aforementioned vanity, which is entirely pardonable, which is condoned by every poet from Shakespeare to Swinburne, and which is hinted at even by saintly
George Herbert, while the latter are
which vie with the highest efforts of nature, why should she not purchase also the requisites of symmetry for the motive power of the treadles and thus enjoy all the pleasure of the most favored class? It may be averred that she is a flying figure of deceit, imposing upon the public as she speedsalong the park or the boulevard, but that is a matter between herself and her con science, and if the spectator is none the wiser, as most certainly he will not be, the conscience will find it dimicult to rise superior to innocent vanity. Therefore there is no reason why the entire world of female cyclers, young and old, shapely and unshapely, lean and fat, handsome and ugly, should not adopt the and have as good a time as the male pa-
trons of the "bike," who are grossly indifferent as to their looks. The com different as to their looks. The com ing woman in her competition with man wives, but it may be assumed she will never abandon her pride in her natural or artificial charms, as the case may be. She will never be content to make as ridiculous an appearance a most men do on the bicycle, and she never should, for it is every woman' duty to be as beautiful as nature o money will allow, whether on or of he flying wheel. In a word, let wom en dress as they please for this health giving exercise.
Enclose a stamp to any agent of the ickel Plate Road for an elaborately il Outings." Address J. Y. Calahan, Geners Agent, 111 Adams street, Chicago, Ill.

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What you want is the through car ser vice offered between Denver and Chicago via the Union Pacific and Chicago \& Alto ine. Magnificent Pullman sleepers, dining cars and chair cars, run through daily with out change, Denver to Chicago via Kansa | out ch |
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## ORGANS ano PIANOS

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## n ideal bicyole costume

more disposed to regard comfort and reedom of action of the limbs.
There is no good reason indeed why the female riders should not wear the abbreviated skirt, all classes of them The Chippendale class can easily footing with their more favored sisters by the skillful use of padding. Symmetry of all sorts can now be procured at the shops. If it be allowable for a less favored sister to conceal the ravages of time by the appliances of ar and to compensate for the cruel indif ference of nature by the skill of the chemists and cunning artificers, if she can go to the studios where female beanty is compounded for sale and pur chase hair, eyebrows, complexion,
cheaks, neak bugt arms and fingers
musrana Aomexs son
FARRAND \& VOTEY ORGANS,
The best organ manufactured, at a reasonable
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 great effervescent this great effervescenttemperance beverage is a sparkling, bubbling fountain of health-a source of pleasure, the means of making you feel better and do better. You make it yourself right
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6 gallons cost hut 25 cents.
the ciras. e. hires co., Phlladelphis.

Che Houng Joffs.


NEW ATHLETIC GAME. It Is Callod Battlo Ball and Can Bo One of the newest of games, and one that is apparently destined to be very popular, is battle ball. Among its advantages is that it can be played in any able for indoors or out of doors.
At the same time it is more athletic than the great majority of indoor games, combining, as it does, various features of baseball, football, bowling, handball, tennis and cricket.
The game is especially adapted for gymnasium use, it having been in-

battle ball court.
vented by Dr. Sargent, of Harvard university, with that end in view. His chief desire was to invent a game
which would be lively, and at the same time not in the slightest degree dangerous. He also wanted a game that could be played without long training or previous practice. The result of his experiments is battle ball.
The court upon which the game is played is somewhat similar to that used in tennis, as will be seen by the accompanying diagram. Thelength of the court is twice its width, the court be-
ing divided by a line in the middle, making two squares of twenty feet, while the court is fifty feet long by twenty-five feet wide. This sized court is the mogt desirable whon thero in
five players on a slde, which is the usual number, although the game may be play
three.
Lines should be marked on the ground or the floor as shown in the diagram. These lines are known as the center foul, foul end and goal lines. The goal lines are those which are marked by circles at each end. On them should be placed three pairs of Indian clubs of three pounds weight each, one pair in the center and the others three feet from the posts, the clubs of each pair being eighteen inches apart. Seven feet above the goal lines cords are stretched across from posts.
If there are five on a side, the three
stationed in front of the stationed in front of the clubs act as guards or goal-tenders, while the other two are forwards or goal-tenders. Should there be more than five players the additional cont orwards.
The ball used in the game is a large rubber one, filled with air and covered with leather. It should be nine inches in diameter, and weigh about a pound. The side which has the call-tries to decided by a toss of the coin-tries to side. If it succeeds in doing so ten points are scored in its favor; if the atpoints are scored in its favor; in club is tempt to make a goal fails and a club is
hit, five points are scored. If the ball merely passes the goal line under the cord, three points are made.
Penalties are also exacted for fouls. If the ball goes over the goal cords it counts one against the side that threw the ball, and if a thrower steps over the center-foul line, it counts two against his side.
The game consists of two ten-minute halves, with a rest of five minutes between the halves.
When the game is played out of doors, wands or sticks like cricket-wickets may be stuck into the ground. These should project three feet.
It is claimed for the field of battle-ball that it develops the muscles of the back, as well as those of the chest, and those of the left arm as well as those of right. An argument in its favor is that girls as well as boys may play it, there being not the slightest en Days.

Appeal.
"Papa," said Jennie, climbing upon her father's knee, "don't you think that 'stead o' ten cents a week you could give me fifteen?"
"Well, I don't know, my dear," was the answer. "What do you want of the extra five cents?"
"I thought my dollie was old enough to have a lowance, and I want to
it to her."-Harper's Round Table.

Whened she'd Been Born Soouer.
Little Mary K-was obliged to stay at home from school on account of her by telling her stories about her own childhood, and succeeded so well that the little girl said: "Oh, mamma, $\frac{I}{}$ might have played with you when you were little."

Tommy's Progress.
Mamma-You may open your school report, Tommy, and tell me how you have been doing this week.
Tommy-Oh, here is the highest mark, Mamma
my?
my? Round Table.

Dog Kept rab on tho
One of the best stories about the intelligence of dogs which has been told for some time was reported a few days ago by an offlcer of the Pennsylvania Railroad company. He said that one of the men in the passenger department had a dog that could tell the time of day. The owner of the dog had a fine clock in his office, and he got into the habit of making the dog tap with his paw at each stroke of the clock. After awhile the dog did so without being told, and as the clock gave a little cluck just before striking, the dog would get into position, prick up his ears and tap out the time. If the clock had struck one and a the whe after ary cluck of the clock the dog would ary cluck of the clock the dog woul for any hour. He knew just how the hours ran and how many taps to give for each one.-N. Y. Tribune.

QUEER HOUSEHOLD PET.

## Ho Is an Alligator Who Lives in a Now

 Tork Fint.A gentleman just returned from outh America has brought with him ohis It seems funny, doesn't it, that bjg scaly creature like the fellow here pictured should find room in a New York flat? But such is the fact.
Of course, Mr. Alligator doesn't share the rooms of Mr. Alexander-that is the gentleman who brought the big reptile from the south-but the creature


## QUEER HOUBEHOLD PET.

is fed by the children of the household, and the ugly monster takes great pleas ure in sleeping in his tank at the top of the house, for it must be known that the alligator is safely lodged in an iron tank whose top is heavily caged over with steel wires.
Just how long Mr. Alexander will be able to keep his monster pet the people in his neighborhood are trying to guess. If Mr. Alligator should break loose some fine night there would be plenty of excitement in that New York flat, you can be sure of that.
But up to the present moment both the alligator and Mr. Alexander's family of boys and girls are doing nicely and all goes well. One thing is certain: when the clumsy pet of this home dies or is killed, unere win to be made up piece of aligator skin to be mado up ne interested in the big animel on the

## roof.

Nog rransiors ins castom.
A Philadelphia dog used to be sent by his master every morning with a penny in his mouth to purchase a bun for breakfast. He had continued to do this for some time, when the baker, having changed his helper, the dog was un heeded. The dog thereupon ran to the barked loudly at the assistant. The barked loualy atters but the assistbaker explained math, it in bad part, ant, a surly the jog appeared he seand next time the bog appe gave it to him. The animal, as usual, seized the him. but finding it too hot to hold, he dropped it. He tried it again; sgain it burned him. At length, as if guessing the trick, he caught up the penny and ran off to another baker's shop in the neighborhood. No amount of coaxing could ever get him to return.

He Had Dined Before Dinner. It is said that the table manners of Napoleon Bonaparte were very bad he was invariably through with his dinner before those who dined with him had got half through. In fact, those who had the honor of dining with the emperor were wont to remain after his majesty's departure.
Upon one occasion Fugene de Beauharnais, the stepson of Napoleon, rose


WM. TAYLOR,
Agent for Colombla and Hartford Bleycles TOPEKA, - KANSAS.
from the table immediately after the emperor.
"But-you haven't had time to finish your dinner," said Napoleon.
"Pardon me, sire," said the prince. "I dined before I came."-Harper's Young People.

## Good Friends.

The story is told in an English magazine of a rat which has become blind,
but two of his family are his guides. He goes about with a niece of ratinl. in with an end of the stick in its mouth, steer the blind rat about the region where he lives. People have become so interested in them that they are never disturbed.

The Thing to Have Done
"My doll is very sick," said Polly, mournfully.
"Yes," said Jennie; "she looks very waxy. You ought to have her waxi-nated."-Harber's Young People.
"The Farmer's Ready Reference, or Hand-Book of Diseases of Horses and Cat tle." Descriptive circufar free. Address S C. Orr, V. S., Manhattan, Kas.

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If you want Kansas Farmer and Or, Kansas Farmer and Topeka Ad vocate, send $\$ 1.50$.
One dollar and sixty-five cents will pay for the KANSAS FARMER and the wice-a-week New York World. Every body should read.
The summer meeting of the Nebraska State Horticultural Society will be held at Wymore, on July 23, 24 and 25. An inte
We want our readers to secure for us thousands of new subscribers for the for such work. If you will get up a list, write this office for liberal terms. In his circular of last Saturday, Henry Clews says: "As for doubts about the syndicate and the Treasury outlook, they are without foundation. No alarm need be caused if the Treas-
ury is compelled to borrow a few more ury is com
The committee on Industrial Co-operation has called a meeting of the Shawnee County Alliance, to be held on July 20, at K. P. hall, corner Sixth o'clock a. m. and at 2 o'clock p. m., and requests all co-operators to be present.

It becomes necessary to occasionally state that every communication to a paper should be signed by the writer thereof as a guaranty of, good faith. name papers insist on publishing the writer with his letter. The Kansas Farmer does not go so far as this, but the editor requests that to him the courtesy of letting him know who they are.

The recent course of the wheat market has been a surprise even to those who wanted prices to go lower. The during the flurry to the lowest price of the week was about 20 cents per bushel. "Bear" speculators have fine prospects for spring, wheat and by the fact that the unknown stores of wheat in Russia have contributed largely to the markets of the world. prices, a play to enable the "talent" to secure more "lambs" to fleece. Just at present, predictions as to the immedibe only conjecture.

Keeping Sweet Potatoes--Web-Worms. Editor Kansas Farmer:-I would like to hear from some of your subscribers as to th
sweet potatoes.

The alfalfa sown this spring has been destroyed hy the web-worm. Do they kill the roots, and is there any preven Woodward, Okla.

PEOULIARITIES OF IRRIGATION ON THE PLATNS.
The Kansas Irrigation Board undoubtedly thinks that the irrigation in which the people of this State are most interested consists in obtal to the land for the benefit of crops. Indeed, the law which authorizes the existence of this board makes no provision for the development of any new social system, any change of our right
acquire and hold land. It merely
directs the board to find out where and in what quantity water can be found and how and at what expense it may be obtained and applied. A peculiart is
of this board, as now constituted, is that it is confining its efforts, in offlcial capacity, strictly to the performance of its duties as laid down in the law.
Kansas farmers are essentially prac tical in their ideas of farming and they are unable to see why the benefits to be derived from irrigation should be societary reforms which they hav scarcely considered, and as to the expediency of which years of discussion the leading ideas of these reformerswhose utterances sometimes convey the impression that they desire the and, postponed until after the adoption of the social reforms which they think will fit well therewith-are concisely expressed in a prospectus of a It is proposed to make a colony that will Ilustrate the highest possibilities of homemaking on irrigated land, and stand as a practical demonstratlon of the industrial
and social 11 whe
Which may be developed by the environment of arid Amercac ser to
very name it will bear is ane sacred to
iberty in the annals of Anglo liberty in the annals of Anglo-Saxon men.
This Plymouth colony like the Plymouth of the past, will stand for the highest ideal community will bear the same relation to industrial independence as did the old to
the development of religious independence.
of the induastmanititan an essential feature cres projectors or Plymouth is twenty acres, and not more than forty acres will
The somall
farm unit farm unit demands the faithful application
of the principle of intensive cultivation, of the principle of intensive cultivation,
and yields in return surprising results,
both in the matter of the quality and the and yied in methe matter of
buantity of the crop.
The farm village has been successfully used in some portions of Europe for cen-
turies. It was also adopted to some extent turies. It was also adopted to some extent
in western Massachusetts by the early
settlers. Brisham settlers. Brigham Young realized its ad
vantages, and made it the foundation of his social system in planning the colonies of surrounding an extensive park, at the most eligible point in the Plymouth colony tract,
and the village will bear thename of "Home Acres." The name exactly expresses the
idea. While each colonist will have his twenty acres of rrigated land in the surrounding parms, he will also own one acre for home
purposes in the village. And here he will a broad stroet lined with trees, and his family enjoying the advantage of being
close to the school, church, postoffice, store and all other town institutions.
This prospectus describes at considerable length plans for co-operation in business and for the government of the colony.
It is not for the purpose of criticising the plan or the methods of the promoters of this colony that we have called attention to some of its proposed features, but to show what is uppermost in the minds of some of the men who the importance of irrigation.
But the great plains country east of the Rocky mountains presents areas ural facilities for irrigation to an extent greater than is found in all the region from the eastern base of the Rocky mountains to the Pacific. The conditions in this mighty plains region are not such as to call for the services of great water companies, nor do they suggest advantages of co-operation more marked than pertain to ord ditch company finds little use for itself. The wealth of water is by nature reser voired under a very large proportion of these plains, and, so far as experl-
ence has gone, is most economically ebtained and applied by the plant of the individual farmer, thus tending to promote rather than counteract the general tendency of American farmer
to individualism rather than any form socialism or even co-operation.
The Kansas Irrigation Board and the law creating it have wisely recog their efforts to the humble work of de ermining possibilities and methods in armony with the situation, rather han wasting their time and the State's appropriation in attempts to introduce 8 an exotic the systems necessary and seful in the mountain States or in shering in a modified social system.
For this they may be criticised by ocial reformers who have thought they sw in the intensive farming which oes with irrigation the occasion or the introduction of their cherished plans, and for whatever of persona ggrandizement their adoption might bring. It is distasteful also to the promoters of grest canal schemes, with ond and coupon attachments, and fine "rake-offs" for the promoters. But the course of the board is the common ense course which must commend itsel the common-sense farmers whose wis dom and toil must be much in evidence in the development of the plains of Kansas and other States which share the wealth of soil and ever-replenished stores of water of the great plains of North America.

## A LUOKY ERROR.

It turns out that, all unintentionally the present law as to traveling ex penses of various "boards," which have n charge the management of several of the State institutions, can draw rom the State Treasury for these traveling expenses no more money than they have actually paid out for such expenses. This includes railroad had no freepass, Pullman car fare and meals. The State Board of Charities still draws 15 cents per mile for each mile traveled, even if the members have free passes, and it is a matter of dissatisfaction with some of the other boards that they are not likewise favored, and
it is explained that it was the intontion and was generally supposed that these other boards were to draw 8 cents per mile, but that by a cruel mistake, for which a certain State Senator was, inadvertently, responsible, these public servants were cut down to merely actual expenditures.
It is perhaps not well for the State to be parsimonious with its officers. Certainly compensation ought to be sufficient to secure competent service. But those who exercise the power to tax should remember that the people they serve have to earn all the money
drawn from them, and there should be drawn from them, and there

But the law which authorizes such a premium on traveling is detrimental to the public service. In Kansas the actual railroad fare is never more than 3 cents per mile, and hotel expenses, including sleeping car fares, can scarcely exceed $\$ 5$, and will gener-
ally be less than $\$ 3$, per day. If in attending to the State's business, an officer make a trip of 200 miles and spend two days, his account, under the something like this:
Per diem, two days.
Mileage, 200 miles...
80.00
80

He would be considered as not "onto his job," however, if he did not man age to charge at least a day for going, a day at the institution, and a day for returning, and if he did not manage to travel over 200 miles. It is generally
impossible (?) for members of these impossible (?) for members of these institutions over which they preside without going around by way of Topeka and they not infrequently find it out of the question to miss Kansas City. The account as rendered and of actual ser vice and expenses would be:

Per diem, three days
Mileage, 400 miles.
Per diem, two days
Mileage (free pass) Mileage fre
Meals, etc.,

## Profit (spoils of office)

With spoils of only $\$ 30$ per
in the frst meeting
ound frequent meetings necessary? Is it any wonder that each new execuive finds that he could fill every one the boards one hundred times and till not satisfy the "demands" of the ordes hungry for office?
But the actual unnecessary cost in money is not the only disadvantage uffered by the State. To have an ex use for another meeting and the per onal profits thereof, business which ought to be completed is liable to be eft unfinished.
The "mistake" by which these ex pensive junketing tours of our servants have been somewhat curtailed is a lucky one and it is to be hoped that coming Legislatures will extend the ucky "error" to the cases of all who ravel at the State's expense.

THE GOVERNMENT REPORT
The report of the Statistician of the Department of Agriculture, showing the average condition of growing crops first day of July, was issued July 10, as follows:
Conditi
Condition of winter wheat, 65.8; pring wheat, 102.2; corn, 99.3; oats, all rye, 80.7 ; barley, 91.9 ; rice, 84.4 ; potatoes, 91.52 .
The report on acreage of corn, which is preliminary, shows 107.8, as compared with the area planted in 1894, which was a little over $76,000,000$ acres, being an increase of $6,000,000$ acres, and aggregating in round numbers $82,000,000$ scres. The sversges for the principal corn States are: Ohio 104, Michigan 104, Indiana 104, Illinois 105, Wisconsin 105, Minnesota 112, Iowa 106, Missouri 107, Kansas 117, 112, Iowa 106, Mis8ouri 107, Kansas 117, 107, Kentucky 102.
The percentages of condition in the principal winter wheat States were reported to be: New York 78, Pennreported to be: New York 78, Penn
eylvania 88 , Kentucky 85, Ohio 60, Mivania 88 , Kentucky 85, Ohio 60 , Indiana 52 , Illinois 50 Michigan 69, Indiana 52 , Illinois 50,
Missouri 68, Kansas 42, Califoraia 82 , Mregon 95, Washington 93 .
The average condition of spring wheat by States cis: Minnesota 112, Wisconsin 98, Iowa 109, Kanses 46
Nebraska 80, South Dakota 112, North Nebraska 80, South Dakota 112, North
Dakota 102, Washington 94, Oregon 90. Dakota 102, Washington 94, Oregon 90 .
The average condition of all wheut The average condition of all wheut or the country is 76.2. The condition of oats is 83.2 , ag
The condition of winter rye is 82.2 of spring rye 77 and all rye 80.7. The of spring rye 77 and all rye 80.7. The
average condition of barley is 91.9 , average condition of barley is 91.9 , points.
The condition of winter wheat was eported by the department to be 71.1 une 1 and 83.2 July 1, 1894. The con dition of spring wheat was 97.8 June
this year and 68.4 July 1 a year ago.

## Probably Roup.

Editor Kansas Farmer:-Will you lease give me a cure for my chickens? One of their eyes will paste shut and cick matter runs out. Then the eye ets all yellow, and in about three weeks they get well, but will not lay while that way. Not one of the old hens has died, but now the little chick have got the same disease and have
got sores all over them. Please give got sores all over them. Plea.
me a cure through the FARMER.
Bucklin, Ford Co., Kas.
-This inquiry was referred to F. G. Tompkins, a successful poultry breeder of North Topeka, who answers as fol ows:
slight lowls likely are afflicted with slight form of roap, or possibly ores in pox. In either case, bathe the ughly and water and dry thor alve agd apply carbolic salic acid, our ounce olive ill and as much cam phor gum as the oil will dissolve. It is best to separate the sick fowls from the healthy ones. The young chicks
should have plenty of sunlight and a should have plenty of sunlight and a chance to dust, and much grease, they ill soon get over it if they have plenty frange. I should use a few drops of carbolic acid in the fowls' drinking water, and see that they have plenty of charcoal."
Ask your neighbor to subscribe for the

## Weekly Weather-Orop Bulletin.

 Weekly Weather-Crop Bulletin of the Kansas Weather Service, for week ending July 15, 1895-T. B. Jennings, Observer Weather Bureau, Director: CONDITIONS.The air has been quite moist and cool all the week, with the temperature below normal. The rainfall was light in the northern counties east of
Decatur and Sheridan, and in some of Decatur and Sheridan, and in some of over the rest of the State, being heavy over the rest of the State, being heavy
in the extreme northwest and southeast corners.

## RESULTS.

EASTERN DIVISION.
The cool, damp weather has been very beneficial to all crops, except in ing grain in shock, and in Nemaha where it is too dry. Corn is magnificent, is generally in silk, except latecent, is generally in silk, except late-
planted. Meadows and pastures fine, planted. Meadows and pastures
fruit and stock water abundant.
Allen county. - Crops doing well; hard work to save oats and flax on ac-
Anderson. -Not needing rain; corn growing finely; oat harvest over; wet for flax-cutting.
Brown -Oat harvest over; wheat
yielding seven to fifteen bushels yielding seven to fifteen bushels per acre; chinch bugs disappearing. Chautauqua.- Too wet for wheat and oats in stack, plenty for corn and grass.
Cherokee. Tuo wet, injuring wheat and oats in stack, preventing conclusion of oat harvest, injuring corn and uncut oats.
Doniphan.-Corn fine, fruit prospects good, wheat in stack, oat harvest over. Douglas.-Crops growing well; poor hay weather. Elk.-Too wet
grass doing well.

The cool, mDDLE DIVISION. he corn growing nicely. Wheat har vest is about over, the yield being light. Oats are making a fair crop. Millet sorghum, pastures, potatoes and gar dens in fine shape. Rain is generall needed in the northern counties.
Barber.-Cool, cloudy week; corn in ine shape.
Barton.-Corn doing well, and plow-
ing for wheat begun; the week was ing for wheat begun; the week was Bund cloudy. doing finely; pastures mot and sorghum toes good.
Clay.-Early corn tasseling and silk ing; threshing has begun; potatoes, gardens and fruit in flourishing condigarde
tion.
Clou

Cloud.-Corn is needing rain.
Cowley.-Corn and millet growing Dicki
Dickinson.- Wheat making from six to eight bushels per acre; oats turning parts of the county.
Ellsworth.-Cool weather is delaying harper.-Corn in the best good shape. pastures good; wheat and oats in shock amaged by wet weather.
Harvey.-Severe wind storm damaged corn and fruit some; oats nearly all cut and will make a good crop; corn ilking.
Kingman.-Wheat damaged on account
Kiowa. - Corn has grown rapidly uring the cool, cloudy week.
Lincoln.-Wheat cut; corn tasseling; potatoes good.
McPherson.-Great growing weather but bad for harvesting.
Marion.-Cloudy most of the week; orn and grass growing nicely.
Mitchell.-Corn, potatoes

actual rainfall for week ending july 13.
$1 / 2 t_{0}$


Franklin.- Best prospect for corn
since 1857; too cloudy and damp for since hang.
Greenwood.-Fruit in fine condition, also alfalfa, millet, potatoes and stoc wate, a
Jackson.-Corn crop immense;
Johnson.-Oats cut, yield good; tame Johnson.-Oats cut, yied good; tame an average.
Leavenworth.-All crops growing satisfactorily. expected; too wet to stack oats; corn is silking, never looked better. Marshall.-Corn and millet fine; oat harvest over; all crops growing fine. Miami.-Corn splendid; fruit of all
kinds in abundance; gardens fine; too kinds in abundance; garaing. wet for threshig a haying. Montgomery. - Cool, cloudy, damp week, very unfavorable for grain in
shock; much corn blown flat and fruit blown off by wind storm of 7 th. Morris.-Oat harvest nearly done; flax harvest begun.
Nemaha.-Small grains all cut; stacking and threshing begun; needing rain; much corn tasseling, the tassels turn-
ing white.
Osage.-Corn and pastures fine; good
Osage.-Corn and pastures fine; good prospects for big hay
stock water abundant.
Pottawatomie. - Corn fine, though the corn louse is doing some damage in the northern townships; oat harvest nearly done; corn in silk.
Riley.-Crops growing rapidly; early
corn out of danger; some osts still corn out of danger; some oat
green, not ripening this week.
Wabaunsee.-Excellent outlo
Wabaunsee.-Excellent outlook for corn and the crop is now almost in-
sured; sured; ${ }^{\text {/oats and wheat being threshed }}$
and ylelding poorly; gardens splendid. Wilson.-All kinds of vegetation has made wonderful growth this cool, made wonderful growth this cool, stack and shock badly injured; potatoes rotting in the ground.
dens indicate an extraordinary yield; millet and prairie hay will be abundant: pastures good; oats fair.
Osborne.-Dry, Osborne.-Dry, hot week has had a nearly all cut, yield poor. Philips.-Everything needing rain; wheat and oat harvèst in progress; yield bettier than expected.
Republic.-Corn needing rain; fruit suffering; pastures getting dry.
Reno.-Everything flourishing.
Rice.-Corn looking fine; weeds in Rooks. Causing some damage.
Rooks.-Corn needs rain; harvest just barley fairly well filled butstraw short Russell. - Rain needed; corn doing Rell; harvest in progress; wheat and rye poor; oats fair.
Saline.-Some corn much damaged by excessive rains and heavy winds;
harvest progressing very slowly; grass doing finely.
Sedgwick.-All crops growing finely; Smers full of water
Smith.-Fine growing week; alfalfa Stafford.-Corn growing finely; wheat Stafford.-Corn growing finely; wheat
harvest over, with very poor yield; oats and barley good.
Sumner. - Cool, cloudy week, very favorable for corn; some corn in roast-ing-ears; Kaffir corn is being planted; plowing for wheat in progress.
Washington. - Corn needs rain;
early-planted earing well; wheat mak-early-planted earing well; wheat mak-
ing from two to seven bushels per acre; ing from two to seven b
oats ten to twenty-five.

WESTERN DIVISION.
The cool, damp weather has brought all crops well forward, greatly improv ing the berry of small grains, interfer ing somewhat with harvest, but giving fine pasturage for stock.
Decatur.-Wheat will be two-thirds of an average crop; corn growing be
yond all precedent.

Finney.-Barley harvest in progress; good crop weather.
Ford.-All crops first-class; pesches and plums will yield good crop, some ow on market.
Gove.-Fine
Gove.-Fine growing weather; all
summer crops doing fine; wheat improving, harvest will be late.
Gray.-Fine for all crops; corn the finest for years; small grains fine, with plump berry, too green to harvest yet. Kearney.-Barley harvest begun; oats and wheat not ready yet;
and cloudy for alfalfa seed crop.

## Morton.-Grass and fodder crop

Nowing but more rain is needed.
Neather; the small grain berry is wet plumpest ever grown here; corn promses a large crop.
Norton.-Good growing week; harvest just beginning; all crops very promising.
Rawlins.-Corn looks fine, early corn will be some wheat and oats.
will be some wheat and oats. Sine week; best hay crop for years; much small fruit; peaches n abundance.
Sheridan.-Corn growing fine; small grain now made; harvest begun.
Stanton.-Fine growing weather.
Thomas.-Will be fair crop of small grain; corn, pot
good; grass fine. and plump; gardens fine; pastures excellent.

Wallace.-Small grains greatly improved; corn growing fine; alfalfa never better; grass fine.

## Entering Upon Prosperity,

The Republican valley of Kansas is now in her highest glory. On last Wednesday morning, I took the Union Pacific train, at Junction City, for Wakefield, Clay Centre, Morganville, Clyde and Concordia, and but seldom have I beheld a scene so marvelously beautiful and inspiring. The golden grain, the boundless corn, with broad, piring, made it a picture of surpassing loveliness. Stopping a d du or from farmers and others the same old story of crop failures of other years and hard times, but the encouraging outlook now for corn and tho roason ably good oats crop now in shock, inspires hope for the future, and believing, as the true Kansan does, that we are now on the threshold of a series of good crop years, the past will soon be forgotten
The Republican valley is destined to become a rich country. It has an im mensely fertile soil and is especially adapted to corn-growing and the forage crops necessary to handing cattle and hogs, but while the natural wealth and resources of the valley are great, there is lacking some years sufficient rainfall to produce good crops. This short coming, however, is to be remedied by irrigation, alfalfa-growing and subsoiling. These three important ideas are beginning to take root in the Republican valley, as well as farther west. will ere long cross the Missouri river While they have not yet gotten so firm a hold nor extended so widely here as in the Solomon valley, yet they are growing and spreading, At every town irrigating, some were growing alfalf and some are talking of subsoiling. A prominent business man of this place (Concordia) said to me this evening "Every acre of land in the Republican valley has water enough below, in the underflow, to irrigate it, and some day sons of insufficient rainfall",
Mr. J. M. Stratton, of Clay Centre, has put in an irrigation plant on his fine farm, one and a half miles from town, which, by his courtesy, I had the privilege of visiting. He uses wind power, twelve-foot mill and eight-inch pump. He has access to creek wate feet; is fully equipped for business and feet, is fully equipped tom to fifteen expects will prow small fruit garden ares. Will grow small fruit, garde vegetables, potaloes and onions. He nr Stratton related to onterprise. howing the value of water to fruit trees, which is worthy of being to fruit trees, which is wo thy of being mind of every man in Kansas. He has
nine apple trees on his residence property in Clay Centre, which, previous to last year, had not been irrigated, and all seemed to be in the spring of 1894 in equally good condition. During last season, the weather being dry, he irrigated three of these apple trees, being all he could reach with the water at his command. The three trees irrigated bore an average of four bushels to the tree, making twelve bushels in all, of very nice apples. The other six apple trees, which were not irrigated, did not bear a single apple, and are now either dead or in a dying condition, while the other three trees are very healthy, thrifty trees, and are well loaded with fruit this year. I saw these trees myself and was no little surprised. Here were six apple trees, large enough to bear annually from five to six bushels to the tree which died from actual thirst-for want of something to drink, and there are thousands of fruit trees dying in Kansa
Yes, irrigation is the winning card to play and our people are fast finding it out. Orchards, fruit cardens and truck patches will soon all be irrigated and then we can live, whether the rains come or don't come.
M. Mohler.

## Concordia, Kas., July 12.

## The Breeders' Interests,

Our readers, especially those engaged the breeding of live stock, generally recognize the importance of having a good cut or drawing linustrative of the best animals in the herd or flock, and that it is the best way to illustrate and show the intending buyer the type and breeding and intends to reeding and intends to sell
Mr. Lou Burk, the greatest of Amer ca's live stock artists, is now in the State for a visit of four weeks among
the fine stock breeders. Mail will
 him and secure a date for a visit from him.

## Deafness Oannot be Oured

by local applications, as they cannot reach the
diseased portion of the ear. There is only one way to care deafness, and that is by constitntlonal remedies. Deafness is cansed by an in flamed condition of the mucons lining of the
eustachian tube. When this tube gets inflamed you have a rumbling sonnd or imperfect hearing, and when it is entireiy closed deafness is
the resalt, and unless the inflammation oan be taken out and this tabe restored to its normal taken out and this tabe restored to its normal nine oases out of ten are oansed by catarrh,
which is nothing but an inflamed oondition of hich is nothing but
the mucons surfaces.
We will give One Hundred Dollars for any oase of deafness (eansed by catarrh) that canirculars, free. F. J. CHENEY \& CO., Toledo, 0. Wold by draggists, 750.
FARM Record.-Our "Farm Records" have been such a splendid seller because of quite limited. We have a number of the best binding only, which the Kansas Farmer will deliver to any address for only one dollar.

DR. HARTMAN'S ADVIOE
Is Sought by Female Sufferers from Ocean to Ooean.
All over the country there are women ho have been invalids for many years, the family doctor cannot cure.
What a boon to such women is Dr. Hartman's free advice! So famous has his skill made him that hardly a hamlet or town in he country but knows his name. He cures tens of thousands, and he offers to every woman who will write to him her symptoms and a history of her trouble, whether it be change of life, ovarian trouble, menstrual maladies classed under the title of female maladies classed under the tree advice and treatment. The medicines he prescribes can be obtained at any drug store, and the cost is within the reach of any woman. He describes mlnutely and carefully just what she shall do and get to makea healthy, robust woman of herself, when her household work will be and life be full of blessings. Every woman who suffers with any form of female trouble should have a copy of a ontirely to of all forms of female derangements. Sent ree to any address by the Pe-ru-na Drug


tifully in Kansas, but it is not alto-
gether a dry region plant. It develops gether adry region plant. State that are visited by abundan rainfall. Where the plant is abuy dant, and other honey plants are cou paratively scarce, by the bees is bitter; and whie a suath portion of its honey me objectiona clover honey mig that if objectiona ble, it is probark upon the honey would only this to work upon the honey woule Its Its honey is no, himply bitter and in any degree, but simply. SMYTH.
unpalatable.
B. unpalatable.

## Studies on a Family of Beetles.

A

## ${ }^{\circ}$ ment 1896.

I wish to call your attention for a few Ioments to our common ground bee tles, the Carabidoe of the scientist. They are common everywhere. You may see the little black fellows scam pering on the bish in all sorts of places Dusk black is the prevailing color Dusky are some beautiful gold and but poes some bronzed, marked green species, dots, and some with yellow heads and legs and blue bodies On closer examination you will obOn close they all have strong curved mandibles. These predaceous mouth mandibles. teristics of the family. We might say the carnivora of the inthey belong to the carnivora of larval sect worl. mature beetle they all, stage to the moxception, feed most voraciously upon all forms of insect life, destroying great numbers of our life, destroying great numbers of our most noxious insects. scrutator, or rummaging ground beete, large gold and green species, The larve cially fond of caterpilars. of the Calosoma calldum, the fot-worm ground beetle, is called the cut-worm som, and will kill and devour worms
much larger than itself. The bordered Calosoma, the species of Pasimuchus and Harpalus, the great Lebia and many others have been distinctly ob served preying upon many of our most noxious insects, as the Rocky Mountain locust, Colorado potato beetle, army worm, cotton boll worm, cut-worm, canker worm, web-worm, plum curculio and many others. There can be no doubt of the great benefit these beetles are to us in keeping down noxious inlem
The adephagous series, to which the The arda belong, comprises six families in our fauna, and may all be easily recognized by the slender antenne, preognized by the slen of their mouth parts, five-jointed tarsi and the structure of five-joist abdominal segment, it being visible only at the sides, the posterior coxa covering the middle. The family Carabidce is a large one, comprising 1,100 species in our fauna. You will notice that the antenne are long and slender and always eleven-jointed, and slender and always under a frontal ridge, be tween the base of the mandible and the twe. The outer lobe of the maxilla is eye. The outer lobe of the maxila is palpiform and usually two-jointed and the inner lobe is curved and ciliate or spined. There are always six abdom far running rapidly and are so variabl for running rapidly and are so variable little value in classification.
The episterna and epimera of the The eplstar a divide the fam ily into sub-families, the sub-family ily into sub-familes, darainue havg while in oxtending to the sub-families, the Harpa he ond the Pseudomorphince it is usulince and the Pseudomorphince, rach the Of these two sub-families, the former have distinct setæ or bristle former have and on the thorax and over the ebhile the latter have no abdomen, while the latier havennal groove. The Harpalince are divided into two sections, the Unisetose, having one bristle over the eye, the large number of our species.
arge number or sub-family, the Pseudomorphince, is of little importance, there being only four North American spebeing only
I trust that these few remarks have

## mcocrmick Corn Binder <br> LIGHT DRAFT = CLEAN WORK =SQUARE-BUTTED BUNDLES



Wm. B. Dana, East Avon, N. Y., Bayg
"I cut 24 acres of corn ranging in beight from $s$ to 14 feet.
P. F. Huntley Jr.,Le Roy, Minn., , ayys:
"Just what is wanted in corn districts."
A. S. Cotton. Manager. "Sanitarium "Cuts and binds all corn-slightly 1odged and tangled, as well as standing, Have tried many corn harve,
 satisfaction." can., Bays:
mpressed upon you the importance of ontomological study. All the creeping hings we see are not to be the nder foot, and it is important to know which to foster and which to fight and how.
Two Orops of Strawberries in One Year, A lady correspondent in Fairfield ounty, Ohio, writos to the Nationa Stockman: "A fruit agent sold us plants of a strawberry which he said would bear two crops in one year. He also said the horticultural editor of the Stockman had the strawberries on ex hibition at our county fair in October last. What I wish to know is: Are they a success?
In reply to which the horticultural ditor of the Stockman says that he saw and admired the dish of beautiful strawberries at the Fairfield county fair, last October. They were not ex hibited by him, but by an intelligent ruit-grower in the northern part o the county. The variety was Enhance, if we remember correctly, a variety we have grown for a number of years with ong that a fall crop could be ob tained from it by special treatment. But it is only by special management that October berries can be had. (1) There must be rich soil, well mansure When the last berries of the exhibito said) they are to be pulled off. Better probably, if the blossoms are pulled of about the time the fruit begins to form. (3) The cultivation is to be begun at once on pulling off the few continuous; This is the way the grower was under tood to have done.
It will be observed that the plan is a kind of forcing, producing a crop, not three or four weeks in advance of the usual time, but six or eight monts the skill of the gardener. Possibly it would not succeed in all seasons. Doubtless if drought should be necessary to avoid failure.
Probably Greenville or Muskingum or some of the other new sorts would respond the same way Enhance does It would be interesting for any one who indispensable conditions to make the napiment with any of these varieties, or with Bubach, Haverland, or some of the older ones.

If you want a reliable dye that will color and satisfy you every time, use Bucking ham's Dye for the Whiskers. "It works well and to my entire
J. R. MoCullough, solomon Clty,

Two men and two horses can cut, ind and shock 12 acres a day.


## Olden Fruit Farm.

The celebrated Olden fruit farm, in Howell county, Missouri, was opened in 1884. It is described in The Southwest as follows:
"The present proprietors are J. C. Evans and Wm. Byers. The farm comprises 2,700 acres, of which 1,350 are in cultivation, 1,340 being in fruit. The number of different 1,000 peach, 46,100 apple, 2,00 pear, 1,500 plum, 400 cherry and 20 as. The blackberrles and these trees is in largest proportion of these trees is in bearing, or the fruit buds on many winter killed the frut of the peach trees. Th and 4,000 apple comprised 18,00 pola trees. From this planting, five yeare later, 30,000 crates of peaches were shipped; also 12,000 crates of ber os Yearly large blocks were cleared and set to trees, and thit wh 1,300 ane tinued until most of the 1,30 acres now in timber has been cleared and planted. One hundred acres will be added to the fruit area next spring In one block there are 440 alres, of 140 ruit. There is one solid block of 140 acres in peaches; another block of "TTes in Elbertas
"The Ben Davis orchard of 100 acres, ine and ten years old, will this season ield 10,000 barrels of apples. It i worthy of note that this 100 -acre or chard, when six years old, produce 3,000 barrels of apples, which sold a olden station for $\$ 3$ per barrel. The present crop is estlmated at 2000 bar els of apples, 5,000 bushels of peache and 2,000 crates of blackberries.

One of the inexpensive little household conveniences that pleases the wife and is a real convenience as well as a guarantee of cull, sold by Fairbanks, Morse \& Co., of Kansas City.

## R  

 A. H. GRIESA, Prop'r Kansas Home Nurseries, Lawrence, Kas, , Brows irees Yor commeroialand family orohards-the Kanas Raspberry, Blackand ramily orohards-the Kanas Raspoerry, Back
berries, ,tandard and new Strawberrite-also Bhade
and evergreen trees adapted to the West.
WILLIS NURSERIES.
Orfers for fall or 1895 large stock, beest
CY. We shonld be gid to employ a fow rellabl
A. WILLIS, Ottawa, Kansa

FRUIT Eavapoaptons
Mont Reliable on tho market. Gataloge free.
WM. STAHL EVAPORATOR CO., QUINCY, ILL.

## In the Dairy.



## BUTTER-MAKING.

By Mrs. B. F. Moore, read before the Farmers'
stitute, at Cherryvale, Kas., February 21, 1886.
As butter is a finished product, we must begin with the producer, the mild, meek-eyed cow. Her care and meeping, combined with what good the first great essential in butter-makthe fi
ing.
We
We will not discuss what breeds are the best, as we have none to sell, and as no owner of a fancy breed has given for himself will let each one settie that or hise a sut every farmer should have a special care to select from his experience, he deems best for his dairy. Now, the next consideration is their comfort. None so poor, none so busy but what, with a little labor and a creature, can construct comfortable winter quarters. It need not be pala tial, for the cow is not arlstocratic, even if her owner shows with great pride a
long line of famous ancestors. Now you have shelter, the next is good feed and a sufficient amount. Give them not only plenty of coarse feed, but a generous allowance of grain. This is
indispensable, for two reasons: (1) To have a good supply of milk, without which you cannot make good butter. (2) To give color and flayor. Your good care and feeding, making milk ing, even in the severest weather, no
bugbear. Contrast this condition for a moment with milking cows drawn and pinched with hunger and cold, and maybe the engineer of the Weather Bureau has opened the throttle wide and, as a distinguished poet truthfully if not sublimely says:
"It anew, it blew, and then It friz, and the boys and girls are sent out in the raging elements to milk, with what result. A sman amount of milk in pail, much bespattered clothing, and, after much labor, a little butter of poor quality, and then we wonder "why the
boys and girls leave the farm." Good boys and girls leave the farm." Good
care of the cows will not only give you a good supply of good milk and pay you financially, but the gentle "moo," "moo," that passes along the line as the feeder enters the door will cause
a desire to further administer to their comfort, and not only of your cows but your stock in general. This will cause you to take more interest and a just
pride in your farm stock in general making you a better farmer, a better neighbor, a better husband and father and an all-around better citizen.
This is a little digression, and we begin at once on our subject, "Buttermaking." In this county, where long, datath, ice a commodity unknown to the farmer's wife, water often scarce and if plenty, only raised to the surface by an "Armstrong's" pump, makes edged butter-makers, an impossibility.
So we can only tell of what we have learned by experience in the old oldlashioned way-raising the cream in essentials in good butter-making is good milk. To insure this you must not have your cows all fresh at one season of the year, even if your dairy consists of only two cows. Set your it above the freezing point in winter and in a place that is free from any odors emanating from cabbage, sourkrout, turnips or any strong-smelling substance. In cold weather and a cool place, let your milk stand forty-eight hours, then skim one tiking each ity of the sun. If in a warm room, and even slightly sour, skim sooner, but never let stand longer. If kept in a cool place, the milk will be perfectly for one milking, neglect to wash and for one milking, neglect to wash and
thoroughly scald every crock or pan, thoroughly scald every crock or pan,
and do not trust the scalding process and do not trust the scalding process
to young and tender hands. Have
regular churning days, which must
come not less than three times a weekin cold weather.
After each skimming, thoroughly evenly. If more than one vessel is used for the cream, do not set one aside when filled, but put half in another vessel and skim in them alternately. If too cool to sour the cream, brin to a warm room a sufficient length of time preceding churning day to acquire the desired acidity. This must be determined by your own judgment, the severity of the weather being taken in account. Do not set your cream on thus bring it in direct contact with the heat, for though you may be diligent in stirring and turning, the flavor of your butter will be spoiled. Set it on a table, or better, if something higher. Raise the temperature of the room if necessary, and stir frequently that the air may assist in its perfect ripening Sometimes in very cold westherchurn ing day will roll around and your cream still sweet, but don't delay or your cream will become bitter. It will require a little higher temperature and onger churning. Scald your churn horoughly, pour in your cream, test as reliable as any) If not at shout $65^{\circ}$ remove your dasher, take aoiling wat (be sure it dances as well as sings) pour in very slowly, stirring rapidly with a strong wooden paddle. Be very careful about the amount of hot water Test it several times, that you may not get the temperature too high and make your butter unfit for use
Now commence your churning. D not be impatient if your butter does not come in fifteen or twenty minutes, and dash in more hot water to "kill the witch," but churn briskly, that the bide your time. not be lowered, and ide your time. There are condition hat sometimes exist in the dairy tha e fail to understand that cause but Wher slowly
When churning is finished, draw off he buttermilk, or if that cannot b one, remove your butter to your bowl and let that be ample) and wash thor oughly. Wash until the water remain lear, which for a churning of ten pounds will require from three to five pailfuls. Salt, work slightly, set aside until the salt dissolves, in a room not too cool, then rework until thoroughly
incorporated. Mold or roll, as your ustomers prefer, and market as 800 as possible, that it may reach the con umer while it yet retains the fresh flavor which all butter loses with age. But if not sold immediately, keep ex-
cluded from the air, and I would just cluded from the air, and I would just say, right here, that is one reason why creamery butter has a fresher and richer taste-because it is made and marketed daily. But for good keeping qualities none equals good farm butter when well made and thoroughly washed and well but not over-worked.
In the spring and fall, when vegetation is green and plenty, weather favorable and a good flow of milk, butter-making is comparatively easy, and if proper care is taken in regard to thorough scalding and frequent churning, all can have good butter. But aring the long, sultry days of July and August, with their ferce sun and is a task, not a pleasure. But as we must have butter, we must do the best we can. Set your milk in as cool a place as you have. Skim morning and evening, churn daily, pour in churn you have cream. If possible, stop churning when the butter is in the granular state, as you can free it from buttermilk much better and it will be pour in a pail of water, let stand about en minutes, then draw off buttermilk wash, salt and set aside; work until an possible to obtain the but as lightly as pack in crock or jar, cover with a cloth wet in brine, and tie over tightly with the air and your butter will be much firmer. But with all care and precaution at this season of the year precaube, as we sometimes say sear it will people, "soft and spoony," but it need not be cheesy or rancid.
I said in the beginning that cows
were not aristocratic, though fullbloods of some noted herd, but butter as exclusive in its associations as the "four hundred" of New York city. he water and vessels used in its contruction have done previous duty in the work of the household, it waxeth strong and refuseth to roll as a sweet morsel under the tongue. Now the ummary of our way of making butter ithout any of the modern dairy ap pliances, are, good shelter, a generous llowance of grain and coarse feed ood milk, careful skimming, regular ad frequent churning days, smple upply of clean hot and cold water horough washing of butter, good salt nd taken to market in a way to please our customers, alwsys bearing in mind that no amount of labor or oloring can make even palatable butor out of frozen or scalded cream
But I hear you say: "At
But I hear you say: "At the present pay the cost of production Why ex payd so end so "Wh labor without any recom as long as alith nd all such oleomargarine, butterine nood the compounds are allowed to ood the market without any legisla on ha regard to them. Of the many undred Shousand pounds made in the nited states, one-hall lo produced in nformed that it is mand have been hind closed doors. Think of food be ing closed doors. Think of food being made in concealment, that is nanded for the human stomach. Made of the reluse of packing estabishments, drugged to destroy its foul dors, colored and moulded to imitate butter.
Is it not time farmers should arouse rom their lethargy? Is it not time they should stop considering themelves as only ciphers as regards legisation, thinking the laws will be made 0 suit the law-makers, or better still, or a personal benefit, sitting idly, showing no interest in the affairs of the country, only during a campaign? We have naught to aay against ivs
manufacture, only that it may not bo allowed to sail under false colors. In Massachusetts and Iowa, where they have not restricted its manufacture nly that it should not be colored to mitate butter, not a pound can be sold. egislative has been belore one of the egislative committees of our own tate and has been adversely reported, and unless there is lively rattling among the dry bones nothing will be ferent lines that need no legisiation. erent lines that need no legisiation. One of the first is that each one be a purpose of finding the mote in our neighbor's eye, but to revolutionize the work in our own dairy, laying aside that which is detrimental to the best results and learning the best way, even the smallest detain. To assist in this, each farmer should take some reliable farm paper, gather themselves
together for exchange of ideas. There should be more care in the marketing. Butter can never reach the foreign consumer when thrown in one oonglomorate mass and allowed to lie around or several days or probably a week, like cabbage or potatoes. But if each will take an active interest, one reform will lead to another, until all will be righted.
Being a farmer's wife and making butter to sell to lengthen the pursestrings or for a little pin-money, may not be an ideal life for some, but if that is your lot from cholce or has been thrust upon you, act your part wisely and well, and when your golden prod-
ucts are sought after because of their excellency, it will give you a feeling of ndependence and dignity that is never ealized from work half done. The inerest and pride you take in your work will extend to all the other members of he household; your home will be happier, your husband kinder and the pildren more contented. Honor your profession and it will honor you.
And I would just say, in conclusion, 0 the voters, if they will give us the ballot we will lay aside the time-honred broomstick for the good it has one us in the past and nobly join our warfare sgainst all hog-butter productions, under every agsumed name and end a hearty support and an a, and interest in all needed and just legislation.

Every farmer in Kansas, and especially the breeders and stock-raisers, hould have the greatest live stock ournal in the world, the Breeder's $G a$ ette, of Chicago, price $\$ 2$ a year. We make a special offer of it and the KANsas FARMER, both papers one year, for only 82. Subscribe now through this offlice. Agents wanted for Gearhart's Family
Knitter. For yarticulars address J. E. Gearhart, Clearfield, Pa.

## DAVIS havd or powen GREAM SEPARATOR quality than by other known syatem. SAVES MONEY AND LABOR 

CHEESE APPARATUS
 substantial A ten- pound oheees made at enoh op-
aration. Nothing ilike it on the market. Blmple sent by manurrs.
CIDERI Wider
Yon can make a ilttle more older, a little whthagreatdeaillesianork on the Hyydraul Address for Illustrated Catalogue of Cider and Fruit Machinery, DAVIS-JOHNSON CO., 45 Jackson Street, CHICAGO, ILL.




##  KEYSTONE

 Corn Huskers and Fodder Shredders are further improved for 1895. Better than ever before. You can learn all "The Great Leak On The Farm.'KEYSTONE MFG. CO., Sterling, III.

## Creamery and Dairy

BUTTER PACKAGES of every kind. -0e

## HAND SEPARATORS ${ }^{\text {Resign }}$ <br> 

Creamery Package M' f g Co.,

What is "Oooking Butter?"
One of the laws of Massachusetts regulating the sale of oleomargarine provides a fine for any one who senls oleomargarine to any person who asks for butter. Recenthy, an age went into Dairy Bureau ooke and called for buta store in Holyoke ase of conveying in-
ter. For the purpose for. For the purposen osman as to the kind of butter which he wanted, he kind of butter whuen by calling for "cooking butter." The merchant furnished him oleomargarine, and was convicted in the District court. in the case was appealed and tried in the Judge Hopkins instructed the jury, says the New England Farmer, that if they found that "cooking butter" was an article of commerce, separate and distinct from butter, they should acquit the defendant. If, however, they found that "cooking buther"er, and that a kind orgarine therefore was sold when butter was called for, they should re butter a verdict of guilty. The jury after struggling with the case a agree.
afternoon, finally were unable to
If you want one of the finest maga zines published, send us $\$ 2.25$.

## Heart Disease Cured

By Dr. Miles' Heart Cure.
Fainting, Weak or Hungry Spells, Irregular or Intermittent Pulse, Fluttering or Palpitation, Ohoking Sensation, Shortness are
Breath, Swelling of Feet and Ankles, are symptoms of a diseased or Weak Heart.


MRS. N. C. MILLER.
of Fort Wayne, Ind., writes on Nov. 29, 1894: "I was afflicted for forty years with hear trouble and suffered untold agony. Ihad weak, hungry spells, and mold be so acute and torturing, that I became so weak and nervous I could not sleep. I was treated by several physicians without rellef and gave up ever being well again. About two yol ago I commenced using Dr. Miles Remedie One bottle of the Heart Cura stopped an beart troubles an wow I sleep soundly and atdend to my household and social duties with tend to my houle.
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 forehean, righth hind foot white. Cherokee county-P. M. Humphrey, clerk


 ralued at tio.
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 forenend, wire eut on ronteg,
Neosho county-W. P. Wright, clerk. PoNY - Taken up by Pullip Shafer, in Linnoln tp.
June 4,189, one n left slide and hitp valued at k 12 .
herokee county --P. M. Humphrey, clerk.

 Harvey county-T. P. Murphy, clers.


 FOR WEEK ENDING JULY 17, 1895. Miami county-Jas. E. Caton, clerk.
 Wailo fork.
Valueat atotit.
Cherokee $\mathbf{c}$
herokee county-P. M. Humphrey, clerk.



 welght 1,100 pounds. Crawford county-Peter McDonnell, clerk. MULE-Taken up by Lyman Jones, of Pltasurg,





## Che Peterinatian.

We coraially invite our readors to connaitt na Hhenever they deeire any information in regara to
Hot or lime anlmals, and thus asisist us
nis mating
 thandIng, and what treatment in any, has been re
Horted to. All replies hroughtinis olumn are free.
Bomettmes parties write us requesting a reply by




SORE EYES. - I have a cow that has tumor in one eye; it is so large one cannot see the eyeball at all. The eye burning with caustic. The other eye is also inflamed. What would you recommend?
Cherokee, Kas.
Answer. - Your description is not definite enough. There is a species of bleeding cancer which affects the eye that is hard to cure. Such growths and the eye is too delicate an organ to be tampered with by a novice.
WIre Cut.-I have a two-year-old filly that about six weeks ago cut her exposed for about four inches and all of the muscles cut but not completely severed. A large piece hung down so it would not unite and I cut it off. The other leg had a cut near the knee and as near as I can judge the flexor pedis was completely severed, and the lower got so large in a few days that I cut it off and now the flesh is healing over it The knee joint is enlarged and hard Did I do right in cutting off the parts? What effect will this have on her action in the future? She is well bred and I wanted her for a driver

Oberlin, Kas.
Answer.-It was all right to cut the loose parts off if they could not be made to unite. If the extensor pedis was completely divided it may leave a defective action; but young animals generally outgrow such things in time. The enlarged knee will gradually go down after the cut is all healed.
BloODY MILK.-I have a cow that trouble is of several months standing What can be done for her? L. S. C. Marion, Kas.
Answer.-There is doubtless some diseased condition of the udder, and a cure is very uncertain. Give the cow two heaping teaspoonfuls of nitrate of potash and two teaspoonfuls of fluid extract of phytolacca decandra twice a day for a week and at the same time milk her thoroughly clean morning and evening, and each time bathe the affected quarter of the udder with cold water for ten or fifteen minutes. If there is no improvement with this treatment the cow may as well be turned dry
Lame Cow.-I have a young cow year as to be almost unable to walk. The trouble seems to be in the shoulders or front legs. She braces her feet and arches her back when walking. I have another that is lame but not so ad. What can I do for them?
Quincy, Kas.
Answer.-The symptoms are those of sore feet, rather than of sore shoulders. Poultice their feet for a day or two with warm poultices made of ground laxseed, then examine to see if there are no sores or cracks about them. If any are found wash them once a day with a solution made by dissolving a teaspoonful of sulphate of copper in one pint of water. Keep the whe will not be required to travel much for a few days.
Interesting circulars sent to farmers. Send name to Bureau of Immigration, Sposane, Wash.

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sellis for 8 , you can wash and dry the dishen for
family in two minutes, without putting the hands in Water. As soon as people see the washer work, they
want one and that 18 why so muoh money can be
made so quiokly. For full partloulars addaress The
 WIIl very soon have a dilh-washer. Try Tit and pub
Hish your experience for the beneit of others.

MARKET-REPORTS

## Kansas cley Live stock.

Karsas City, July 15.-Cattle-Reoelpts since Saturday, 8,773: calves, s50; shipled Saturday, pes cattle, 83 calves. Good natives were
steady. Western and Texas cattle 放 15 cents steway. The following are representative salest
lowe
 Saturday, sze The market was strong to so
hither. The following are representativo
 $\underset{\text { Sheep-Recelpts }}{24}$ generally steady to none. The market was
strong and active. The

Horses-Receipts since Saturday, 38; shipped Saturday, none. It was quiet as usual about
the horse and mule market this morning. Howthe horse and mule market this morning. Howthe markets. The supply is light.

Chicago Live stock.
Chicaco, July 15.-Cattle-Recelpts, 16,003; air to good beeves, 83.50@5.80; stookers and redera, $82.25 @ 3.83 ;$ mlxad cows and bulls,
1.70 4.20 , Texas, 825004.50 . 1.70@4.20: Texas, $82.50 @ 4.50$.
Hogs - Receipts, ight closed higher; others weak; light, 81.819 .30; rough packing, 81.6004 .85 ; mixed and butchers, $81.75(05.25 ;$ heavy paoking and ship-
ping, 84.90 ans.30; plgs, 8.5004 .83 ,
Sheep-Receipts, 12, 200 ; market strong; nat-
2e. 00000044.2 ; western, 22533.65 ; Texans, 200 003.35 ; lambs, 83.25 §5.75.

St. Louls Live stook.
ST. Lours, July 15.-Cattle-Receipts. 4,500; market steady for desirable grades, 100 lower for
$82.00 \mathrm{c}_{3} 3.40$; TTxas calves, $80.50 @ 8.30$; native teers, $83.40 € 3.60$.
Hovs-Recepts; $8.000 ;$ market 100 higher;
heavy, 81.9〕@5.25; mixed, 84.70@s.15; 11ght, 81.80 Q5. ${ }^{20}$.
Sheep-Recetpts, 1,000; market shade higher.
Chtcago Grain and Provisions.


## Kansas Olty Graln.

Kansas Crry, July 16.-The wheat marke here to-day was still in an unsatisfactory con
dition. Prices were about the same as Satur day,as a rule,though netther buyers nor sellers were satisfled. Most of the wheat offered was
damp, and off grade. No good soft wheat was
. on sale, and buyers would not venture a bld on any had been here.
170 cars.
Sales of car lots by sample on track, Kansas
City: No. city: No. 3 hard wheas. 4 cars old e4o, 10 cars
blo: No. 3 hard, 3 cars 60 : No. 4 hard, 2 car good 58c; No, 3 red, new, nominally, 04 abse; old
nominally, 88 ; No. 3 red, 3 cars, choice No. 4 red. 1 car $57 \mathrm{c}, 5$ cars 56 c : re
E50, 1 car 5 ? $\mathrm{c} ;$ no grade, 1 car 48 c .
Corn was firmly held and in fair dem nnd
early, but later was somewhat weaker. Nothearly, but later was somewhat weaker. Noth-
ing was doing in new crop delivery. to arrive promptly at 40c.
Recelpts of corn to-day, 17 carss a year ago, 83 ars.
Sales by
Sales by sample on track, Kansas Cltv: No.
3 mixed corn, 1 car 410; 5 cars $40 \$ \mathrm{c}, 3$ car mixed corn, 1 car 410 ; 5 cars $403 \mathrm{zo}, 3$ car
$403 \mathrm{c}, 13$ cars to arrive 40 c ; No. 3 mixed, nomi-
nally, $40 \mathrm{c} ; \mathrm{No} 4$, 4naly, $40 \mathrm{c} ; \mathrm{No} .4$ mixed, nominally, 39, No
nal
2 white, 3 cars $40 \%$, 2 cars 410; No. 3 white nominally, 400.
Good old oats sold readily and were flrmly
held New oats of poor quality, of which several cars are on sale, met with ittle de-
mand



#### Abstract

Recelpts of oats to-day, 3 cars; a year ago 48 cars. Sales by sample on track, Kansas City: No  nally, 21 Q2io; No. 4, new, 1 car 160 , Nomi- 2 white oats, nominally, 280 : No. 3 white oats, nominally, 25@286.


Sx. Lours, July 15 Louls Grain. last year, 175,782 bu.: oorn, 1,400 bu.. last year,
12,300 bu.; oats, 33,000 bu.: last year, 54,000 bu

 closing prices: Wheat-Cash,
bid; September, $68 \% \mathrm{bld}$; December, coyso bid. Corn-Cash, $41 / 1 / \mathrm{c}:$ July, $41 \%$; Soptember, 42\%; December, 813/6. Oatt-
July, 240 bld; September, 2316 .

## Kansas City Produce. <br> reansas City, July 15. - Prices quoted below for country produce are for wholesale lotz

 charged.Eggs-Recelpts light: oandled stock, 81/6 per
doz. Poultry-Recelpts falr; market firm on springs, $11 / \mathrm{lbs}$. and over, 10 c ; roosters, 150 Turiceys, gobblers, 6o: hens, 7o. Ducks,
 wanted, $81 / 1040$
81.00 per doz
Butter-Recelpts fair; creamery in heavy rapply and market weak: extra fancy sepa-
rator, heavy, supply, 1sk: falr, 13 gitco dairy, 8o; off grades, 70 .
Fruits-Apples, market steady: fancy, hand plaked, $40 @ 600$ per bu.; windrall, 20@300; shipping
stook,
stook,
soc 281.25
sider 83.0007 .00 ; ommon to ebolee varleties,
$82.00 @ 4.00$ per bbl; orab apples, 81 per bol
 $25(9350$ per $3 /$ bu. Arkansas yellow plums,
500 per crate. Peaches, home grown, 500650 per $1 /$ bu. basket, 30035 c per peck: Arkansas clingstones, 30040 c : common grades 20 ف2335. ate, 35 etable per bu. : sweet potap suply moderand yellow, 2\%@3jc per bu Cabbage, slow, @50e per bu.
Onlons, new, California, 509700 per bu.
INDIANA - GROWN The hardiest geed. Bend CRIMSON $\left.\begin{array}{c}\text { The har halest seed. \&end } \\ \text { postal for exhanative tran- } \\ \text { tise on the plant. Dont pay }\end{array}\right\}$ CLOVER one cent for soed untll you know whether you can
one
grow ti. J.A. Everett, Beedsman, Indianapolis, Ind

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pickle.-N. Y. World.

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will save the birds. But in many cases sad havoc is wrought before the enemy is conquered at all, and great is the loss, which if taken in time might have been averted. If breeders would do appears in their flock that they do afterwards, how much trouble would be saved.

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| Hogs. |
| :---: |
| $\begin{array}{r} \overline{2,547,07} \\ 2,060,7 \\ 11,4 \\ \hline 109 \end{array}$ |

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