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## BREEDERS' DIRECTORY.


 HORsEs.
JOSEPH FUHRMAN, No日TH WicHiTA, KA8.-
Pureeder of French Coach and Pereheron horses Pure-urec young stock, of both sexes, for sale; also
krade animals. Prices as low as same quality o

PROSPEOT FARM-CLYDESDALE STALLIONB,
SHORT-HORN CATME, Write for prices of POLAND-CHINA HOGB.
finest animals in Kansas. H.
W. Mfee, Topeka, Kas. CATTLE.
V For sale, cholce young bulis and helfers at rea Von For sale, oholce young bulls and helfers at reaz
sonabe prices. Call on or address Thos. P. Babst,
Dover, Kes, Dover, Kas. Imported Buccaneer at head. Reglitereed bulis,
heifers and cows ant bed-rock prices. D. P. Norton,
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hartne, Dorchester, Green Co., mo.
SWINE.
POLAND-CHINAS. - Dletrich \& Gentry, Rlohsows and two very yine young sows bred that they
Will sell cheap. Breeding chotow. Quality guaran-
teed. Write or come and see us.
A. W. THEMANSON, WATHENA, KAB.-Poland-
ders; he ha boars. Glto bred to Gracelul F. San-
 F.630, by A. A., by Blaok U. S. Bire and dam both
Hirtiprize winners at World's Fair and desoendants
of Black U.

TOPRKA HERD OF BERKSHIRESS,- Strong-


TOPEKA, KANSAS, WEDNESDAY, APRIL 24, 1895.


V B. HOWEY, Box 103, Topeka, Kas., breeder and
 glish Bert.
olikens.
O bred for spring farrow, orders bolleited.
H. B. DAY, Dwight, Morris Co., Kas. For saLE CHEAP - Choloe Poland-China boar

M APLE GROVE HERD OF FANCY BRED PO

F Br SALE-Duroo-Jersey plgs; also Poland-China. Barred Plymouth Rook and, Brown Leegorn chick
ens. Ready to Bhlp out. J. M. Young, Liberty, Kas. D. TROTT, Abllene, Kas.-Pedikreed. Poland-Ch1Light Brahma, Plymouth Rock, B. WYandoture chys.
ens and R. Pekin ducks. Egks. Of the best. Cheap.

CATTLE AND SWINE.
FANCT Polard-China and Gilts, J. H. TAYLOR, Pear), ASGLAND BTOCK FARM HERD OF THOR
 ndivilual merit and giltedgear peodigreo my motto naspection of herd and correspondence so
M. C. Vansell. Musootah. Atchison Co.. Kas. POULTRY.
PURE-BRED LANGSHAN AND BARRED PLY
mmouh Rock eggs one doollar per thrteen. Ad-
dress Robert Crow, Miasourl Pacifle Railway Agent, ress Robert Cr
Pomona, Kas.
EGS BY MALL-Are not allowed, but I will send
EEgs by expresg from Buff Leghorn. Buff Ply
outh Rook or Sliver W yandeten mouth Rook or siver Wyandottes at si.
ting. F. H. Larrabee, Hutchinson, Kas.
GGG FOR HATCHING-White Holland turkey
Si.25 per 13; Whit Guinea and Plymouth Rock
Gve. per 13. Mark FIRE BURNED MY Home - And all my grai
 A. B. DILLE \& SONS, EDGErton, KAs., breedere Brahmas and M. B. turkeys. Chicken eggs 81 It 82
per 15 ; turkey eggs 83 per 11. Satisfaction guaranteed.

 EGGS SXTY-FIVE CKNTS FOR THIETEEEN. Brown Lockg, Biack Langsihans, Butr, White and
Bolan Lerns. For sale, voung stock from Wren' Poland-China pigs. Write for prices. No better
stoek in the West. Zachary Taylor, Marion, Kas. "THE PROOF OF THE PUDDING IS IN THE
show-roomg." The proof of good poultry ts the the the


 BROVzR fugrby Rgas

Years Breeders of B. P. Rocks

 Joe Cunningham \& Co., Loree, Miami Co., Ind

ㅍ. ㅍ. AXK工INNE
arred Plymouth Rocks
Bred from the best stratns and judiclous matings,
Eggs 81 per setting of fifteen. Satisfactlon guarant'd SWINE.
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swine.
SELECT HERD OF BERKSHIRES



S. McCULLOUGH,

 BERKSHIRES.
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hand for buyers.
THE WOOD DALE BERKSHIRES Champlons of Two World's Fairs.
New Orleans, 1885 , best herd, largest hog any breed
AtColumbian, Chicago, won ten out of eighteen first At Columbian, Chicago, won ten out of eighteen tirst
prizes, the other elght belng bred at or
ant of opeond. prizes, the other eight being bred at or by descend-
ants or WVod Dale. New blood by an 189\% importa-
tion of Z1 head from England. For catalogue
Ad Address N. H. GENTRY, SEDALIA, MO, , Large Berkshire Swine Headed by King Lee II. 29801, Mephistopheles 32412 . BOURBON COUNTY HERD, English o Berkshire o Swine. J. S. MAGERS, Prop., Arcadis, Kas.
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bred to head herds and to supply those wanting none red to head herds and to supply those wanting none
but the best. Fall litters now can't be beat. Write
or W
J. W. BABBITT, HIAWATHA, KAS. Regist'd Berkshire Swine
45 in herd, headed byLord 45 in herd, headed by Lord
Majestics
Lord Wince8 a a son on Imp.
 Lord Windso
Imp. Majest boars, 12 glits, by Mod
of 1899 farrows, both se BERT WISE Hosteln Cattle and Porred Phinnouth Hogs
Rock Butler's DDarkness No. 6846 . 8 and and Ideal strains.
and Nemo
head of swine herd.
Only on order. sows bred and a pew extra good young
boars for sale. Three are out of my orient sows. Write your wants. Satisfaction Euaranteed. Kas

## GEORGE TOPPING

 Cedar Point, Kas.(chase co.)

LARGE ENGLISH BERKSHIRE SWINE of best families and breeding. Cholee plag for sale
 JOHN A. DOWELL'S HERD REGISTERED POLAND-CHINA SWINE 130 head, all ages, headed by onward 8981 s.
ired byGeorge Wilkee. He masisted by TTeum
eh Wilkes, sired by sired by George Wilkes. He is assisted by Tecum-
seh Wikes,
females belong to thG General Wikes 21297 .The
for
 Swine. Some fine young
bars it for service for sale. STANDARD POLAND-CHINA HERD. OHAS. A. CANNON, Propritior,
HARRISONVILLE, UASS OOUNTY, MISSOURI
Breeder and shiper of registered Poland-China
 tation 27285 O . also a son of Tecumseh Jr. 10200
o. Z20 head herd. Young boars and gilts yet
on farm. Write or come and vibit me.

CATTLEE.

G. W. GLICK, ATCHISON, KAS.
 bert, Cragg, Princoss, Gwynne, Ledy JJne and other
fashonabo families. The grand Bates bulls Water-
oo Dnit
 ( 5 Makin Bros.


 ROCK QUARRY HERD.

 and Mammoth Bronze turkeys.
W. S. ATTEBURY, Rossvile, Kansas. Chester Whites Extisfactlon Eyively. Young stock at all
 Carene with butter record of over 35 ibs, In 7 days.
backed
Young bulls for sale. Red pigs in pairs, henvy bone. DUROO JHRSEY RHDS ready for service Poland-China males ready for
use. Pigs of ail ages in pairs not related. Young
tilt, ent
 AND POIAND-OHINAS. 2,806 olic Ewaw wis ithein hatsindian ition end honong:
(Bratera Direan contrar

FARMERS!
Prevent Your Hogs From Rooting

## $\left.0{ }^{\text {mos }}\right)$ <br> - me

## WOLVERINE

HOG RINGER and RINGS.
Best and Cheapest in the market. For sale
at Hardware and GGeneral Btores. Man'r by
Heesen Bros. \& Co., Tecumsel, Mich.

BARRED PLYMOUTH ROCKS EXCLUSIVELY.



## gne Stock Interest.

## THOROUGHBRED STOOK SALES.

Datate clated only for sale wh.

 $\qquad$ II, Marainall, Mo




## RED POLLED OATTLE.

Editor Kansas Farmer:-Your correspondent, in issue of April 10 , asks "the opinion of those competent to judge, but not prejudiced by interest," concerning the merits of Red Polled cattle. I would suggest to Mr. Dryden that he write to Mr. T. V. Hills, of Delaware, O., for his pamphlet, which will give all the information any reasonable man can wish in favor of this beautiful and excellent breed of cattle. To do justice, Mr. Dryden should state to Mr. Hills that he learned of him drop a suggestion that an advertisement in that excellent journal would be beneficial to himself. Yet Mr. Hills is "prejudiced by interest," but not, I hope, to such an extent as to
cause him to print other than the truth.
I am, perhaps, not a "competent judge," having learned of the merits of these cattle principally from others. past teen reading about them "or the diced" in their favor that last winter I paid $\$ 100$ and cost of transportation for a cow, which has brought me a fine bull calf. I therefore became "prejudiced by interest" to such an extent as to place a little advertisement in the "Two-cent column" of Kansas Farmer to dispose of this calf, because he is akin to his mother (which, like Jef-

 bl
 ny in Nebraska for some or the prog 10th
I am in love with these cattle. (1) Because they are the most beautiful of all cattle, being always red and all red, and hornless, symmetrical in form, having long bodies, low down. In countenance they possess a peaceful, docile, look, a look of satisfied contentment beaming from the eye. that none other of the bovine tribes possess. (2) I am in love with them because of their usefulness, vieing with the Holstein in filling the pail at milking time, and wil raise a calf of which the leeder, when he comes to buy your calves, will not say: "I do not want that black and white one. He won't fatten." And when your Red Poll has served her time of usefulness at the pail, and you take her to the butcher, he will not say: "Thatold bony black and white cow won't dress 40 per cent." I am "prejudiced by interest." I own a pure bred Holstein cow. They vie with the Jersey in filling the larder at churning time, and when you sit down to milk Red Poll, her large, shapely, wellplaced teats fill your hands, while the lacteal fluid flows freely. You don't have to take hold with thumb and index finger and strip like you were milking a nanny goat. Besides, Red poxis dond thave to be kept in a bed with cologne. The box and perfumed with cologne, "preju diced by interest" again, as I have some grade Jerseys. They vie with the Short-horn, Hereford and Angus for producing early-matured, juicy beef. (3) I am in love with them because they are hornless, and that progeny of thoroughbred bulls, from horned cows, are hornless.
I have always been an advocate of this method of dehorning, and about seven years ago I wrote an article Shortly after, I received a handsome circular from L. F. Ross, of Iowa City, Iowa, then President of the Red Polled Cattle Club, on which he had written: Ithank you for your sensible article in

Off:'" That made me feel quite proud; 0.9039 . Equivalent record at full age perhaps emboldens me now, to attempt 28 pounds 8.83 ounces.
wilkie Blatr.
eulah Land farm, Beulah, Crawfor Co., Kas.

## Polled Durhams.

Editor Kansas Farmer:-I see in your issue of April 10 a request for information regarding Red Polled cattle. Why did he not ask also for informa tion regarding the Polled Durham that are advertised in Breeder's Gazette I see by advertisements that they are Book." I have never seen any of them

## Hutchinson Kas.

B. F. Gehmañ.

## Going Back to Stook.

Editor Kansas Farmer:-It is dry no rain yet. Many farmers are wait ing, others are planting. Should it rain, a very large crop of corn, Kaffrr
corn and cane will be planted. But corn and cane will be planted. But
little oats have been sown; some barley but neither is doing well.
The sorghum sugar mill at this piace will not be operated this season. It eems to be a failure, but caused more from management than lack of output. The farmers are very sore over their losses, many of them no
having received anything for their cane or last year
Barber county is certainly proving herself to be a good fruit country. Last year our orchardists thought they had a bonanza, but this year will
clipse last year. Just now the plum peach, apple and apricot indicate a ery large yield. Grapes are not so promising, having been frozen to main tem in many places. Small fruits ar also injured by the severe freezing.
The wheat crop is almost an entire

page coiled spring fence wire.
failure; but few fields show any vitality. Our residents feel hopeful, although they have been having a crucial test. The signs all point to stock, and as this county is and has always been free and natural shelter stockmen are be ginning to turn their attention exclusively to pastoral pursuits.
Some farmers are putting in irrigating plants, but it is difficult in many places to reach the underflow so as to procure sufficient water for irrigation purposes.
Medicine Lodge, Kas., April 15.

## Holstein-Friesian Breeders.

The tenth annual meeting of the Holstein-Friesian Association of Amer ica was held at the Park Avenue hot
New York, March 20. There was good attendance of members. Th Secretary reported a gratifying in crease in membersno, being 457. The Treasurer's report was also satisfac tory, showing a balance of $\$ 15,056$ on hand.
Superintendent of Advanced Registry, S . Hoxie, made a lengthy report on the tests made during the past
year, when $\$ 1,000$ was distributed year, when $\$ 1,000$ was
in prizes by the association for weekly in prizes by the association for weekly
butter records. The best record was that of Mutual Friend 3d 28389, owned by T. G. Yeomans \& Sons, Walworth, N. Y. The test was conducted by Prof. H. H. Wing, of Cornell Experiment Station. Test began November 20, 1894. Age of cow at time test began, 3 years 2 months 24 days. Days from calving, 17. Total pounds of milk given, 409 3-16. Average per cent. of butter fat in milk, 4.27; highest per cent. fat 4.9: lowest, 3.6. Total pounds of fat in milk, 17,472. Total pounds of
butter ( 80 per cent. fat), 21.84 . Pounds butter ( 80 per cent. fat), 21.84. Pounds
required of a cow at that age, 11,471 . Her per cent. in excess of requirement

China sow, Judith 31808 S. She is in breeding form, not rat. From end of nose to root of tail she
inches; around girth, 5 feet 1 inch; inches; around girth, $\begin{aligned} & \text { around flank, } 5 \text { feet; from front of hock }\end{aligned}$ around flank, 5 feet; from front of hock
joint over back to front of the other joint over back to front
hock joint, 4 feet 4 inches.

Will some of our many swine breedors tell whether this is a well-propor tioned hog or not? Also, will some one tell what parts to measure, naming lines over which to measure, and nam ing starting and stopping points, so as to convey an idea of a hog's $\quad \mathrm{W}$. B. Beu

## Beulah, Kas.

## Preventing Horns.

This is the method pursued by Mrs. M. E. Nelson, of Wichita, Kas., for keeping the horns off her cattle: She weeks old; wraps a stick of caustic potash with tinfoil or other article, leaving one end of the caustic free, and wetting that end she applies it briskly to the little horns. "Be careful," she urges, "to prevent the caustic from contact with your own flesh or that of the calf, except a space the size of a silver dime immediately upon the embryonic horn. When the horn is burned out, apply cider vinegar to the sore, after which fill the cavity with finely pulverized alum. In most cases the bleeding will be slight. The above treatment may have to be repeated intion fails three weeks if the frrst application fails. I have used this method of prevent-
ing horns for three years with unvarying success." Exchange.

Spring is full of terrors to all whose con stitution is not able to resist the sudden changes of temperature and other insalu brities of the season. To put the system in condition to overcome these evili, natg Sarsaparilla. Take

## ASufferer Cured

"Every season, from the time I
was two years old, I suffered dread. fully from erysipelas, which kep growing worse until my hands wer almost useless. The bones softened so that they would bend, and severa
of my fingers are now crooked from this cause. On my hand I carry large scars, which, but fo

## 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 seemed to reach the spot and a persistent use of it has perfected the cure."- O. C. Davis, Wautoma, W is.

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

## Misoellaneous Notes

Onions are great health-givers; grow and them.
In the regions of no winter farmers have o season of rest
A dairyman must be pretty well off if he It does not follow thet It does not follow that one is a scrub clean
If we could only agree on how to get good iods as easily as we can on their desirability 1
Are you not glad you put up ice? It will
help make a possibly hot summer much cooler.
One of the best road materials is common dirt moistened with the sweat of roadworkers, but it is rarely used.
Your straight lime whitewash is a great puritier and deodorizer, and in
spring-time it should be applied.
The farm brood mare is the most useful animal on the place; treat her kindly and feed her well.
Have lots of melons for the family and the harvest hands; they cost but little and tropics produce nothing so delicious. The distance between the pig and the hog, the calf and the ox, is not so long as it used to be; "early maturity" shortened it. A dairy in hot weather without ice nolifike a kitchen without good fueltion.
For Coughs, Asthm: and Throat Disorders "Brown's Bronchial Troches" are effectual remedy. Sold only in boxes.

## A New Talking Machine

It differs from the phonograph in this: The latter only repeats what is said to it, while this mach will convince the inquirer in moment that there is but one safe way to build wire fence, namely, to recognize and provide for contraction and expansion, and one interview will generally satisfy that the continuous coiled steel spring is only practical method yet discovered. The cut (on this page) was made from a proto graph of two machines, the upper ond
shows the coiled wire and the straight wire stretched exactly alike, as they would appear in a new fence, in the other, the lever is thrown back, loosening both wires, precisely the same, and it shows how little the "Coiled Spring" is affected, while the straight wire is rendered entirely useless for fence purposes. While in practice these changes will not occur so suddenly, they changes in temperature, or animals crowd or run into the fence.
or run into the fence. simply to introduce the subject and call the attention of those who need fence to the Page Woven Wire, which is built on this identical plan, and is the only elastic fenc offered. The real fence also has the knack "speaking for itself," delivering lecturest," "Attention to Businer "" "Keeping Ever lastingly at it," etc. Write the Page Woven Wire Fence Co., Adrian, Mich., and lear all about it.

## Agricultural Allatters.

## SUBSOILING FOR OORN.

In growing corn it is important to select the varieties that are prolific in ears of corn and in grain rather than in size or length of cob or stalk, and abundance of fodder. Sixty-two pounds shelled corn from seventy on the cob is not too much to expect. This precaution the "corn field," because our conditions the "corn field," because our conditions of climate and soil induce too great a growth of those less valuable parts of the plant. It is well known by experienced farmers with us that any large variety of corn that may be cultivated continuously for a number of years will result in much greater growth of stalk and fodder than is essential or desirable -much greater than would accompany the growth of the same amount of corn in an equal yield per acre in corn fields in any prairie country lying north of Kansas or east of the Mississippi river.
It was probably this quality in our corn that induced the old farmer and his wife, when looking at our corn at the Centennial Exhibition, to remark that probably the stalks were spliced. When assured by the genial Kansan in charge that the stalks were not spliced, "Well, dad," the old lady remarked, "it didn't all grow in one season." This excessive growth of stalk is detrimental to the crop. As a rule the large plant requires a greater time to mature or reach the stage when its ear is securely out of the reach of a drought, as dry weather of more or less severity is always imminent in the corn belt during the month of August. It follows that the fields that have outstripped other fields to the extent of one week or ten days or a fortnight in time generally are much better at gathering time. Another objection: The husker in many Kansas corn fields finds the ears above his convenient reach, and the fodder-cutter finds it burdensome to handle these heavy we find it consedient freq these facts seed from Nebraska or Iowa. This foreign seed, properly selected, has been generally satisfactory. I cannot give names of varieties that i cannot most profitable, as it is the practice of corn-growers generally to select from neighbors or through farmers of other neighborhoods, or from other counties or States, the variety of seed countie prefer without much regard to names Selection of seed corn regard to names has often been.attended with diap pointment.

The preparation of the ground for planting is an important factor in se curing a profitable crop, and a differ that practiced in be pursued here to that practiced in other States where winter and early spring rains fall in greater abundance. We find fall or early winter plowing at as great a
depth as practicable the better way I am strongly in favor of following the I am strongly in favor of following the
stirring plow (which should be fourstirring plow (which should be four-
teen or sixteen inches wide, run at a depth of five or six inches, or deeper if your team will do $\mathrm{it}_{\mathrm{l}}$ ) with a Perine subsoiler or properly subsoil stirrer. This implement consists of a very
strong frame and bull-tongue with a strong frame and bull-tongue with a
long, sloping point not over three inches wide, and may be run at a depth of seven to fifteen inches in the bottom of the other furrow. The depth this subsoiler may be run will depend on the condition and quality of soil and the strength of four of your best horses or six lighter ones. Dry weather should not deter you from using the subsoil stirrer. Last fall when very
dry I used this plow after a fourteeninch plow that had run some five inches in plowing a thirty-six acre field of compact, dry subsoil. Being extremely dry the subsoil was broken up in large lumps and completely filled the furrow on a level with the unplowed land. The next round of the large plow raised this level some five or six inches; in consequence my thirty-sixacre field after plowing had five or six inches greater altitude than before. The fine surface soil being turned upside down on this lumpy, loose subsoil would sift through and would certainly put it in condition to retain a much
greater amount of water than it would have done without this deep stirring.
If the farmer be inclined to use a liste both for planting and fall plowing, thi subsoiler may as profitably be run be hind the lister. This fall preparation of your corn fields will insure you a preservation of the greatest amount of moisture from the winter snows and showers and a finely-pulverized surface as a seed-bed and moisture-preserver for the early spring and summer monthe.
With this preparation of soil if rainfall has been abundant do not plant before the 20th of April to the 10th of May (a little earlier will do if dry) that you may have a quick growth and even stand of three stalks to the hill if checked; if listed, one stalk every twelve or sixteen inches, as to strength and nature of the soil. In checked corn better two stalks than four and better one than five.
The preparation of your ground before planting is of greater consideration than after cultivation, but every step is important. If the season is dry you should harrow or drag with a clod-breaker before planting whether you had fall or spring-plowed. If listed pulverize the surface of both ridges and furrows before planting. If, on the other hand, there is a fair or excessive amount of moisture this dragging or harrowing should be omitted. If dry weather continues after planting and your soil was well prepared for seed there should be no hurry about cultivating. If, on the other hand, you have had heavy rains during the spring, waste no time until you have
adopted for the purpose of retaining the moisture for growing erops. If we look over the methods of the last fifteen or eighteen years of farm ing in our county, we find that the methods, generally, if not univergally, have been about as follows. Beginning with corn, which is the grest staple he ground was listed without previous plowing. Where fall plowing was don was always quite shallow so done to interfere with the listing in as no owing spring. When osts were they were sown in the corn stalks, without previous plowing, simply cul ivated and harrowed. It has been cul prevailing opinion that deep plowing was not the proper thing to dowing crop of wheat, so that in the to for a ore mentioned shallow plowing be plowing hes been the plule or no county. I do not claim in our method has been successful.
But the question under discussion is how to retain moisture in the soil for he use of growing crops. 'I assert tha could be adopted for the worst that First, because in times of purpose the surface or loose soil, being rain shallow, is very the subsoil, being very to saturation not permit the runs off, carrying with it vest amte; it of soil and fertility. I vast amounts that the bottom of the furrow at the usual depth of plowing is exrow at the hard and complowing is exceedingly ion, by the plowshare same depth year after cutting to the ing is done, yuar after year when plowplastering of a building. In order to

david bradley mpg. co.'s plant at bradley city, ill.
plowed and pulverized the surface after $\mid$ harden and smooth the surface the your land is clean or otherwise, new workman repeatedly goes over the suror old, do not fail to give it four or five $\quad$ in the with the trowel before he leaves it lowings, nol to give it four five nches. Get close exceed two to four o remove or close enough to the corn guard against disturbing the corn roots with the cultivator, especially at the later plowings-more especially if the weather is dry
The painstaking farmer in the corn belt should expect forty to sixty bush els to the acre with a good season. phenomenal yield and is bushels is cured from the most favored fields if we apply the inexorable steelyard and tapeline. If the application of these never-deceptive implements could be used to determine our annual yields by dates our general averages would e, Jefferson Co., Kas., in Breeder's Gazette.

How Shall We Retain Moisture in Our Soil.

## Paper read before the B sttute, by 8. Detwiler.

The past year's drought has directed the mind of every observent farmer to the matter of retaining moisture in the me for a committee saw fit to call on is a subject that searcely interests the farmers of Brown county in ordinary seasons, as the usual amount ordinary is ordinarily sufficient to produce abundant crops.
It is my opinion that our past meth probably the very worst that could is
in the perfect condition required to finish the wall. It seems to me that this is not the ideal condition of subsoil for retaining moisture or for growing crops, but just the opposite of what not coired by growing crops. I am of the institute, the scientific neme the components of the soil-the ch st and the geologist must o them but confine myself entirely to the mechanical or physical condition of it After thorough and deep plowing, so so let the rains go down deep, I hav in shape of clover or barnyard wanure is another excellent retainer of moist ure in the soil, provided the soil his oeen deeply stirred so as to permit the rains to penetrate when they do fall. A bit of experience in deep plowing in the fall of 1893: August, I plowed than it had ever been plowed deeper sowed to wheat in latter part of September following; harvested forty-two from six to ten bushels above the being age of surrounding fields sown aver same time. The last fall sown at the same time. The last fall I procured a sixty acres of land 1 used on about tend to plant to corn and part to oats. The future alone can determine the sufficient the work, but if we have a sufficient amount of moisture to saturate this loose subsoil I expect good It
It has been advocated at these instito

of soil. This theory I do not believe, but, on the contrary, I firmly believe that there is a rich store-house of plant food below, that only needs to be unlocked by the subsoiler and then the soll gradually deepened with the stirring plow and made available by the penetrating rains, and by so doing wasting of both soil and fertility by the constant washing of our fields during heavy rains.
Now, brother farmers, in addition, I will say that, as the larger part of my a full and free discussion of the mattor. If my premises are at fault, the reaso ings are also erroneous and the whole matter of retaining soil moisture will have to be sought in some other source. I forgot to mention at the proper place in this paper that one of the most effectual methods of retaining the moisture in the soil for the use of plants is perfect fineness of the surface and frequent shallow cultivation, thus making a mulch of fine soil on the surace, never allowing a crust to form fter a rain, nor allowing weeds to use the moisture that is needed by the rowing crops.
thod aware that whenever some method or change is suggested in farmit is immediately condemned by the verege farmer, but, on the contrary When a method is suggested by which man and team can cover a few more acres it is immediately taken as a sure method of getting rich. Our motto should be to get the largest possible eturn from the fewest acres and leave he best possible condition for future crops. This method outlined will solve he other problem, what to do with the urplus horses. Put them to work on your farms, plow deep, cultivate fre uently and shallow, thus retain the moisture for your crops, kill the weeds and utilize the horses.

No Ohange to New York and Boston The through service offered the traveling St. L. railroad) is unsurpassed. Th perfect passenger service of this road, with Shore and Fitchburg roads, recommends itself to the traveling public. Wagner Palace cars and dining car daily. on through drains to New York and Boston. For ad agent or address J. Y. Calahan

## Irrigation.

## IRRIGATION THE ONLY WAY OUT.

 Read by P. I. Lanca.Farmers' Institute.
Irrigation is our quickest way out, our surest way out, our only way out. My friends, we are late listening to reason. We have wast phe years of our lives (what would have those eight years back to devote to irrigation!) We have wasted onefourth of our manhood chasing an ignis fatuus-a chimera-living under the delusion that Sherman county was not in arid America; that corn and wheat and oats and barley would refurn us from year to year bountiful harveats of golden grain; that all we needed was land, more land-a half section was but a garden patch-640 acres were barely sufficient for an ordinary wheat field. Could we but have fore seen the delinquent tax list for 1895 we would have taken the statemant of the Frisbees, the Bassetts, the Winters, and of the other silver-tongued locators in regard to this new El Dorado, with a little more margin; have been just a trifle more conservative in putting out all our nest eggs where God's sunlight always shines.
Judge Gregory has somewhere said, in one of his irrigation articles, that "that singular phenomenon which once happened in western Nebraska, sometimes occurs in our western counties. It occasionally rains." At any rate it used to rain before the locators left. have beguu to believe that those same locators possessed the magic art of rain-making, and that Montgomery Jewell, et al., who

Salled balloons and spouted gas,
And fred bombs tillit came to pass
That all the flelds were bare of grass,
That all the felds wer bare or pass
And nature blew for quarter,
are but sorry imitators. Yet many of us were so influenced by this bomb firing and gas-spouting as to put faith in their ability to cinch the drought. So we planted not only our stock of venture.

But then we began to curse the dry.
Watening the olouss and wondering why and I'll tell you, confidentially, we have missed them for some time, both the raindrops and the raindroppers.
How many widows and orphans in the East regret that it ever did rain in western Kansas. This it was that caused them to loan their money on our farms, and instead of them receivthey have to send quarterly consignments of aid to enable sufficient voters to live in our counties to maintain our county organizations so we can elect officers to post them of the amounts $o$ delinquent taxes against their securi ties.

So, gentlemen, you ought to be satisfied by this time that waiting fon th pattering raindrops w
ou to pay your dents.
Then listen to what can be done i we make the raindrops patter-if we irrigate.
that Sherman county has the under flow, that this can be economically lifted to the surface. You surely are already convinced of these things, for they have been made as plain to the intelligent mind as "way to parish church." I have been asked to tel you of some of the benefits we may expect to derive from bringing this un derflow to the surface in Sherma county
But for the fact that I am requested to entertain you for twenty minutes, would simply say (and would I not say enough?) it will enable you to suppor your families, enable you to pay your debts. Ah! what a thing "to be de voutly wished for, "or is not this suc cess? Is not this more than you have done heretofore? But irrigation will do even more than this. It will change your bare, unsightly soddies into decent shaded homes, into fit dwellings for intelligent farmers; will permit you to live, not barely exist; will make you dependent upon your exertions alone, and independent of droughts and public aid.
My friends, I am sure I am wel aware of the fact that but for the char-
ity of others many of you would have
been unable to have lived through the winter, but I am also as fully aware of this fact: that if western be a permanent charity farm, I, as abandoning my attempt to make a home here. You have been depending for a livelihood on the seasons, and now this is your condition after eight years of hard, honest toil. You didn't know what work was or what privaKansas. And the wages for all this la-bor-the result of all these years of the best of your manhood-what are they? You and your families are dependent upon charity for your victuals and clothing One of my first memories of western. Kane of my frid midus of its urgent necessities-people freezing and stry The pas some yag ago. Is it not worse this year than ago. Is it in eharitably-disposed friends becoming tired of supporting you out here-that they of supporting you out here-tha and live on their county poor farms, where you won't cost them so much and where they can look after you better?

What is the trouble? Is it with us or with Sherman county? Farmers, it is with us. We have not yet learned the peculiar climatic conditions that obtain in arid America. We have farmed as if we were yet in Illinois or Missouri-risk all-put out our last farthing in wheat and corn. Extensive farming it is called. Expensive and crazy farming I call it. Oh, yes, sow your 200 or 400 acres in wheat every evring and
Let me impress on you, friends, it is high time we were learning this new farming-this intense farming-for we may not be a

I don't mean to suggest that we can never raise corn or wheat here, but do say pick your seasons. Don't go in for "extensive farming" unless you have the chances of a good season in your favor. Think of the thousands of acres of grain we sowed in the dust during the past two years-how foolish! There was no show at all for a harvest.
Such are the years when irrigation will prove its value.
I am no wild-brained enthusiastclaiming that irrigation will make George Gould envy us our Sherman tical experms, but I do know from prac aged irrigation plant will enable us to aged irrigation plant will enable us to of land. wisely watered and cropped will be of more value to each family than the cost of your living expenses has been during the whole year of 1894. You may not be able to make you garden support you the first year ing water, planting seed and keeping yourselves away from town.every other day. For I can tell you that to success fully irrigate you must get a good You can't do as yoump on yourselves You can't do as you have been doingwork two weeks in March and spen Hess' hardware store, at first bragging bout how much wheat you are going bout how much you would mave had

Well, you must forget all about ifs when you irrigate. "Shall" and "will" are the winning words. And if there are no ifs in your labor, there will be 0 ifs in the harvest.
While I am writing this, the boys come in to tell me it is raining. Yes, raining hard; so I must put down my pen and feel a genuine, heaven-given raindrop. And I did go out, and thought surely this could not be arid America, for there were plenty of good, wet raindrops-not the dry, shriveled product of the rain-makers-but those of God's own kind-full of life and fresh ness. And then I thought how many millions of dollars had been spent trust ing to just such clouds-reasoning once rain and always rain. Why, had it rained in February when I first came to Sherman county, Frisbee would have
gotten me to have built on the highest snow-capped peak of the Smoky.

WHY DONT Yoo Porchass Parbanrs standard Scaik?
With Our Patent Beam, Weighing in Both Pounds and Bushels, without

## IRRIGATION SUPPLIES.



FAIRBANKS, MORSE \& CO., unionave. Kansas City, Mo.
'don't you see the seasons are changing. Never rained here in February since the ark was launched. Why sir, you will see the time before your
children attain their majorities, when hildren attain their majorities, when you will ship your wheat and corn down he navigable Smoky on "whale-backs' un by natural gas
I don't mean to dissuade you from risking the season this spring. I my elf beligve we will raise a crop; but I do say don't put in as much as you have heretofore done. What you do sow sow it well. Have some time for fixing up your irrigation pond and mill; for mark my words, although I expec Sherman county to produce this year a fifteen bushel an acre wheat crop, yet along about July and August you will wish for some of your neighbors' irri gated vegetables.
If we each irrigated but one acre this year, you would find the results to es gratifying that next year twice hat in five would be mand a staple value; that we, with our orchards, our fish, our fruits and egetables would be independent and appy.
So, in conclusion, let me impress on ou that irrigation is our only salvation our only hope, our only chance o weathering it out in arid America, an better than the good will of our aid friends.

Experiments With Irrigation in Utah. The Utah Experiment Station has Wsued Bulletin No. 38, on "Seepage During the summer of 1894 Rers. Deasurements were made of the manal and tributaries of Ogden and Webe ivers to determine, if possible, wheth water could be diverted and applied to the surface of cultivated areas in the upper valleys without injury to the priority users in the lower valleys The preliminary investigations, which extended through July and August-a period much too brief in which to base accurate results-seemed to demon strate the
statements:

1. That the diversion of water from i stream and its application to the so in the upper valleys in the early part f the irrigation season when wate abundant, increases the available supply to the irrigators of the lowe 2 . In most latter part of the season. 2. In most cases a time is reached, usually about midsummer, when no portion of the water diverted from the lower irrigators in time to benefit them. Such diversion and use damage the rrigators of the lower valleys.
2. In some instances the outflow from the upper valleys during July and August was much greater than the in
flow, although a large part of the inflow ras used for irrigation purposes.
3. The behavior of irrigation waters mined only after a series of carefully-
made measurements extending over a eriod of years, and that much ill-feel ng, trouble, and litigation would voided if the St Bucessary data.
Bulletin 39 treats of "Farm and Or hard Irrigation." It reports results of a numker of irrigation experiments, oost of them covering a period of ilve ears. The first experiment, which is iscussed by A. A. Muls, is the amount of water to use for different crops, an summarized as follow
4. On clay soil the maximum yield of both wheat and straw was obtained by saturating the soil, approximately, two feet deep at each irrigation, or cover-
ing the ground with 26.82 inches of ing the ground with 26.82 inches of water during the season.
5. On this soil there was a decrease of crop where either a more or a less amount of water was used.
6. This maximum yield was secured by the use of 26.82 acre inches, which is equivalent to a cubic foot per second for 1 wenty-seven hours, nearly
7. Though the water that drained rom the soil through excessive irrigation was richer in fertilizing material than when applied, the total amount of this material added is more than that extracted.
. On clay soil containing more sand the water increased up to 40 inches, phile the maximum yield of straw was produced with 16 inches of water.
. On clay soil containing little sand timothy gave mixed results, though where the maximum amount of water 41.3 inches) was used the yield was the greatest.
8. On clay soil containing more sand the first crop of clover increased stead$11 y$ and rapidly from the use of 4.2 application of 5.2 inches more of water decreased the crop nearly one-half.
These bulletins are now in press and may be obtained on application to the office of the Experiment Station, Lo gan, Utah.

In the letter of Senator Boyd, of Greeley, Colo., to A. H. Cox, of Quincy, Kas., on "Potatoes by Irrigation," pub lished in the FARMER of last week, the types made him say: "A pumping per maving a capacity of soblon gallo etc. It should have read " 850 gallons per minute," etc.
d have re
etc.
Interesting circulars sent to farmers Send name to Bureau of Immigration, Spo kane, Wash.
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## DRAIN TILE

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IRRIGATION.

0<br>NE CENT PER HOUR IS CHEAP.<br><br>That Man wrep oin放

"My dear man," he would have said,

United States Irrigation Investigation. The following general statements covering most of the questions usually asked concerning the character and resupply of the investigation, and relion of water supply, irrigation, and related subjects the United States Geological Survey:
"In the prosecution of the field work of this survey and of its predecessorsthe exploration and mapping of great areas of the public lands-the broader questions of irrigation and of possible reclamation of portions of the arid region were of necessity constantly in mind. The possibilities of this region were brought to the attention of the public n 1878 by Major J. W. Powell's 'Re port on the Lands of the Arid
Region of the United States, which was an outgrowth of the earlier which was an outgrowth of the earlier
surveys. In 1887 the Director of surveys. In 1887 the Director of the Geological Survey was called upon by
Congress to consider the questions of Congress to consider the questions of
irrigation, and by joint resolution of March 20, 1888 (Statutes at Large, Vol $25, p .618$ ), he is authorized and directed storage, the volume of streams, and storage, the volu
similar questions.
"By act of October 2, 1888 (Statutes at Large, Vol. 25, p. 526), the Irrigation Survey was created, and by act of March 1, 1889 (Statutes at Large, Vol. 25, $p$.
960 ), it was extended; but its operations 960 ), it was extended; but its operations
were abruptly terminated by discontinwere abruptly terminated by discontin-
uance of appropriations August 30,1890 uance of appropriations August 30, 1890 .
The act of this date (Statutes at Large. Vol. 26, p. 391), repeals the law affecting withdrawals of public lands, but leaves on the statute books authorwhich the arid regions of the United States can be redeemed by irrigation and for field work.
"Congress by various enactments has recognized and distinguished two classes of investigations pertaining to irrigation. On the one hand, it has placed under the Department of Agriculture the consideration of questions of immediate practical importance to the individual farmer, such as methods of cultivating the soil by irrigation, these being nearly related to the work of the botanist, the soil physicist, and other experts. On the other hand, those subjects relating to water resources and to the public lands-subjects which are of interest to the citizens as a whole and which necessitate broad surveys, measurements and field investigations -have naturally been joined to the partment of the Interior. By this classification the examination of the resources of the country, whether in minerals, in solids or in waters, the administration of the public lands
"Systematic measurements of streams of the arid region and a study of water resources were begun under the Irriga been continued as incidental to topographic surveys. By the act of August 18,1894 (Digest of Appropriations for was made for this apecific appropriation further appropriation therefor was made by the act approved March 2, 1895, the item reading as follows: 'For gauging the streams and determining the water supply of the United States, in cluding investigations of underground currents and artesian
and semi-arid sections.
"The reports of this survey relating to irrigation have been published as parts of the annual report of the Di-
rector. The first annual report of the rector. The first annual report of the
Irrigation Survey forms part 2 of the Tenth Annual Report of the United States Geological Survey, 1888-89. I consists of 123 pages and is devoted
mainly to preliminary plans and a state ment of progress. The second repor of the Irrigation Survey forms part
of the Eleventh Annual Report of the United States Geological Survey 1880-90. It contains 393 pages, 30 plates and 4 figures, and describes the river measurements, the surveys for canals
and reservoirs, and the general topoand reservoirs, and the general topo
graphic mapping, giving at the end a list of irrigation literature. The third annual report of the Irrigation Survey forms part 2 of the Twelfth Annual ReSurvey, 1890-91. It contains 578 pages,

93 plates and 190 figures, and describes he reservoir sites selected, the hydrocludes of the arid regions, and it inIndia. The fourth report on the subject forms part 3 of the Thirteenth Annual Report of the United States Geological Survev, 1891-92. This containg 486 pages, 77 plates and 119 figures, and onsists of four papers: 'Water Supply Engineering, 'Engineering Results of the Irrigation Survey' and 'Topographic Maps and Reservoir Sites in Arkansas River Basin, Colorado.'
The above-named volumes comprise the series devoted exclusively to irrigation. The demand for these has ofen so great that the supply of many can be now obtained, if at all, only through members ot Congress, or by purchase.
"The Fourteenth Annual Ryport of onis survey, 1892-93, contains a paper by Mr. F. H. Newell. The data upo water supply obtained after the publiwater supply obtained altor the publiin the Fifteenth Annual Report, 1892-93, but will probably appear with other material in the Sixteenth. Mention may also be made here of the volume of the Eleventh Census, 'Agriculture by Irrigation,' prepared also by Mr. Newell, in the preparation of which the results of work by the sur vey have been used.
The work now in progress, under the appropriation above quoted, convarious parts of the then of streams in various parts of the United states, esecially in the of artesian condilions, mainly in the Dakotas, Nebraska, Kansas and Texas, nd the general stuay of water supply, whether for power, irrigation or omestho use, cogether with the depraphic or geologic conditions. As the mount of money available for such work is exceedingly small in compar son with the vast area of the country nd the widespread demand for results, oth South and West, co-operation is ought with all individuals and officers able in any way to assist. By thi neans, economy, efflciency and unity of action are secured."

## Irrigation From Wells,

Editor Kansas Farmer:-In the armer of the 10th inst., a column tents of a new pamphlet by Secretary Coburn. I wish to call further attention to part III. of that pamphlet which is entitled, "Notes on Some Kan Meridisn West of the Sixth Principa In the introduction to ther Supply."
is stated that the wells are about 2:0 in number and that they are from sixtythree counties. It is further said that alf of them are railway wells. The principal lesson to be learned from the volume of water to be obtained by pumping. Is that volume enough for pumping. Is that volume enough for as a whole, is to say that it is notes, 130 or 140 privay that it is. Of the 130 or 140 private wells mentioned thirty-two are used for irrigating from quarter of an acre to seven or eigh in the Those who have done a little n the past are preparing to do more These resulte seem to verify a state ment of the writer, made several year ago, that the water of wells on the high prairie may be used to irrigate from ions of the western most quarter se ions of the western counties. I would ke to emphasize this as being a mount that insures a living in the ryest years to every man who dili ently uses his opportunities. In we years he can make a profit from the
ther part of his farm. By subsoiling other part of his farm. By subsoiling he can be sure of some crops on larger vear.
In the notes referred to it is seen that some wells have had their
flow measured by observing how much he pump yields in a good wind for a hour or a day. In others there has een no measurement taken. In some it is vaguely stated as so many barrels, sometimes the barrel being the stand ard barrel and in other cases it is a


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cient and cheapest irrigation pumping machinery, write for catalogue of CenBoilers, Gasoline Ex Pumps, Engines, IRVIN VAN WIE,
test.,


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coal oil barrel that is meant. In some an idea of the quantity of water is sug gested by stating that twenty-five, fifuy or 200 head of stock have been watered from the well. I suppose ten gallons would he considsed a steer or a cow would be considered a minimum sup ply. Twenty-five gallons would probaby not be considered too much in ho weafien. 1 want to suggest that water ufficient for an ox would be sufficient for a tree. An eminent orchardist in this State has often said that a healthy apple tree 5 years old is worth as much a cow of the same age. There are ther trees that in western Kansas would probably be more valuable than apple trees. The point I would make is, that an orchard of twenty trees wil be worth as much as twenty head o head, and they will want much as forty grass land and no feeding in the winter They can be no feeding in the winter cattle can. I don't say "sell your cat tle and plant orchards." I say plan enough of trees to always have a surplus of fruit, and give them as much water as you would give to the same number of cattle. Subsoil the orchard, so that water will go down low enough, and make some holes near each tree to be filled with loose earth or gravel, so that you can always supply water directly to the roots. By subsoiling and winter irrigation you can gradually extend the area that will be certainly productive every year, and so have a constantly increasing assured prosperity. The notes were collected by Secretary Coburn and published by him in the belief, as is stated in the introducton, that the information therein conthe Sill be of service in the part o here to suanch it applies. 1 whish service may accrue and further to urge all readers to send 6 cents to Topeka and get the pamphlet.

## Junction City, Kas.

Robert Hay.

One Acre With One Gallon of Gasoline. Syracuse, Kas., April 7, 1895. Mr. E. B. Co our plant, will say, we have in as to in it. The plant consists of acess pump and a Weber casoline Menge The engine is a No. 4, nine horse-power, and does the work with ease and we heartily recommend it to any and all who want a power. It will do all it is recommended to do and we believe more. We are lifting water seven fee in New Orleang. We are throwing two hundred thousand gallons per hour $(200,000)$. Our engine only takes about one gallon of gasoline per hour We can irrigate one acre per hour with our plant. We can only say it is a both engine and pump to any and all.

Respectfully your
h. C. Price \& Bro.

Kansas Birds.
Our friends in feathers ought to be very of animate life. What the friends and lovers or woman has not seen and cometo or mane the birds that about their homes fill the air
with music and the beauty of glancing with music and the beauty of glancing
wings? How many of our readers would be glad to know the names and habits of Prof. N. S. Goss, State Ornithologist, that
tells us all about "The Birds of Kanass," Not only about the birds themselves, bu homes, habits, their nests, their eggs, their to mankind. From this delightful volume we may learn what a wonderful seryice th birds render to agriculture, to pomolog and to gardening. Between three and fou hundred kinds of birds in Kansas in uncounted numbers stand between our people and the almost total annihilation of all thei crops, by the warfare they continuall gophers, lizards, frogs, snase pers, moths, beetles and the innumerabl swarms of insects and grubs that proy uno grains, fruits, vegetables and flowers. Kil oif suddenly all these winged ministers of man and the human race would starve The foes of man would sack the citadel of Prof. Goss was and garden.
Pror. Goss was a most enthusiastic love tion at the Sta Goss ornithological colle pride of every true Kansan, and just be fore his death he completed his life wor in a splendid book of several hundred page on "The Birds of Kansas.' That boo ought to be in thousands of private libra ries in the State and in that of every city town, village and school district, from Col stance, to know a bird is to know a friend Very few of them are enemies. Even th hawks that, driven by hunger, now and work in ridding We can well afford to forgive them a littl mischief now and then in view of the splen did service they render, just as one may forgive his favorite Jersey cow for occa sionally wandering into the garden. The by Crane \& Co., of Topeka, who are with out question the leading publishing hous in Kansas. In them the birds have friend, for they nave made this master bird book "as fine as a feather."

## No Ohange to Ohicago

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Wheat has been the lowest-priced farm product during the past year, in spite of the tarmer's good friends; the wheat gamblers "benefiting th prices" for the purpose of

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Practical ideas worked out for patrns and $m$ the TOPEKA FOUNDRY CO.,

## The fome Circle.

$\qquad$
The matter for the Howr cricolis in elooted


SAILING AWAY. Salling away with the wind aboam, Sailin the wida, wide epea befor To the oort of the golden hamore;
1dio hands on the rudder bands, Hope in the sanniee farr,
And haerte
Af
Love. in the dawn of that far-off time,
Did you guess of the weary way? Deareet. when ile ereemed a sum mer rhyme, Conald we tell where we went astrayl
ilent tears through the coming years,


Sailing ashore with a waning wind
On the liass of a dreaming tide. Moving the dark of the desp bebind
For the light of the other For the light or the other ide; Ah! to the mar in foam

the picture in my heart. In each man's sonl there livee a dream
Lit by a woman's eyea, Whose Elance if ilike hee te tender gleam It inat a thrille the evesing thikioe.

In each man's heart there floats a voice That voice of her, him spiritit's choioe, The dass may haston like the wind, Tho dass may hastan like the wind,
Or llag with bulon feet.
someart thall find Some dy nis wondering heart shall find
The tace he loogs to mete.
-Neio York Weekly.

## ARTISTIC FIREBOARD.

How to Effect a Desirable Tran tion of an Old Fireplace
Grates are quite fashionable, and most modern houses are furnished with one or two in addition to the usual provision for stoves. But in some houses, es pecially in old farmhouses built twentyfive or thirty years ago, the fireplace was made for use, with little regard for beauty. Now, these have become an eyesore to people who have grown up wsually the firsting once used them. Usually the first step toward a remedy but this is the little which it hides. If covered with that the paper is likely to crack along the seams.
A friend seems to have solved the problem, however, in a fairly satisfacwere extremely plaintel and the fireboard was of bare yellow pine boards, with which she was never pleased. At last, an idea struck her; she would turn the family artist, and nearly every family has one, to some account. The board

$\triangle N$ ARTISTIC FIREBOARD
was covered tightly with double-width, unbleached muslin, and then the cloth the painted all When this was dry, was lead, and made ready to turn over to the artist, who, by the way, is generally enough of an artisan to do the entire work.
On this board the artist painted a design representing bent-iron work over run with wistar as, the metal work done in bronze or brown (see cut). In the center is a bracket supporting a lovelv blue porcelain vase, in which graws a clump of iris. Of course the fowers should be painted in their usual colors, but the design may be changed er, flowers and vase should always be is harmony with each other, yhit it
especially the case here, as the blue vase, purple iris and purplish wistaria combine to make a beautiful, yet modThe frebord when finise coupla with freboard when fuinhed, coupled with a pretty lambrequin, brings about quite a dosir to of all.of all.-Rural New Yorker.

## HOW TO KEEP YOUNG.

The Dally Nap a Useful Aid in the Preservation of Beauty.
American women might learn an advantageous lesson of their French sis it is no receipt for cosmetics that they it is no receipt for cosmetics that they would acquire. First of all, French
dames do not worry, or if they do they conceal the fact admirably. They are apparently on the crest of the wave of apparenty on the crest of the wave of
good fortune perpetually. Next, and almost equally important, they decline to hurry. They take life moderately, perform their duties without haste and linger over their pleasures. And in these two simple rules lies a mine of wealth for her who is wise enough to appropriate it.
The daily nap is a valuable auxiliary to preserving youth. And, speaking of rest, Mrs. Alma Calder Johnson deplores the fact that the little flap of flesh once wont to cover our ear orifices at will is
no longer in working order. "It was no longer in working order. "It was at one time, you know," she says, "just
like our eyelids, and could thus shut like our eyelids, and could thus shut out sound as readily as the former could
shut out sight. Now, however, we shut out sight. Now, however, we must resort to artificial means to rest
our tired tympanums. I often think our tired tympanums. It often be to be able to stop up our ears' whenever we wanted. There is nothing that rests me like closing my eyes, and I make a practice of always doing so in street
cars and like places. Thus I gain odd minutes of repose, with comparatively little expenditure of time."-Philadelphia Times.

## SOME NOVEL NAPERY.

## Banquets Which Are spread Upon a

 table Cloth of Gold.An effective lunch cloth seen recently was of the thickest, smoothest, finest damask of a pure gold color. It was dappled with a leafy design, also in the gold, the pattern being perceived only by the wearing of the fabric. No other color was permitted upon the table, the service being or dead white porcelain, ley. the fows were lilies of the valered with priceless samite that Tenny son talks so much about on a sheet from the Field of the Cloth of Gold.
Unless a hostess can indulge in such rare magnificence, however, a plain white luncheon cloth is always in the best taste. Just now it is the fad to
have these hemstitched and bor dered with drawn-work, though not too elaborately, as anything pro-
nounced, unless it be of the most elegant description, is out of place upon the table. A fairly good quality of damask, 21/2 yards long and with a neat little drawn-work border, may be purchased for $\$ 22.25$. For those who prefer colored luncheon cloths there are extremely attractive ones in dull blue, old rose and yellow, and these have cheapness as well as durability to rec$\$ 13$ in the two and a half and three yard lengths. The latest and most popular design in table innen of all sorts
is the scroll pattern.-N. Y. World.

The French Woman's Way
Here lies one of the great secrets of the French woman's success in mat ters of dress. She studies her charac teristics and peculiarities, and then ingly If a style that is in vogue will not adapt itself to the outlines of your figure, then put it to one side and choose instead something less and that will add to your charms instead of detracting from them. If a color that is the rage does not suit your complexion, or the color of your hair or eyes, discard it in favor of a shade less new that will enhance your good points intead of clashing with your natural coloring. If the latest style of dressing the hair does not harmonize with the thing to do with it.
"The Farmer's Ready Reference, Hand-Book of Diseases of Horses and Ca C. Orr, V. S., Manhattan, Kas.

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

## Royal Baking ABSOLUTELY PURE

## OUTSIDE MILK CLOSET.

## Wing Thing But a Great C

Where a person must depend upon a milkman for his milk, the outside closet that is represented in the sketch may be taken advantage of, particularly if one is building a new house or remodeling an old one. Where the milk is left early in the morning upon the doorstep or piazza, it is at the mercy of wind and weather, and of prowling ca's and dogs, even when a closed vessel is used for the milk. Where such a milk closet cannot be made, it might be found of advantage to make use of a


OUTSIDE MLIK CLOSET.
small box beside the door, having hinged cover. One would certainly en joy his milk-even if it were somewha blue-much better if there were no suspicions accompanying it concerning Farmer.

How to Keep Ants Away.
In a recent issue of the Old Homestead, we read this about keeping ants away, and as it may help some bee reeper who is troubled by ants, w coat of balsam Peru around near the botton of table or kitchen safe legsjust a narrow band will do-and renew the balsam every two or three weeks. This will keep ants away from tables, kitchen safes, etc., and what they hold or contain, provided there is no other ant-way than up the legs. One drop of balsam Peru spread around the uppe part of a sirup bottle will keep th ants away for months. Boil one ounc of balsam Peru in one gallon of rain water for half an hour, and sponge thi water, while hot, over wooden floor and walls, and it will keep ants away for a long time.

There is more Catarrh in this section of the country than all other diseases put together,
and antil tho last few years was supposed to be ncurable. For a great many years doctors pronounced it a local disease, and prescribed local
remedies, and by constantly failing to cure with remedies, and $y$ constantly failing to cure with
local treatment, pronounced it incurable. Soldisease, and, therefore, requires constitutional reatment. Hall's Catarch Core, manufactured by F. J. Cheney \& Co., Toledo, Ohio, is the only
consititutional cure on the market. It is taken ful. It acts directly on the blood and macous surfaces of the system. They offer one handred
dollars for any case it fails to cure Send for ollars for any case it fails to cure. Send for F. J. CHENEY \& CO

## To the Traveling Public

Before purchasing tickets to points east Ohicago, first ascertain the rate to that point over the Nickel Plate road. City
ticket office, 199 Clark street, Chicago, Ill.

Swallow bows" are now taking the place of butterfly bows, and are made in this way: Take a stiff glace ribbon wo or three inches wide and cut one end with long, sharp points like swallow's tail. Place a loop below which represents the thickness of the bird's body, and then two side ends cu in diagonal points for the wings. With rosette as a finish this makes a very frective bow. A charming hat trimme witho of these swall with fluted brim and full red Jun rose in each flute.

## Temperature of Curling Tongs

A great deal of hair is rumed by curl ing tongs being too hot. The tongs do ittle harm at a lower temperature, by taking a little more time the curls are just as good.

The Latest Handkerchiefs.
New hankerchiefs have scalloped and daintily embroidered borders and it is the correct thing to sew narrow ace around the to give a ruffled effect.

Homes for the Homeless.
The opening of two Indian reservations in northeastern Utah to settlers opens up over three and one-half million acres of fine
agricultural and stock-raising land for homeagricultural and stock-raising land for hors. The Uintah and Uncompahgre reserva ions are reached by the only direot route Park City. E. L. Lomax, G. P. \& T. A U. P. system, Omaha, Neb.

Ely's Cream Balm has completely cured me of catarrh when everything
else failed. Many ac quaintances have used with excellent remilts. Alfred W. Stevens,Cald

## CATARRH

## GLY'S CREAM BALM opens and olaunses

 the Nasal Passages, Allays Pain and Inflamma-tion, Healile the Sores, rotects the Membrane
from colds, Restores the Senses of Taste and mmell. The Balm is quickly a
relief at once.

A particle is applied into each nostril and ls agre ELY BROTHER8, 66 Warren Street, New York. THOS. B. BHILLINGLAW, Real Estate and Rental





ST. JACOBS OIL is the Perfect CURE for NEURALGIA
, man

## Che Houng fofks.

TWENTY-FOUR PRESIDENTS. Washington frrot of the Presidents stands'


Fifth on the record is plain James. Monroe
 And Harrison, ninth, known as Tippecal
 And pmale iranklin Pierce is fout teenth in the

Fifteenth is Buchanan, and following him The great name of Lincoln makoesillothers dim
Nexx to Jobnobon conee Grant, with the laurel
and baye, And and nayter Grant then comes Rutherford Next Garffeld, then Arthur, then Cleveland the

to the "funny fellows. This world has too mnch grief ard pain,
Too many tears by halt

Then let the croakers pase along;

Trae, serlous moods must have their place, But they toil best whor now and then Send forth the merry laugh
And so, ainoe ghadowa form of life
Ourf fervent blessings let na giv Us langh.

PUTTING UP PRESERVES.

## How the Busy Littio Ant $\begin{gathered}\text { Er } \\ \text { Her Winter Food }\end{gathered}$

No matter how orderly and sysserves are to be made, great excitement prevails in the kitchen. There is a scour ing of brasskettles, a washing of bowls, and all hands are set to work peeling the fruit, or taking out the stones-if it has stones-with a quill, weighing, and stirring, and skimming the pot, and finally dipping the steaming luscious fruit out tenderly, placing it in the jar, labeling these and carrying them into a dark cupboard.
The tiny, insignificant ant, to whom Solomon referred us to learn wisdom, makes no such ado over her winter stores.
She is very much cleverer than a human being, for she simply walks quietly into the granary, touches the great heaps of seeds and grains, that the diligent workers have put away, with her quivering antennae, and the deed is accomplished. What this queer little creature has done is this: she has put a drop of formic acid, as it is called, upon each of the grains, which arrests he process of germination, and conse quently the food in these underground pantries may keep for years withou prouting. into its hone dropping a ting bit o his poison into the honeycomb from the end of its sting.
The famous naturalist Moggridge repeatedly observed that when the ants were prevented from reaching their granaries the seeds began to sprout, and that this also happened when they abandoned their nests. It was inferred that these insects possessed the means of suspending the action without dethe principle of life hidden in grain and and now it has been proved that this struage power lies in the formic acid just mentioned. A German scientist went so far as to suggest in 1877 the use of it for preserving fruit for human households.
One naturalist relates that a kind of Indian ant collects large stores of grass and seeds, and eiter a severe storm brings out the entire stock within the granaries to dry it; for it seems the excessive moisture destroys the preservative power of this acid. Another tribe 01 ants, which lays up immense quantities of wheat and oats, is so small that eight or ten individuals are required to carry a single grain. They move in separate rows, over rough and smooth eling hund and down steps, often traveling hundreds of yards to place their it is preserved according to the meang

## MUST LEARN TO KNEEL.

 How tha Arab children Holp to Tame the Little Camela.In Arabia the camel is the "beast of burden." But this useful animal is known by another name as well. Can you tell me what it is? The camel is the ship of the desert.
Arabia is about one-third the size of the United States, and about one-third of Arabia is covered by deserts.
This broad belt of deserts surrounds the valleys that are a part of the great plateau which occupies the interior of he country. And across these go "the ships of the desert."
These "ships of the desert" carry the goods of merchants from one city to

## 

## feeding time.

desert. But the camel has three stom achs instead of one. And before set ting out on a journey, one of these stomachs the camel fills with water, so there is no danger of becoming thirsty on the way. There are tiwo kinds of camels, the Bactrian and the dromedary The Bactrian has two humps on his back, and is a native of Turkey and China. The dromedary has only on hump, and is "the ship of the desert" of which we have been speaking. This camel lives in Arabia.
The Arabian children make much o it. While the little dromedaries are be ing trained for beasts of burden, the and the children learn to like each other. The first thing the little came is taught to do is to kneel down. A camel is so tall it must kneel down to be loaded. So when the dromedary is two months old it is made to knee down for several hours every day. rug is thrown over it, and heavy
weights are placed all along the edge of this covering to prevent it from get ting up.
When it is four months old it is put nto an inclosure with other animals. The Arab children feed them with camel's milk and water twice a day with each meal they touch their leg "Kneel down"" and the This means what the switch says. In a little while they learn to drop on their knees as soon as the stick is lifted.
The camel is easily trained, because it is obedient. And I have heard the patience of the camel talked about when some children were mentioned.Greta Bryar, in Our Little Ones.

SHE WASN'T SURPRISED.
Not Even When the Begrar Changed Her ar Bill.
Charity is one of the noblest virtues, but none is so liable to abuse
A Philadelphia lady, whose warmness logic of facts, had among the pensionlogic of facts, had among the pensionelderly man, who called once a month with the regularity of a rent collector and always introduced himself by say ing: $Y$ ou remember me, don't you, lady? I'm the reformed man.
This slightly obscure reference to his past was always accepted as a guarantee of his present merit, with the re sult that a dime was handed out as an incentive to remain reformed.
One morning he called as usual and made his usual speech.
"I am 80 sorry," said the good lady, "but I don't think I can give you any thing to-day. I have nothing but a twenty-dollar bill.
The reformed man's countenance which had fallen noticeably at the first half of this speech, brightened up visibly at its close.
"Oh, I can change the bill," he said, cheerfully.
"Can you?" said the lady, just as
cheerfully. "Then I'l She brought the bill and the re somed mang seunted out the ghangi
from a pocketful of notes and silver, and then went on
"Thank youl"
When even
husband returng came and the lady' husband returned home, the inciden husband, after an amazed stare, lay back in his chair and laughed until the tears stood in his eyes.
"What is the matter?" asked the wife, in wonder. "I don't see anything to laugh at."
And she does not yet perceive any thing out of the way in a beggar changi

The Old Lady stood Firm
In an Oregon court recently a cas came up in which a husband sued to regain possession of real estate which deeded to his wife. The following di ceeded to his wis. logue took ple ber a lawyer an
Irish birth
"You admit that your husband re quested "Yis, sor, he did, an'
too."
And you refused, point blank, to do
"Yis, sor, I did. I tould him a dad in me hand is wort two in me husband's pocket. ButI offered to make a will in favor of him, an' he wouldn't have it. He tould me he'd sue me for a dade,"
"And you allowed him to do so?" me darlint, sue away; but ye'll find it's a case where ye'll have to take the will for the dade.'

Bold Canine Conspiptracy
A dog had been worried by another dog of greater size and strength, and when he returned home it was observed that he abstained from half the proporkind of allotted food, and for some days he went out and brought several dogs of the vicinity back and feasted them upon his hoard. This ain gular proceeding attracted the atten tion of his master, who observed that all the dogs went out together. Folowing them, he found they proceeded o the outskirts of the town, where the leader singled out a large dog which was immediately assailed by all the guest dogs, and severely punished.

She Did Not Think so.
Nora was in her little night dress. Mirs. Strong, having given her a goodnight kiss, reminded her gently, as usual, not to forget her prayer to God "hat she be made a good little girl.
"Must I ask Him that every night, "Yma?" Nora asked, gravely
"Yes, little one," her mother replied. "Mora was thoughtful for a moment. "Mamma," she said, in an injured tone, "is I such a dreffully bad little girl as all that?"-Judge.

## Little Girl's Reasen

"I'm glad I don't own all the dolls in the world," said Mabel; "because, you another."-Harper's Young People.

Whatever may be the cause of blanching, the hair may be restored to its origina color by the use of that potent remedy

For a thorough business and shorthand course attend the Wichita Commercial college. Y. M. C. A. building.

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Is certainly the most important object of medicine.

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Gives instant relief in cases of Scalds, Burns, Wounds, Bruises, Sprains, Aches, Chilblains, Itch, Frostbites, Sore Nipples, Cramps, Rheumatism, Neuralgia, etc. Easily applied. sOOTHING AND PENETRATING.
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# KANSAS FARMER. <br> ESTABLISHED IN 1863. 

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sUBSCRIPTION PRICE: ONE DOLLARA YEAR. of tixit anextra appy

## Display advertising  Bpecial reading notices, 25 cents per line. Business cards or miseclianeous advertisments ali be receeved from rellible advertieers at the rate      Address all orders-

An English writer asserts that in his country as the price of wheat declines so does the marriage rate.
If you want one of the finest magazines published, send us $\$ 2.25$ for KANsas Farmer and Cosmopolitan.
If you want Kansas Farmer and Semi-Weekly Capital, send us $\$ 1.50$. Or, Kansas Farmer and Topeka $A d$ vocate, send $\$ 1.50$.
One dollar and sixty-five cents will pay for the Kansas Farmer and the twice-a-week New
body should read.

We want our readers to secure for us thousands of new subscribers for the KANSAS FARMER and we will pay well for such work. If you will get up a
list, write this office for liberal terms.
It has been discovered that in England, in 1842, when wheat averaged 51s. $3 d$. per quarter, the people consumed 440 pounds of the grain per head, while quarter, they consumed only 363 pounds per head.

Many of our subscribers desire a daily newspaper. In renewing your subscription it is well to note the fact scription to KANSAS FARMER and daily Kansas City Star for \$4. Or, KANSAS Farmer and daily Leavenworth Times for $\$ 3$. The amount for both papers to be sent to this office.

Every farmer in Kansas, and espeEvery farmer in Kansas, and espe should have the greatest live stock journal in the world, the Breeder's Gazette, of Chicago, price $\$ 2$ a year. We
make a special offer of it and the KANmake a special offer of it and the KAN-
SAS FARMER, both papers one year, for only $\$ 2$. Subscribe now through this
office.

Bulletin No. 37 of the Illinois Experiment Station gives the results of exreader cannot fail to be impressed with the importance of carefully selecting Kansas experiments, there is the widest range of yields from the several varieWhite" shelled out 107 bushels per acre, which, when thoroughly dried, was still 98.4 bushels.

The current issue of American Gar dening (New York city), contains a most interesting article by Professor Taft, on the subject of irrigating small
farms, gardens, etc. Professor Galloway, Chief of Division of Vegetable Pathology, United States Department of. Agriculture, contributes a remarkathe "Physical Properties of the Soil as a Factor in the Growth of Crops." This neglected.

NINTH BIENNIAL REPORT OF STATE BOARD OF AGRIOULTURE
A volume of 537 pages has just been issued hy the Secretary of the State
Board of Agriculture. It contains descriptive statements, statistics and general information relating to each county and the geographical and topographical
features of the State, together with features of the State, together with
tables, statements, summaries and diatables, statements, summaries and dia-
grams, showing the products, progress and development of the State; report of the appointed officers of the Board
and general agricultural information. and general agricultural information.
The statistical features of the Kansas Biennial have long held the firs place for comprehensiveness and reliability. They are not excitingly interesting reading but they constitute a
mine of information in convenient mine of information in convenient
form for reference. Their value in all form for reference. Their value in al source is such that they should be in the hands of every farmer who is trying to keep himself informed of
matters pertaining to his calling.
The part of the report devated to professional and practical papers and uable. One of these, "The Wellhouse Apple Orchard-Largest in the World," by Phil S. Creager, is alone worth the price of a big book. This paper will in order to give it a wider circulation than is possible with the limited edition of the Biennial.
The introductory by Hon. Thos. M. able production, which reflects the drift of the most progressive agricultural thought of the State. He says:

The ninth Biennial Report of the Kansas presented, but to appear later by some months than it should, owing to a lack The biennial period to which it relat
has been, for Kansas, in common with has been, for Kansas, in common with all
her sister States, one of less than usual prosperity. This has been due not alone to succession have been common to so many
portions of the Union, but also to the general depression existent in nearly all busi-
ness channels throughout the world in spite of so many extraordinarily adverse conditions, Kansas, as a whole, has not
failed in the production of tremendous failed in the production of tremendous
quantities of the great staples, which conduce to comfort and prosperity at home and A State evolved within a third of a cen-
tury from a wilderness, and which, in the two most unpropitious years of her history
as to both agricultural ard financial conditions, produces from her soil the necessa
ries and luxuries of life to the extent of \$236,000000, has small occasion to feel hu
miliated, but on the other hand has demonmiliated, but on the other hand has demon-
strated, once and for all, the tremendous
resources of her soil and people, even under resources of her soil and people, e
circumstances the most adverse.
Shortage of crops in various portions of the sonable rainfall, has caused the question of irrigation and the extent of the available water supply and its possibilities to be
much studied by our people, many of whom through individual enterprise, and with encouraging. The ascertainment and utili zation of the underground waters, a judi-
cious catchment, conservation and use of
the storm waters heretofore so largely the storm waters heretofore so largely
wasted, the deeper, more thorough break ing up of compacted, imparvious subsoils best adapted to the different sections, along
with a more thorough system of agricul with a more thorough system of agricul-
ture (which are now subjects of profound
study). promise an increased and study, promise an increased and constantly
increasing prosperity. Instead of vast
ranges, sparse settlements, slipshod ranch ranges, sparse settlements, slipshod ranch
farming, wheat kings and cattle barons,
this will mean intensive farming-a land of this will mean intensive farming-a land o
small homes, modest competence and com munities contented because comfortable.
The conditions which have prevailed whatever their effects elsewhere, are to result in a new agriculture and a new pros-
perity for Kansas, upon which we are now entering. The ways and means of these magic quartette, ""rrigation,",

as to demonstrate the entire feasibility o assuring crops annually, regardless of seasonable rainfall, by fructifying with the
extensive underground water supply (inde extensive underground water supply (inde-
pendent of streams) a very considerable
percentage of our most percentage of our most fertile lands, in the
western two-thirds of the State especially where retarded rainfail during the growing its of agriculture quite uncertain. The pumping of these waters will in large ing to the work the ever-present breezess. shine, are wafted across nur broad prairies
and give the ideal healthful climate for all breathing things, and for developing the
choicest growths of grain, fruit and flower. By means of subsoiling, there will be
stored in the soil, for stored in the soib, for use when mose
needed, much of the usually sufficient rain
all now permitted to w
pithed to waste itself and do The wonderful plant, aifalfa, is proving it self not only one of the most reliably pro-
ductive, useful and protitable field crops known to our agriculture, but also especially adapted to the soil conditions prevailing in hose sections of the State where some o always reliably productive. Arops are no tion applies to the sorghums, and particu-
arly some of the non-saccharine varieties nown as Kaffir corn, millo maize and Jerusalem corn, which, under even phenom
enally adverse conditions, give prodigious ields of superior forage, and wholesome nutritious grain for that live stock which,
under the new environment, must necessarily become highly developed, and will It is advancement
It is the object of the Board of Agricul-
ture to be practically, helpfully useful in ture to be practically, helpfully useful in
the every-day affairs of the people whose
servant it is, and to accomplish this it must have their cordial, generous support. I its usefulness to its employers is restricted nd made inefficient in a like ratio.
At the annual meeting of the Board in
1894, Hon. Martin Mohler retired, after six years of faithful, Mohduous retired, after six
yerk as its Secretary, with the good will and wishes of al
The thanks of the Board are due to Mr . W. Longshore, the long-time chiei cler charge of the very impertant statistical
work-the excellence of which speaks for work-the excellence of which speaks fo . Mohler; also the various officials, mem ily co-operated in gi
Board's undertakings.
Those who would secure copies of this $\cdot v$ valuable book must apply to the cents for postage.

## J. STERLING MORTON.

There is a man in Washington who ccuples the chair of Secretary of Ag the time he took the office that he is mall-sized politician and possesses dulge in "smartness" and high and lofty assumptions of superior wisdom virtue. It is not the custom of the KANSAS FARMER to notice the doings of public officials unless they are exceptional. But the recent action of the Secretary of Agriculture is so remark able and has to do so directly with the interests of farmers that some notice it seems necessary
The order of the Secretary exclud ing Mexican cattle was based on the are likely to infect othe diseased and which they come in contact or which occupy pastures or premises where the Mexican cattle have ber Where the $f$ exclusion was in the line of rovernment and the protio of good herds. It was not on unueual or our but to have omitted to male it order f the threatened invasion of thes iseased cattle would have ben these eglect of plain official duty. The gros bat the production of beit The fact this country has been unprofitable on account of the low prices was not the reason of the order. That fact, howver, had its natural and necessar esttl ha reduction of herds until atle had ance a igure which me great slaugh producer. Indeed ing to bid up sharply to $e$ the hav plies. They also adven get their sup beef to the consumer. It is a pretty well understood fact that these grea oncerns are, under ordinary circum ances, about able to control both the prices at which they buy and the prices then they sell. They have a 'lit or anderstanding among themselve or this purpose. Naturally, they make the margin between what they pay and what they receive pretty broad. They advanced prices to con-
sumers on account of the scarcity and advancing prices of stock. They the became anxious to again buy cheap. the Secretary should just at this juncure open the doors to Mexican cattle nd they thus have a club to beat down the prices to farmers. They probably are nothing for the Secretary's insinuation about a cattle trust, so long as margin of profit by checking the price cattle on foot.
It is not claimed by the Secretary that the Mexican cattle are less disased than when the order of exclusion was issued. Indeed, the season is now here when the disease is most virulent.
The cheap demagogy of the allusion to
cattle trust is exceedingly transpar the official hesd of the agricultural nterests of the United States. This action of Mr. Morton is more in line with the interests of the cattle trustthe packers.

## IMPROVING MARKETS.

Prices of staple products of this country made a general advance last inuation this advance was but the con past, but it was more marked The ve les ing articles-whest, The otton and petroleum - commodities hich supply 40 per cent of this coun his supply have connifested coun trength in the markets, and the ad vance has been so persistent and so lecided as to leave no doubt of the eality of the roducts of industry whiphese are all roducts of to that whe whioh epressed to urtalled thel produ would have what orth.
Four of these products are agriculural, and, as to these, natural causes ave conspired with the depression in prices to limit the supply. Thus, in he case of corn the drought of last eason greatly diminished the supply. his led the thus assisting to reduce the surplus carried over from the untheual aro carcity of feed hes also affoct this upply of beeves and thereby asisted pila he advance. But not only have beeves dvanced, but stockers as well. The tatistics of cattle in the United States real shortage of cattle, which, if the ranges were as abundant as they were few years ago, would require several years to make up. But the ranges will never regain their former importance
in the cattle industry of this country. So far as they can be irrigated they will be wanted for farms, and for this purpose the water of these areas will e appropriated. The cattle business ines similar to those be conducted on tlements and the sudden older setlements, and the sudden and great increase of cheap cattle cannot again
repeated.
Wheat statistics have long indicated rise which must have been realized ooner but for the depressed condition of agriculture, which compelled the wheat-grower to market every bushel that could be spared, and that as rapidly as possible, in order to meet his pressng demands for money. This has dly dly than it was consumed and has nabled the bears-speculators interested in lowering the prices-to make successful attacks upon the market. When markets are falling speculators nearly all turn bears," and pose their tactics. When, as now, the market is rising, the "bulls" are frequently able to bankrupt the "bears" and speculation conspires to hasten the ast week's prices. The advances of have cost theat market are said to $\$ 150,000$ the noted "bear," Pardridge, racts whi one day to buy off from conell which he had entered into to hav. This speculator is reputed to ing to all whense sums by contractand then wheat at the current price o then hammering the price lower him the decline ren would rather pay wheat. Now that the actual conditions make further depression of the market impossible, speculators are disposed to buy instead of sell and to so force the market up as to make the seller pay wheat. Indeed, neither buyer nor seller owns nor expects to own any wheat, although, if he desires, the seller may deliver wheat according to his contract. But the actual wheat markets generally vary with the speculative markets. The present situation differs from that of recent years in that the speculators find their profits n helping to advance rather than depress the price.
The rise in the price of cotton is not normous accounted for. The crop is The advance appears to be purely speclative. It is none the less real.
Stocks of petroleum have
greatly reduced within the last two or three years. This, together with the fact !that the oil monopoly is able to dictate the course of all smaller conossibly some great competitor may see profit in oil and enter the field.
It is a noticeable fact that silver has taken an adrance simultaneously with other products.
It is to be hoped that more regular employment for labor will, as it should, accompany the improvement in prices better times be expected and, as suggested by a prominent financial authority, the country may be "on the verge of an era of very unusual prosperity."

## ADVANOE IN FOOD STUFFS.

A Minneapolis dispatch, dated April 18, says: "The millers here report that the sales of flour to-day have been enormous. The avidity with which offers are picked up at advance quotations proves that stocks of flour everywhere are practically exhausted and that trade begins to believe that possibly the present advance is but the commencement of a very material one. The millers advanced prices all over the country 10 cents to-day. They have also advanced prices in Chicago. Some of the milling concerns here say their sales to-day have been the largest in the history of their business."
A Chicago dispatch of the same date gives a sample of the news which the not distant future must furnish frequently from the wheat pit: "There was a scramble in the wheat pit on the board of trade to day. The forces at work gave this market an explosive character. At the best price made in the excited market this morning, May wheat was up about 4 cents in three days. Last night the price closed after sharp buige at $57 t$ cents seller. The first sales to-day were all from $57 \frac{1}{2}$ to 58 cents. The bulls were standing on their heads with delight and the hears were half frightened out of their skins. The little shorts took their punishments the first hour around 58 cents. At this point holders sold a great lot of wheat In grabbing for profits. Elevator people sold wheat heavily. Ream, who sold a fresh short line. The trade watched Ed. Pardridge closely. They count his short line in the millions. That plucky plunger pinched his cigar tighter than ever and stood his ground. Brokors said he covered a lot of wheat July trying to stop the advance. The market lifted during a flurry at midday from 57 to 58 in about two minutes. Export clearances in wheat and flour reported from the seaboard was very large at 570,000 bushels. The milling demand over the country has suddenly become urgent. Milwaukee millers were bidding 2 cents over yesterday the spring wheat acreage much reduced from last year. Foreign markets were all higher.
Farmers may congratulate themselves that there is no reserve of wild which the Secretary of Agriculture can admit for the purpose of checking the recovery of remunerative prices. It is not certain that Mr. Morton will be able to make his "check" on the cattle market work very long. Producers and owners of healthy cattle tions for the exclusion of the regulalocted Mexicen cattle to the fever-inIn Kanses the catte so unused. In Kansas the tive Stock Sanitary orously in hand and at this writing has issued an order quarantining 2,100 has issued an order quarantining 2,100 Butler county. Accompanying that order was also an official announcement of the fact that the M., K. \& T. stock yards at Parsons are under quarantine rom the-fact that the oflcers of the company and the stock yards permitted Snyder Bros., who owned the above cattle, to unload them in the yards. Cattle from Mexico are exIt is continually becoming more eviIt is continually becoming more eviproducts of the farm is approaching. effects of such acts as that of Secretary

Morton can produce no more than temon the production of food.

Weekly Weather-Orop Bulletin.
Weekly Weather-Crop Bulletin of the Kansas Weather Service, for week ending April 22, 1895-T. B. Jennings,
Observer Weather Bureau, Director : conditions.
The temperature foll below the nor mal during the first days of the week and light frosts formed over the State, bied the warm days following have carand at themperature above the normal and at the close of the week there is The rainfall excess of about $20^{\circ}$. The rainfall, however, remains defi cient, except in Grant, Trego, Ness,
Elk and the northeastern counties, though fairly good rains have fallen though fairly good rains
in the northern counties. RESULTS.
EASTERN DIVISION.
Farming operations are being vigorously pushed. Corn planting wel long in the central counties and has begun in the northern. Corn is coming up as far noith as the Kaw river, while in the extreme south farmers have begun cultivating it. The great est advance, however, is in the fruit of bloes and grass; the orchards are full of bloom and the prairies are carpeted with green. Wheat and oats are still looking fine, though rain is much needed generally.
Brown.-Ground in splendid condiing; a good growing week; corn planting in progress; oats and wheat doing exceedingly well; pastures generally Marshall.-Very favorable for grow ing crops; oats looking fine whew pastured during spring in poor wheat tion, that properly put in and not pastured doing nicely; corn planting acreage

Pottawatomie.-Crops looking well; pastures getting good; corn planting begun and some of it up; gardens fine:
fruit prospects flattering; apples a mass of bloom.
n planting in progress; grass growing nicely; some stock already in pastures; season ten days Douglas - What.
Douglas.-Wheat, rye and oats are
growing some; grass seems to grow growing some; grass seems to grow
slowly; a large per cent. of the corn slowly;
now in.
Osage.-A good rain and a light wheat in good growing conding fin Coffey. -ICorn about all plan some up; flax coming up; grass is growing rapidly except in the central parts; apple trees loaded with bloom, resembling flower beds dotting the
prairie; oats generally look well but prairie; oats generally look well but
chinch bugs are appearing in the fields. Woodson.-Corn planting finished, some coming up; oats fair; flax good Crawford.-Fine growing weather; corn mostly planted, some up; apple Wilson of bloom.
turning. Wheat not looking so well, turning yellow; oats at a stand; prospect for fruit spleang rains.
Labette.-Some hail this week wheat is doing well and very few bugs;
corn and oats doing well; prospects for fruits good.
Montgomery.-Small grain suffering for rain; severe hail storm in southeast part of county, doing great damage to crops, gardens and fruit; corn up and
some has been plowed once; chinch bugs in many of the wheat fields; stock prospects the best
Elk.-Corn coming up well some commencing to cultivate; good prospect for all kinds of fruit.
Chautauqua.-Earliest planted corn being cultivated; all other crops in; alfalifa being sown; cattle all on grass
getting ready for market; wheat doing well; all fruit has an abundance of

## MIDDLE DIVISION

The orchards are giving fine promise now; much corn is going in; wheat and gardens growing nicely. The wend and dirt storm the first of the sand was probably unprecedented. It did some damage by blowing away loose dirt. A good rain is greatly needed. ally good for Weather has been genercoming up; cattle going into pasture. Phillips.-Wheat better; oats up and in good condition; corn planting in
for fruits; some hail first of week, fol-
lowed by light frost. Cloud.-Everythin
ght frost on the 18th. looking fine; Mitchell. - Crops growing moder ately; corn planting progressing; corn up in some fields and stand good; but many of the fields will be put in corn oats looking fell. potat be put in corn in fair condition; much Kaffir and Jeusalem corn being planted.
ome hail in northern part of county apples and cherries in full bloom; rain badly needed.
Dickinson. - Corn planting begun and a much larger acreage than usual
will be put in; oats doing well pota oes coming up; good prospects for an immense fruit crop; wheat not improv
Marion.-Corn planting progressing inely; fruit damaged to some extent by heavy dry winds.
Harvey. - Corn planting well ad anced but not coming up on ac count of lack of moisture, wheat an Reno. - Corn mostly planted much of it up; ground is moist yet high winds of 14 th, 15 th and 16 th did much damage by drifting soil in fields. Kiowa.-Terrific sand storm on 15th
destroyed nearly every acre of wheat on fall plowing in our neighborhood on fall plowing in our neighborhood; half the plum blossoms killed; corn growing nicely where lister furrow ing. ing but too dry for growth; pastures Cowng well.
Cowley.-High winds first of week nished some wheat on the uplands up; fruit prospect good.

Very dry; rain needed; th dust storm injured wheat and cats; planted being cultivated; light frost on pisth.

## WESTERN DIVISION

The severe wind first of the week
filled the air with the dry sand and caused considerable damage to growing crops and fruit blossoms. Wheat does not yet give much promise and some Oats barley gind grass are mat grains headway, and much stock feed is goo put in in the shape of Kaffir and Jerusalem corn. Fruit here, as elsewhere gives abundant promise.
Norton.-Winter wheat badly hurt; spring grain looking very well; corn planting begun.
Decatur.-Fine crop week except the evere dust storm first of week; al crops making satisfactory p
ground in excellent condition.
Cheyenne.-Wheat looking very good grass starting nicely; farming gener ally begun.
planting has Grass growing nicely; corn matters owing to teams-no grain to feed.
idly.
homas.-Good growing week. whes
nd all small grain doing well; whea coming nicely; some late-cultivated Trego.-Hail first of week, beating down early gardens, barley, oats, rye
and wheat; some wheat fields will be and wheat; so
Wallace.-Small grain on arid land looking well where not blown out nicely; irrigated crops fine; large crop of onion seed planted, coming up nicely. Ford.-All crops hurt some by high
winds and sand storm; old alfalfa looks fine, some new blown outi prospect ery favorable for
in first-class shape.
Kearney.-Some slight damage to rops first of week by high winds. faeek; very little damage to crops here, however
Grant.-Barley and oats growing
nicely; wheat not doing much good; nicely; wheat not doing much good; being planted to be irrigated from wells; some hail first of week
Stanton.-Cattle and horses sheltered
during late storm look well, those not uring late storm look well, those not some by freeze of 17 th , not all killed garden vegetables coming up; most farmers irrigate a small patch from wells; some planting being done. Clark.-Oats and barley damaged by
sand storm first of week; alfalfa un sand storm first of week; alfalfa un usually forward for the season of year
We can furnish you Kansas Farmer and \$1.75. Or KANsAs FARMER and Arthur's
Home Magazine for \$1.65. Send to this Home Magazine for \$1.65.
office amounts above named.

## Oondition of Winter Grain

The April report of the Statistician of the Department of Agriculture makes the average condition of winter wheat on the 1st of April 81.4, agains 8.7 last year. It was 77.4 in 1893, 81.2 1892 and 96.9 for the year 1891. The The ave for rye is 87 .
The averages of wheat for the prin cipal States are: New York, 92; Penn sylvania, 92; Kentucky, 86; Ohio, 86 Michigan, 78; Indiana, 83; Illinois, 87; Missouri, 89; Kansas, 53; Nebraska, 45; California, 94.
Generally the past winter has been bard on wheat. The fall of 1894 was a dry one, and in many States not favor able either to the germination or to the maintenance of the vitality of the plant. The spring has reas Mroughty over extensive produs. Much good, however, has been of March o ndiana, Illinois, Missouri and Iowa. Moderate rains also fell in Nebraska and South Dakota. It is reported, howver, that the soil was so dry and had uffered so long from drought that it will require much heavier rains to prouce any permanent effect.
The average date of seeding for the hole country was October 9. Very reported.

## Gossip About Stook.

Next week the Kansas Farmer will pubish a sketch and picture of Hon. T. A. President of the Kansas Improved Stock Breeders' Association.
Every fancier of poultry or other im proved stock should send to the De Kalb catalogue of their fencing which, is , Io ratifying satisfaction to all who have used it. It is durable and cheap.
G. W. Sherman, of Garnett, Kas., writes hat he has been in Kansas but a few weeks KANSAS FARMER. He has a herd of Poland China swine as well as pure-bred poultry which he brought from lowa, and will soon ave plenty of young stock for sale.
Col. W. A. Harris, of Linwood, ex-Con-ressman-at-Large, has returned to his veat breeding farm better contented than or the wear" because of his experience in Congress. Mr. Harris takes as much pride in breeding as any man in the profession, and deservedly has the reputation of being one of the best Short-horn breeders in the world.
Samuel McCullough, Ottawa, Kas., is one of those quiet and successful breeders of Berkshire swine who would not make a of the best Berkshire afoot. He is esreful nd attentive to business and while but little noise is made in that quarter, yet some way he always succeeds in disposing of his stock at fair prices and has a class
of customers that any one might well be proud of.
Dr. Orr's Book.-Readers of the Kansas Farmer will be pleased to know that arrangements have been made whereby they can obtain this concise and well nign inval book of Disesses of Horses and Cattle" in ombination with this paper at a slight saving in cost.
The separate prices of these are

Two dollars sent either to Farmer Co., Topeka, or to Dr. S. C. Orr, Manhattan, will secure both, making a savng of 25 cents.

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What you want is the through car serice the $n$ io Pacifo and Chicago railroads, which is unexcelled by any other ine. Magnificent Pullman sleepers, dining cars and chair cars, run through daily with-

## Sorticulture.

## Shawnee Horticulturists.

Editor Kansas Farmer:-Shawnee County Horticultural Society will meet in regular session, Saturday afternoon, April 27, at Lincoln Post hall, east "Pruning, Spraying and General Care of Orchard." Mr. B. F. Van Orsdal will also give some of his experience will also give some of his experience on his recent Florida trip. All inter tend. F. G. Tompkins,

Secretary.

## Strawberry Leaf-Roller

Strawberry plants are often injured by insects called the leaf-roller. The pest is present at two seasons of the year. The first brood hatches from the egg early in the season and works upon the plants before fruiting. These worms change into moths which emerge in July and lay eggs from which the second brood hatch in July and August. The worms from this second brood work upon the plants the latter part of the summer and pass the winter in the ground, emerging a moths early in the spring. These lay the eggs from which the frrst brood hatches. The young worms roll up the the green portion, leaving it brown and $\underset{\text { dry. }}{\text { W. }}$
Wherever the patch is affected they may be picked off by hand and destroyed, provided they are not too abundant. If they are too numerous for this treatment, mow the patch and burn the tops when dry, then when the new growth appears in July and August spray with Paris green and the Bordeaux mixture or dust with some then be in excellent condition to pass the winter. This spraying must be attended to as soon as the plants have made a start age.

## Peaches Which Succeed

The following excerpts from a lette written by Joseph Little, of Eskridge, o J..F. Cecin, or North Topeke, con this year's prospect for a peach crop, this year's prospect
"I interest many:
I have no secret of success nor the ory, only a little experience, which am willing to impart to others. M orchard is on high ground that is 8 poor that it would not raise corn at al -rather gravelly and stony, somewhat sandy. I have tried rich slope and
bottom land and the trees grow faster bottom land and the trees grow faste down by their own weight and fail in few years and the peaches generally all rot. Remember, this is my own experience only. Some of my neigh bors have trees on low land and they when crops when frost kills thairs in the sprin and does not kill mine, I have a bi crop that year; then the next year being a good peach year, they have a good crop and I have a small one or none. This has happened two or three times.
varieties.
"Brice's Red June, Cole's Early Red, Amsden's June, Alexander. These four are all about alike. Earliest ripe. one of them you don't need the others. All ripen about same time
"Hale's Early is same as above but a week or ten days later and rots badly.
"King George is the first free-stone ripe. About a week after Hale's Early. Very choice, fine flavor, much like Large Early York.
'Jaques' Rareripe is a yellow free stone. Ripe same time as King George, i. e., begin to get ripe as Hale's Early
is about gone. Trees and buds tender. sabout gone. Trees and buds tender. ble; yellow free-stone. Follows King George closely. Sometimes rots badly, but no orchard for market is complete without it. Fruit buds tender and easily winter-killed.
"Old Mixon Cling is ripe same time as above. Large and showy; sure long-lived and hardy.
"Old Mix Free is very large, fine
flavor, delicious. A person does not know what good peaches are until he has eaten old Mixon Free. Rather a
shy bearer but gives big returns when shy bearer
it does bear
"Stump the World is ripe same a "Stump the World is ripe same as
above. Large, good canning peach; above. Large, good canning peach;
good bearer; trees long-lived; freegood
stone.
"Ward's Late is ripe a few days later than the above; good bearer; not as large as Old Mixon but fruit red and howy; free-stone.
"Crawford's Late is a large late yel low; free-stone; finest peach known. Handsome, high flavor but shy bearer trees and buds tender (very tender) ripe same as Ward's Late.
"White Imperial is very late; free stone; very large; fine, spicy flavor "Hill's Chill is known.
"Hill's Chill is a late cling; large "Led and showy; good bearer.
"Lemon Cling is a handsome yellow hy bearer.
"Mammoth Cling is a large yellow; shy bearer.
orth mare some other varieties, not and there are some that I have no tried that are valuable."

## Transplanting Evergreens,

Editor Kansas Farmer:-Many people have trouble in transplanting vergreens-a lack of knowledge as to the general wants of the tree. I have een people a number of times plan ous trees. Death, in such circumstances, is only a question of time. In all cases evergreens should be planted in full sunlight. For several years have planted them every spring, and have no more trouble in making them row than any other tree or shrub.
1 confine myself to only a few varie Mountain pines, these three will stand Mountain plies, these three will stan given good results. The Dwart Mave sain pine is low and The Dwarf Moun ain pine is low and bushy, quite eas a given only fair attention during the if given only fair attention during the our to six feet high, should bey from our to they eor ing, should be sheare like to arecompach and of ine form nuk the cum the top down. It makes them more stocky, with many nore chances in favor of living whe planted. The tree should be carefully ug, retaining as many of the smal roots as possible, never exposing the
roots to the drying wind or sun for even five minutes. Have the hole where you wish the tree, in readiness. Set firmly, spreading the roots to their natural position; fill the hole half ful fith good with foot (not manure), tramp For a tree the size buck tree the size of above 1 apply two buckets of water, allowing time enough or the ground to take is up belore fling in balance of dirt; then I fill up the hole evel who the grouad, alter whio bend the lower limbs on all sides, cover them by making quite a mound around the tree. As the dirt seitles the branches become firmly fastened in the ground, making the best possible brace against wind until the new roots begin their new home. During summer th their new home. During summer the mound of earth can be removed, the lower branches removed and there need be no more trouble. The same Noatment will apply to Austrian pine, Norway spruce, etc. Under no circumstances should trees be bought with all the lower branches removed unless the planter wishes to steady with wire and stake. The wind kills more evergreens in Kansas than any other cause. In planting them, if only two feet high, bend some of the lower limbs, cover with dirt and notice results. Cultivate dry times. Geo. W. Tincher. Topeka, K

Geo. W. Tincher.
The Maltese blood orange is said to be one of the choicest and most highlyavored of all the varieties of this ruit. It is of medium size, slightly oval in form, and has a delicate aroma. Its pulp is in some instances as red as the flesh of the beet, but this color varies in different sections. In California it is deeper than in Florida and on the coast, where it sometimes has but a

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## ATLANTIOE York.

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 more fatal results than a neglected col $r$ cough. For all throat and lung disease Ayer's Cherry Pectoral is the best remedy ing cough, bronchitis and la grippe.David Bradley Mfg. Oo.'s Removal From Ohicago to Bradley Oity, Ill.
It will probably be of interest to farmers to learn of the removal of the David Brad(formerly North Kankakee), Ill., which is situated about fifty miles south of Chicago The name "Bradley" has been seen for years and is still to be found on hundreds of thousands of plows, cultivators, rakes tered all over the West and Northwest and in many foreign countries, and has now been "stamped" upon a town a little wa Mruth of the great Western metropolis. Mr. Bradley, who has been a plow-maker State in 1835 to come West and start the first foundry built in Chicago and wes the first man to bring pig-iron into that city. The principal business of this foundry was to make cast plows, which were, of course, a step in advance of the then very common wooden mould-board plow. After a while (in 1854) a small plow factory was started by him, on Cana
street, which was later remove street, which was later removed to Wes
Randolph street. This rapidly increased Randolph street. This rapidy increase needed, whereupon, in 1860, a factory site was purchased on North Jefferson street buildings erected and additional space ac quired from time to time, until the estab lishment reached its present magnitude Early in the foregoing history Mr. Bradley associated with himself Mr. Conrad Furst which was incorporated later as the Furst \& Bradley Mfg. Co. Mr. Furst's interest was subsequently purchased by the Bradleys and the style of the corporation changed to David Bradley Mfg. Co., which it still retains. This company has branch houses at Minneapolis, Minn., Council
Bluffs, Ia., and Kansas City, Mo., with Bluffs, Ia., and Kansas City, Mo., with
general agencies at various points through general agencies at various points through
out the country, extending to the Pacific out th
coast.
coast.
The removal to Bradley City was decided any further enlargement of inabily to secure present location, also because the property which is in the very heart of Chicago, is really too valuable to occupy as a factory lumber yards, etc., and finally because it was found that the shipping facilities of Bradley City are quite equal to Chicago, every railroad entering Chicago can be had over either the Illinois Central or Indiana Illinois \& Iowa railroads, one or both which intersect or connect with them all therefore all fuel and stock can be unloaded from, and all manufactured implement loaded into, cars which run directly into City. Plenty of ground thops at Bradley City. Plenty of ground there permits of needed in the future

## We understand

tion will in no way change change in loca ship or management, which is as follows David Bradley, President; J. Harley Bradley, Vice President and Treasurer, and George H. Francis, Secretary. We are
also told that its policy, as heretofore, will also told that its policy, as heretofore, will
continue to be the production of the best implements that can be made and which
will embrace all the latest Ideas that are will embrace all the latest ideas that are
compatible with good results, including, of course the celebrated "Garden City Clip


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## PEDIGREE CORN

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## In the Dairy.


The Problem of Dairying
The action of the Kansas Legislature in not providing any law for the proection of dairymen makes the future of this industry very uncertain for the next few years. The situation is a sefious one and should be viewed by every armer who keeps a cow or makes a pound of butter for the market, as an nexcusable neglect on the part of cerain representatives who turned a deaf ear to their dairy constituents, honestly entitled to as much consideration as any other class. Briefly stated, the conditions surrounding dairymen are as follows: With good cows and the best of appliances the average cost of butter is 12 cents a pound, summer and winter. The fats that are used in the manufacture of oleo cost from 3 to cents a pound, ensbling the packers to ell the finished imitation article at ents a pound wholesale for the low rades, which retail in the market at he Armour Compan interview with tated that the infery recently, they re composed entirely of fats, no butter whatever enters into the make-up; mall per cent. is used in the higher grades, just enough to give it a faint taste of the genuine article.
The question that confronts dairymen is, can they continue business against such odds? In plain arithmetic it amounts to this: the lower grades of oleo can be put on the market at 25 per cent. less than the first cost of butter. Never in the history of the State, during the winter time, has butter reached so low a figure as has been recorded duxing the last six months, and many of the creamery patrons and private dairymen are very much discourged at the outlook. When the packing-house combine is able to manipulate the Legislature in their favor, as was done at the last session, dairymen stand a poor show of getting any laws that will help their business. One year ago Iowa enacted a law prohibiting manufacturer from coloring their product yellow, and in consequence oleo finds very little sale in that State. During the last session of the Nebraska Legislature similar law was passed, and later information has been received that Alabama Wisconsin and Missouri have all passed anti-oleo laws. Before the next Kan sas Legislature meets let the people say whether the packing-houses should be favored to the detriment thousandso dairymen who work early and late, and are being robbed by these corporations we have helped to enrich. The editor of this department wishes to say to his fel low workers in this State, get in touch and be ready for active work during the present year, as a special session is ti able to be called in 1896, when we can profit by whatever mistakes were can last winter. The names of all the members of the last House and Senate who were against us have and Senate and will be made known whenever the time is ripe.

That Pennsylvania Butterine.
The evidence in the hands of the committee on awards of the butter exhibit at the recent meeting of the Pennsylvania State Dairymen's Association as to the genuineness of the sample, accu racy of analysis and correctness of the conclusion that the alleged packages of butterine were undoubtedly butter, is indisputable. In rebuttal of the statement, supported by affidavit from Ar mour \& Co., of Chicago, and A. J. Palm of Meadville, to the effect that the mate rial awarded second and third prizes was butterine sent by the former to the latter and surreptitiously entered in competition with butter, the committee have on file a letter from Mr . Palm stating that he furnished to George $H$ St. John, the Secretary of the associa tion, a correct sample of the materia in question. Also, an affldavit from Mr . St. John that he personally sealed and shipped by express to State college the same sample. Further, an affldavit from Dr. William Frear, chemist of the State Board of Agriculture and Exper-
iment Station, that he received and opened the package and personally auperintended a careful chemical analysis, with results already published in the press showing that it was undoubtedly butter. There remains no doubt concerning the history of the sample from the time it left Mr. Palm's hands until the analysis was complete. The analysis having been conducted by State authoritied who were disinterested parties and in entire ignorance of the history of the sample, leaves no room for argument or question as to the validity of the results.

A One Oow Report.
In 1893, Mrs. Fairchild, of Rolling Prairie, Wis., was the owner of a hali the family grade cow. The cow supplied and butter. The surplus was sold cream net receipts from the sales made from the cow, including the calf, milk and butter for one year, were a trifle over $\$ 80$. The calf brought $\$ 5$. The milk sold at 5 cents a quart, and the butter at from 20 to 25 cents per pound. The cow, When in full milk, would make over and above the milk and cream used by pounds of butter and one half to nine pounds of butter a week.

New Jersey and Washington in Line. The New York World records the successful passage in the New Jersey Legislature of a law similar to the Massachusetts statute forbidding the coloring of oleomargarine in imitation of butter. The law also provides a penalty of six months imprisonment and a fine of $\$ 200$ for selling oleomargarine for butter. The act takes effect mmediately. There seems to be conabout these days.
The State of Washington has passed an anti-oleomargarine law and so joins the procession. Some of the halfhearted dairymen who used to say: 'You can't do anything to stop this raud," are invited to chirk up and tak fraud, are invited tochirk up and take keeping up an everlasting pounding when you are fighting a fraud.

Forage Orops for Dairy Oows, Good pasture grass re-enforced by a light feed of bran and corn meal makes a ration balanced just right for a milkproducing food. It is also palatable and easily digested-qualities that are indispensable. But we have good pasture only a small part of the vear Grass grows well in May and June, then comes the heat and drought of midsummer, with its short pasture; or the number of stock is small in proportion to the size of the pasture, with, at best, its tough and dried up grass, hich is rendered deficient in nutriwhich and the sustaining elements of heated term. In the latter part of summer or in the fall, we may have another term of good pasture if we are favored with timely rains. In case our calculations are spoiled by the absence of moisture to produce grass when most needed, some soiling crop, such as green rye, green oats, sometimes millett, green corn fodder, beginning with some early variety and ending with some late sort, and Kaffir corn to finish with, which holds green until late in eptember. The forage crops come along in the order named, and any that be cured and stored away for winter use.
I doubt its being a good policy to pasture much if the whole farm is good illable land, worth from $\$ 50$ to $\$ 100$ n acre. If one has rough or low land of course we can have it in permation, pasture, but we can not expect to carry cows all through summer on grass alone. It is certain, if we expect to get the best results and most profit out of the dairy business, the pasture must be supplemented for at least part our summer with other food. On of the summer, but are fed at the morn night and morning during the dry, hot night and morning during the dry, hot weather, with whatever green stuff is
in season, also the grain ration, which we are sure is a paying investment when making butter.

HAVE YOU FIVE OR MORE COWS?
 chine.
a man who has been a storekeeper; to another who has been
a stock buyer; to one who has been farming for five years, and to another who has been farming for twenty years. Other things being equal the "twenty year" man would get your farm. Greater experience - that's the

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## CARRIAGES, BUGGIES, HARNESS



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No Cultivetor ever had such a remark-
abie run the Alret beason. Beies nearly
20,000 in 1894
and this zear will be greaty for reased. ever made and as yet has no imitators. It asillotor


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The family Doctor.

##  

## Are Dootors Honest?

Lying before me is a letter from a stranger, charging nearly everybody in this city, and especially the medical profession, with being dishonest. He specifies several instances in which he claims to have been defrauded in his city. I have no defense to offer for people whose conduct I know little or nothing about, but when it comes to making wholesale charges against the honesty and probity of the medical profession, I am warranted in coming tion that there is no more honest and upright class of men on the face of the earth than medical men, and considering what and who they have to do
with the only wonder is that them are honest. There is no class of men on earth so often and so shamefully cheated out of their hard-earned wages as the medical profession. Any other man if cheated and plundered day after day and night after night, on Sunday would be very, likely to adopt year out, guage of old Shylock and cry out to his oppressors:
"The villainy you teach me I will follow, the instruction!
The nature of his calling makes it necessary for the physician to trust help-the Lord's poor and the Devil's poor, as well as other folks. If any man comes and says: "Doctor, my wife is dangerously ill and she must have help at once or die," public sentiment, which is stronger than statutes, compels the doctor to go to that wife. II over in says: My chis has billed Hurry, doctor, and see if you can save it," no doctor stops to inquire about his pay. He does not ask how much he is to expect for his services nor when he is financially good or worthless, whether he pays his debts or cheats his creditors, but he sees a life at stake and goes.
Nobody has any legal right to demand or command his services, and he unless I am sure of a good fee." But the unwritten law, called public sentiment, is more urgent than a whip of scorpions. But recently a Minnesota doctor made such a refusal, in a case that he would not be paid, for the man who wanted him was one for the man poor-a man who could, but would, not pay his debts, and that event was telegraphed all over the country and the graphed as overtobated and denounced
doctor was from one end of the land to the other, simply for refusing to work where he was he would not get his pay when it was done. The public thinks itself just to all men, but it is not just to the doctor in that matter If it would pilpeople who could but will not land the people who could but will not pay their the same strong the same strong maledictions they heap on the doctor who declines to serve without pay, then the public
might claim to be impartial. does nothing of the kind. It laughs and jokes over the doctor's discomfiture, takes a note of the occurrence and then all too often goes off and repeats the swindle on the first doctor it employs. If the public educated its teachers, it might expense, as it does its teachers, it might have some right to demand otherwise unrequited service. But the doctor must pay for his own office and library and laboratory and office and library and laboratory and
conveyance, and even the drugs and conveyance, and even the drugs and
dressings often which he uses in the case, for which he must pay cash or be denounced as a dead beat. How many morchants or mechanics would remain honest and faithful to humanity if it
treated them in the same way? Would they not be filled with malevolence and they not be filled with malevolence and
hate and bitterness? Would they not
say, as did Mr. Vanderbilt: "The pub-
lic be damned! I don't owe the public anything!" ! I don't owe the public I know,
an old, gra-tugle instance, where labored night and day in thyisian has labored night and day in this State for ifteen or sixteen years, who has saved many lives and many limbs, and has
$\$ 25,000$ of fair current charges on his 82,000 of fair current charges on his
books that he will never be able to books that he will never be able to
collect. A co-worker of his recently collect. A co-worker of his recently
died, after many years of hard work, who was supposed to be well off, and When his family undertook to collect of charges found in in a mountain ould nos found in his books, they could not collect enough to pay the uneral expenses. Men whose lives and the lives of whose families he had family out of thed his bills and beat the ame dir them, who would never of his charge in of his charges in his lifetime. Instead of dying a well-to-do physician, as al supposed, he died a pauper, with have made his family comfortable for ears. made his family comfortable for life, even in the pulpit, who never ask the doctor for his bill for services ren dered and who pretend to be insulted if he asks them to settle.
But, let the reader remember tha his just indictment is not drawn against the whole public nor all of mankind. There are many noble exeeptions to this all too common prac-
tice of humanity. Once in a while it happens that a man, knowing that he is to have a new-comer in the house-
hold, thoughtfully lays up a few dolhold, thoughtfully lays up a few dolhis services are rendered. One would think that with three-quarters of a year's notice that about a given date
a physician would be needed in the family, the same thoughtful provision would be made for defraying the doctor bill as for arraying the new
arrival. But such thoughtfulness is arrival. But such thoughtfulness is bout as rare as angels' visits.
I know a man who, by all the known laws of life and death, a few years ago was within four and a half or five minutes of the grave, with his carotid artery shot off and the life-blood pouring out of him by the gallon, who was saved by the prompt and skillful aid of a surgeon. And yet that conscienceless ingrate, who has had employment and good wages for years, never has paia a cent for the saving of his life. He and his wife dress and live better than the doctor and his wife can. How faithful to his high mission, think you, a doctor ought to be in such a case? Could you blame him much if he should become tainted with the virus of dishonesty that, like a deadly miasm, confronts im at almost every breath he takes? The merchant can say: "I paid cash for these goods and I must have cash when I let them go." The lawyer can say: "I must have a retainer before I "I must have security before making the loan." The laborer can invoke the mechanic's lien law to secure his earnings, while it is demanded of thedoctor that he go immediately and render the highest possible grade of service to whoever calls him, and then accept what ingratitude may choose to offer him or go without anything, according law protects the hired girl, the day laborer and the contractor, and sees to it that they are paid, if it takes the he coat off their employer's back
Notwithstanding all these adverse conditions, there is no more honest, conscientious, faithful class of men on the planet than the doctors. To stand back from day to day the most artful and relentless foe ever confronted by mortal man, has so much of nobility and exaltation of character in it that found wilfully and knowion will ever be ound wilfully and knowingly dishonest. No set of men have a higher sense of
duty and solemn obligation, and ignornce constantly assails them for being honest enough to differ with it as to
what is best, and then cheats them when they are done serving.

Kansas Farmer and Semi-Weekly World (N. Y.), you can have for $\$ 1.65$
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## The Youltry Hard

## The Peking Duck.

Of the four leading varieties of ducks the Pekings are decidedly the most popular in this country. They were
brought here from China about twenty brought here from China about twenty
years ago and soon displaced the years ago and soon displaced the
Aylesbury and Rouen, the English and Aylesbury and Rouen, the English and The fourth variety, the Caynga, has the disadvantage of coal-black plumage. It also requires the vicinity of lakes, ponds or streams, as it is de cidedly a water duck.
The Peking breed matures earlier than the other varieties. The birds are said to be larger at six weeks old them valuable for market at this age They are hardy, easy to raise, fine for the table and good layers of large white eggs. They grow rapidly, and do well when there is no water. They are not as tractable as the Rouen or Aylesbury, hence a cross with then is often pre-
ferred. A flock of common ducks can

prize peking duck and drake.
be greatly improved by using a Peking arke. Their white, elastic feathers, as plentiful with down, are almos form an important source of revenue when the birds are raised in large numwhen
bers.
Duck
apidly sland, extending, especially on Long ng in size and numbers. The circumstance that the Peking is the favorite breed among all the large duck farmwith others, proves conclusively their elief in its superior merits.-N. Y. World.

## Natural Incubation.

If you wish to use hens to do the inubating it is a good plan to have a room separate from the main house
vith not too much light. Make an ffort to set as much light. Make an possible. It will require but little more ime and care to look after six hens than it will one. Two or three days is none too long for the hen to sit on china or nest eggs before giving the
ones you wish her to hatch. She will have become accustomed to the place will have shaped the nest to her notion, and will have it nice and warm. Give each hen as many eggs as she can confully for two or three days to see that there are no eggs left to get cold. During the first 48 hours the hen should sit perfectly quiet, says a poultryman, as takes just that time to start the tice the hen seldom leaves the nest or turns the egg during this time. After they have sat quietly for four or five days, prepare yourself with more fresh eggs, and go in the evening with a good light and tester and test each egg. A little practice will soon enable you to pick out the infertile ones. When you have completed your work, give each hen the number you wish her to cover. Fair sized hens should have 11, hens will hatch more vigorous chicks from 11 eggs than any higher number. We might go on through the 21 days and describe the eggs as we have broken them and seen the spider-like
little animal, and noticed the pulsation of the heart, etc, but we will leave this for the incubator people. Finally on the 20th day the imprisoned chick has drawn its last nutri-
tion from the egg, its vital heat and circulating blood have absorbed every particle of the substance of the egg, little animal anxious to the vigorous prison cell is punctured by thousands of pores that always break first at the klfrye end of the egra becauge it in el.

## Your money

back if you want it-Vacuum Leather store, 25 c a can at a harness- or shoebook "How to Take Care of Leather," and swob, both free; use enough to find
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chinery also. If you can't find it, write to

\author{

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}
wāys less moist and more brittle at that end. There, too, the head of the beak breaks through for air, and the beak breaks through the rotten wall, that direction, and soon bres hard in from all feeble resistance, and away ends the period of its incubation.-


## Rearing Turkeys.

It is best to confine the brood for a week at least after hatching. Should she may be let out during the middle of the day. As the turkey retires early and dislikes being disfurbed after and coop them before the sun sets. The young turkeys will eat but little the first week. Feed separate from the nother, for she will devour all the greediness, an old turkey hen has few equals. Dry bread soaked in sweet milk is one of the best foods for the young, as is curd from fresh buttermilk. A whole flock has been raised egg to a pint of milk, thickened with bread (no sugar), is a good food. When about two months old, feed whole wheat part of the time and mix corn meal with their feed; this should not be fed exclusively. Allow plenty of liberty, as confinement will kill young turkeys. When the mother hen begins tramping wildly from one side of the coop to the other, better let her ut unless the weather is unfavorable When about the size of partridges in long enough to follow the mothe m long rambles, the young will need butning attention, simply a little feed morning and evening. They much preeds to as, grasshoppers, insects and not negle to civilized ration. Do night and put under shelter home at enough to fly under shelter until old themselves Turkeys do and care for select wisely the best resting place for the night, bence vermin ing place fo tack and annoy them. Teach them to come at the sound of your voice; it will save many a weary tramp in searching voods and fields.
Six weeks' time is sufficient to fatten for market. Feed twice a day all the whole corn they will eat, but do not tempt confinement, as a turkey lafes under restraint and will los esh rather than fatten. They wil sary to keep in good health.

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## 

## The Feterinarian.



LUMP ON MARE.-My mare has a hard lump on her left side near the fore leg. It is not very sore but seems been there over a month. What shall I do with it?
Plevna, Kas.

Answer.-The lump is the result o an injury, probably the fracture of a rib, and had better be left alone unless you can detect pus a

Lame Mare.-My neighbor has a mare that I think is stifled. She carslightly on the ground. It is swollen
D. McC. some.
Hays City, Kas.

Answer.-The term "stifled," as used by horsemen, refers to the dislocation of the patelle and in that condition the leg becomes rigid and remains so unti the patella is returned to its place. A sharp blister should then be applied to the inside of the joint. Your mare is lame in some other joint and it must be Sow Ailing.-I have a sow that will follow me and squeal when I feed the others but she will not eat anything once in two or three days. About four weeks ago she had a boil on the lower part of her ham which I opened and let out a lot of pus. She likes buttermilk. How can I make a good home-made Hardilee, Kas
Answer.-Examine your sow to see if there is not some sore about her jaws or in her mouth that interferes with her eating. If so the remedy will be to give her soft feed until the sore gets well. Dr. D. E. Salmon's prescription for hogs is the best we know of. Horses do not need condition powders unless they are sick and then they require special treatment according to the symptoms. Wholesome food is the best tonic a horse can eat. There is no medicine or combination of medicines that constitute an "all-round"
cure.
CAKED UDDER.-Caked udder was what I wished to call your attention to and not the decrease of milk. During the cold weather one teat after another began to cake till all were
Eureka, Kas.
Answer--Give one pound. F. W. Answer.-Give one pound of Epsom salt dissolved in half a gallon of warm water; then give one ounce of nitrate of potash twice a day for a week. Bathe the udder twice a day with hot water, wipe dry and apply a little of
the following, rubbing it in well with the following, rubbing it in well with the hand: Gum camphor rubbed fine 2 ounces; fluid extract of lobelia, 2 ounces; olive oil, 6 ounces; mix. Milk The cow should be sheltered and not allowed to lie out on the cold, damp ground at night. Some cows, from some unknown cause, are predisposed to garget and have frequent attacks

The world has had its "stone age," its "dark age" and its "iron age;" it is now in its "steal age" and its "bond age," and
there are some inhabitants who hope the latter ages will never end.

Horse Owners! - Try gombault's Caustic Balsam



 Bteady.
sales:
 Horses-Recolptsts since Saturday, none:
shipped Saturday, 9 . There was Ittle done at the e horse and mule barns to doas in the way of of
sales. A good many traders are looking around preparatory to the opening of the auction sales to-morrow. The managers expeet a good strong $m$
horses.
st. Lonis Live stook.
ST. Louts, April 22. -Cattle-Reoeipts. 3.400; light supply and poor in quality: good to choteo steers worth $85.00 . \oplus 5.50$; tair to medium, $84.25 \odot$



 5,700; shipments, 100; most of the recelpts went direct to slaughterers; market slow; native
mixed of 90 pounds, $88.85 ;$ native ollipped, *a. 0 : mixed of 90 pounds, ze.85; native oilpped
fed westerns, 8.35 ; spring lambs, 88.00 .

## Ohlearo Live stook.

CHiOAGO, Apri1 $2,-$ Hogs-Receipts, 25,000; omotal Saturaayi 8.588: shipments Saturday,
565: average weight for the past week. $2 \%$ pounds: average weight for the previous week, 223 pounds; lett over, about 2.300 ; quality only
fair, market opened active and steady. later fair, market opened active and steady, later
ruled quiet with prices 5 oo lower. Sales ranged
 packing: 84.80005 .00 for milised, 24.80065 .10 iot pheavy pucking and shippling lots; plgs, $88.50 @$
4.e5.
${ }^{\text {Cattle-Reelpts, } 8.000 ;}$ ofmolal Saturday, 482; shipments Saturday, 523 market steady.
Sheep $\rightarrow$ Receipts,
16,000 ; oflotal Saturday, Sheep-Receipts, 16,000 orfictal S
5,417; shipments, 4,037 ; market weal.

| ril | Openea | Hig | Low |  |
| :---: | :---: | :---: | :---: | :---: |
| Wh't-April. |  |  | ${ }^{613}$ |  |
| July, |  |  | ${ }_{61 \%}$ |  |
| ${ }_{\text {May }}$ |  |  | 776 |  |
| ${ }_{\text {April }}$ |  |  | , |  |
| May |  |  |  |  |
| April |  |  |  |  |
| May |  |  | 126 |  |
| ${ }_{\text {May }}^{\text {April }}$ |  |  | 699 695 68 |  |
| July |  |  | - $\begin{aligned} & 7074 \\ & 887\end{aligned}$ |  |
|  |  |  |  |  | Kansas $\overline{\text { Clty }}$ Grain.

Kansas City, April 22.-The train of wheat was included in to-day's recelpts. Some of it was on sale, and there were a number of other samples on the floor. Prices were 1@20 higher mand and trade was about as slow as ever. No sales out of store were reported.
The demand for wheat is entirely local now.
so that quotations on the basis of Mississippi so that quotations on the basis of Mississippl
river are not practicable. receipts of wheat to-day, 46 cars a year ago, 54 cars.
Sales of car lots by sample on track, Kansas City: No. 2 hard wheat, 2 cars $57 \mathrm{c}, 1 \mathrm{car} 57 \mathrm{Mcc}$, 5 cars $59 / \mathrm{pc}, 2$ cars 59 c ; No. 3 red, 1 cor $581 / \mathrm{c}$,
11
2 cars 58 c . No. 4 red, nominally, 55 c ; rejected, 2 cars 58c; No. 4 red, nominally, 55c: rejected,
nominally, 5 se. Corn was held higher, but there was almost
no demand for the few samples. A single sale was reported.
Recelpts of corn to-day, 12 cars: a year Receipts of
Sales by sample on track, Kansas City: No. 2 mixed corn, 1 car 45c; No. 3 mixed, nominally, $4 \mathrm{lc}:$ No. 4 mixed, nominally, $43 \mathrm{c} ;$ No. 2
white, $411 / 2 \mathrm{c}$ bid: No. 3 white. nominally, 45 c . white, $431 / \mathrm{cc}$ bid: No. 3 white. nominally, 45 c .
Oats sold very slowly and a good many samples were on sale. samples were on sale. track, Kansas City: No.
Sales by sample on trater
2 mixed oats. 5 cars $281 / \mathrm{ce}, 1$ car 283 co 2 mixed oats, 5 cars $281 / \mathrm{c}, 1$ car 283 c ; No. 3 oats.
nominally, $28 \mathrm{c} ;$ No. 4 nominall, $27 \mathrm{c}:$ No. 2 Whitalill, $30 @ 31 \mathrm{c}$.
nominall
Harket
 $87.75 @ 8.25$; No. 2. 87.00 .07.50; fancy prairie, No $2,85.00 @ 6.00$; packing hay, $83.50 \leqq 4.50$.
St, Louls Grain.
ST. Lours, April $22 .-$ Receipts, wheat, 7, 774 ST. Lours, April 22. -Receipts, wheat, 7,374
bu.: corn, 19,300 bu: oats, 45,000 bu.; flour,
5,600 pkgs.: shipments, wheat, 19,400 bu.; corn, 5,600 pkgs.: shipments, wheat, 19,400 bu;: corn,
42,400 bu.: oats, 11,100 bu.; flour, 5,800 bbls.
 July, 274\%.

Kansas City Produce.
Kansas Ciry, April 22.-EEgs-Receipts
Hight: strictly fresh are ouoted at 103 light: strictly fresh are quoted at $101 / 10$ per doz
Poultry - Receipts limited and market stronger. Hens, 6\%@ @ci springs, $83.50 @ 4.00$ per doz.; roosters, 15c. Turkeys are scarce; gob-
blers, 8c; hens, 9c. Ducks, steady, 7. Geese, Butter-First-class table butters are scarc and firm, while the market is well supplied 19c; fair, 15c: dairy, faney, flrm, 15c: fair, 11@
12c, store packed, 13@14c: fair, packed, 8@90 120; store packed, 13@140: fair, packed, 8@90;
packing, weak, 5@60; old, 40; stale butter finds no sale.
Fruit-Apples, supply moderate: market
barely steady on good apples; standard packed ranged from 83.5004 .00 per bbl; others, 22.000
8.03: best fancy stand, $8 . .0005 .50 ;$ Ben Davis, 8.03; best fancy stand, $85.00 @ 3.50 ;$ Ben Davis, 84.00@5.00; common varieties, 82.25, Vegetables-Potatoes, the market is firm:
ordinary kinds, common, 40 a 000 per bu.;
sweet potatoes, red, scarce, 250300 por bu.; sweet potatoes, red, scarce, 25 @300 per bu:;
yellow, 25a 30 c per bu.: Utah and Colorado,
marl:et fair: chotce mammoth pearl, white


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FOR WEEK ENDING APRIL 10, 1895 J. F. Hofman, cler MULE- Taken up by A. B. Doward. In Fall Rtver
tp., P. O. Fureta, December 10.1895, one bay mare
mule, no marks or brands; valued at $\$ 15$, Brown county-J. V. McNamar, clerk MARE-Taken up by R. A. Henry, In Walnut to.
March 25, , T885, one four year.old byy mare, sitt in
right ear, no other marks or brands.

## Gove county-W. J. Heiney, clerk

 bay and one sorrel. sorrel mare branded some dark
olmatlar to on right hip; bay mare hind feet white;
valued at $\$$ \$35. Pratt county-M. C. Briggs, clerk.

 FOR WEEK ENDING APRIL 17, 1895. Cherokee county-P. M. Humphrey, clerk. Horse-Taken up by C. R. Bates, three and a horse, fifteen hands high, harness and sadde marks,
shod all round, branded 9 on shoulder, 10 years old;
valued at $\$ 20$. FOR WEEK ENDING APRIL $24,1895$. Labette county-J. F. Thompson, clerk. HORSE-Taken up by Mary 8horirldge, in Oswego
p., March 3, 1895, one dark bay horse, 9 years old,

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