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BREEDERS' DIRECTORY.
Oarde of Jour unes or lise will we knerted tor the
 ontumance of the cara.

HORSES
PROSPECTT FARM-CLYDESDALE STALLIONB
 $\stackrel{\text { w. }}{ }$

CATTLE
PEDIGREED Molistin- M. H. Alberty, Cherokee
 monabio priseen. Call on or address Thos. P. Babatit
ENGLISH RED POLLED CATTLH AND COTS

N Kimportea Buccaneer iocers sit head of her


 OHiO IMPROVED CHESTRR \&WINE-Pure-brear

 it thaten
ton, Kas.


 D. TROTT ABLENE KAS. headgaarters

TOPEKA, KANSAS, THURSDAY, JANUARY 2, 1896.
swine.
F'ANCY Poland-Cinata, J. H. TAYLOR, Pearl, V. B. How ity Box 108 , Topaka, Kas, brooder anc

PRINCETON HERD op POLAND-CHINA SWINE
 BLUE MOUND HERD OF BERKBHIRE SWINE

 $\xrightarrow{\text { Brahma }}$, ond, ERas.

CATTLE AND SWINE.
A BHAAND gTOCK EARM HRRD OF THORAoustbrod Poland-China hoge, bhorthorn cat


 Fin sinm- Hounans, Dark Brahmas, Partrige





VALLEY FALLS POULTRY YARD,-LIIght Brah.




PURE-BRED FOWLS.


 swine.
 streak or fat and a
service boar or brea sow

S. McCULLOUGH


## BERKSHIRES.

We oriter oholoe seleotlons from our grand
nera, headed by and
breat mported boar. New
WM. B. SUTTON \& SON, Russell, Kansas. SELECT HERD OF BERKSHIRES


T.A.HUBBARD Breeder or
LAND-CHINAS and LARGE EAGNASABH
Lundred head. All

THE WOOD DALE BERKSHIRES
 prizes, the other elght being bred at or by desond.
ants or Wood Dale. Nem Dood by in isi
mportaAddress N. H. GENTRY, BEDALIA, mo. ELM BEACH STOCK FARM
 IRWIN \& DUNCAN,
Wichita,
Kanasas,




BELMONT STOCK FARM
Goo. Topping, Cedar Point, Kansas.

 Quality Herd Poland - Chinas.

 Hy Iaeal Blaok U. S. heod tho herd. Both frrat-prize E E AXI INE OAK Grove, mo. E. E. AXLINE, Jackson co.


R.SCOTT FISHER, HOLDEN, JohnsOn CO., MO.

 Registered Poland-China Swine Elght haad, headed by Royl Perteotion 181598.
 Royal Perreotion.
T. E. Martin \& Bro., Fort scott, Kansas

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VERNON COUNTY HERD

poland - ciminas.
 J. M. TURLEX, stotesbury, vernon Co., Mo. STANDARD POLAND - CHINA HERD. CHAS. A. CANNON, Proprietor,
HARRISNVVILLE, OASS OOUNTY, MISSOURI

 $\frac{\text { R.S.COOK }}{\substack{\text { O. 220 head in hera. Young boars and gits yel } \\ \text { on farm. Write or come and visit me. }}}$ R. S. COOK
 yPoland - Chinas. World's Fair-more than any single breeder wieat of
Ohlo. J. R. KILLOUGH \& SONS, POLAND-CHINA SWINE. Headed by Upright Wilkes 13246 and assisted by
J. H. Sanders Jr. 13779., Our brood sows are all riohly bred and high-olass individuals. A fine lot of fall
plgs, both sexes, ready to go at reasonable prices.

FINE RLOODED Cattle, Sheep
Hogs, Poultry, Sporting Doggs. Send
gtampafor catalogs. 10 engroving
N. P. BOYER \& CO., Coatesville, Pa.
1,309 POLAND-CHINAS
 W.S.HANNA, Ottawa, Kansas.

CATTLE.

SUNNY SLOPE FARM
 C. S. CROSS, Emporia, Kas. We have one of the largest
herds of registered HEREFORD © CATTLE SEANTON HILL STOCX PARII.
G. W, GLIOK, ATCHISON, KAS.


 Chotoe young bulls for sale now. Visitors welcome
Address W. L. CBAFFEE, Manager. ROCK © QUARRY • HERD. N. E. MOSHER \& SON, SALISBURY, MO.,
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THE SHELDON \& WHEELER HEREFORD CATTLE COMPANY

THE ROCK CREEK HERD 200--Pedigreed Herefords--200 250 High-Grade Cows, 15 yearilng bulls, 73 helfers, 154 calves.
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 J. . . dawtan, Kan, vorh To

Thoroughbred Duroc-JerseyHogs


SUNNY SLOPE FARM
EMPORIA, KANSAS.


 boar and four of his get at the Nebrask State fair.
He tis the sire of the two prize winning plgs, King
Hadiey and Samboline, that have won more prizes

 prize and sweepstakesat the Kinangas (Thate trair, 1835).
These boars are either individual prize-winners or from sweepstakes boars. We bred the great sweep-
stakes sow, Faultess Queen Corwin 29788 . We now have on hand about 140 boars sire by by the above.
Our prices are an iow as manl rreeders. Why not
come to the fountain head and get boars to head

 | $\begin{array}{l}\text { of the largest breaders of pure-bred } \\ \text { cattle. Hereford } \\ \text { H. L. LELBFRIED, Manager. }\end{array}$ |
| :--- |

Shropshire Rams and Ewes for Sale,
nld. Write for pricesto
DORSEX BROS., Perry, Pike Co., III.

## culltural fllatters.

"THE MAN WHO GETS THERE." By Reaben Town, read before Misasolon Townshlp
The man who "gets there," at this date, must be brief, or else the other date, must be briet, or else the other
fellow will beat him. Must be ready, like the boy who, when applying for a like the boy who, when applying among position in a busiased what his motto other things, was asked what his motto was, replied:" "He got the job.
In the few thoughts I offer you I shall, from choice and necessity, confine myself to the lives and affairs of common people, not including railroad attorby auctioneering off a few millions, worth of rolling-stock and traps and receive the trifling sum of, say, ten thousand for the job, and don't even set up the regulation lunch of coffee, cheese and crackers. They "get there," but not by our road
There is only one good kind of "get there" and that is based upon the principle of "Do unto others as y would they should do unto you." other kinds are as numerous as the Kansas corn crop of 1895 before harvest. Some methods of "getting there" are more to be despised than the most hopeless failure. I have known an instance within the last few months where a physician, who had been called to attend a poor but honest and industrious family, at the second visit went into the yard, looked at the only cow and a few pigs and asked that a chattel mortgage be given on these to secure the payment for his medical attend ance. We can't reach his case. He "got there," but the people should "get there," also, and dispense with his kind services forevermore. This M. D. does not reside in Shawnee. The kind of "get there" we like is fair and square, founded on that grand
idea that all men are created with idea that all men are created with equal rights, and a failure to enjoy those endowments is a fault of the in dividual and not of the Creator.
Man is controlled by habit. You do not put a draft collar and harness on a trotting-bred horse and expect him to
move great loads. For generations its blood has not been trained for such work; its shoulders are thin and sloping; its limbs and joiats slender and unfit for heavy pulling. So with the large and well-developed animal of any kind. Give it continued poor and in time exposure and sill fis itself to its surroundiags and become stubbed and hardy, but not fine or large.
I am expected to speak of the man the boy. "As the twig is bent the tree inclines."
The young man's education should depend upon the kind of occupation he is to follow. If he wishes to become a great statesman, he should have a long-continued mental training, a thor ough college education, that he ma the intricate and far-reaching ques the intricate and far-reaching questions of State and nation. If he is to bood all-around education, including good all-around education, including win by figures, he can try singing the world his way. My boy, if you expect and are to be a farmer, what can I say and are to be a farmer, what can I say year and live in town two; don't be fooled by those chaps that wear diamonds. You first need, as in all work, good health; added to this all the usethe better. But you must be levelheaded and see a thing before it hits you. The world is changing-moving you. and you mustaim your efforts to meet these changes and you will avoid many of the mistakes common in business affuirs. Have a clear idea of what you each day and your life will be a success. If you begin a piece of work, start If you begin a piece of work, start
right and then work up, not downright and then work up, not down-
making the finish better than the start. making the finish better than the start.
If you want to "get there" to stay, you must lay the foundation early for after life. I will illustrate: If a farmer
wishes to build a good and lasting wishes to build a good and lasting
fence of boards and wire, does he begin
by digging the post-holes? No; he must get a good ready-clear off the, proposed line, put up stakes, select and char the posts, match his boards to save
waste, and then proceed with the work, waste, and then proceed with the work,
being careful to have the last material being careful to have the last and labor as good as the first.
If the individual wishes to begin a successful life, I say, first clear off the line of life; set up your stakes or guides, and then work and live along that line, during storm and sunshine, prosperity and misfortune, knowing that your success in life is not measured by dollars only. Ask yourself these questions: If living on a farm, are you making the best use of your part of the world? Do you try to make farming what it should be-the most desirable calling on earth? Do you try to have a pleasant bome? Does the appearance of your premises encourage your brother farmers to slick up their surroundings? How about that old, rotten, two-wire fence along the front, and the openings where gates might be? The sprouts and extra branches in the orchard? Is the door-yard unfenced and without orna-mentation-strewn with as much or more rubbish than any other lot on the farm?
Now, as we stumble over a pretty good cultivator, we inquire about the lister, new mowing machine, rake and hay-gatherer it was so easy to buy and will be so hard to pay for when you sell your corn and baled hay. Where are they? No doubt you hope to meet them again. They may be weather beaten and some parts missing or broken, but you can tinker the
when you are reay to use them.
My farmer friend, if this is a true picture of your homestead, you are not "getting there," if I am the judge-not if you own the farm! The "get there" man lives next neighbor. His fences are in good condition, gates in their places, orchard pruned and protected, lawn sodded and set with evergreens and other shrubs, his implements are in the dry, tools in the tool-house, wood in the wood-shed, corn in the crib, and find the gentleman and his family at ending the farmers' institute or visitng his up-to-date neighbors, listening while they open the gates and giv him the benefit of their experience. The "get there" man is unlike the railroad train-he is never behind, but may be a little ahead. If you are an re competent to fill any position yo can get.
I feel timid about giving advice or judging for others, yet I say that success, though hard to catch, should, when reached, endure to the end of life You may make a good sale of land or ive stock, yet if the proceeds are not well invested and re-invested to the and of your business life, you have not fully "got there."
The individual, as he passes the active period of life, should be able to good; have have done the world some things; let me enjoy life while I live I wish the fellow that takes my place at least equal success in 'getting

The Genuine "Brown's Bronohial Troches" are sold only in boxes. They are wonderfully effective for Coughs, Hoarseness or Irritation of the Throat caused by

Southdown Sheep Breeders Serene. From the following letter that has een sent to the members and patrons of the American Southdown Associaon, sheep breeders have less reason to be dispirited than those engaged in raring other breeds
Nearly enough entries have been received
if Volume VI. of the Record. If you wish orame further registry in this volume, applications should be sent at once. Notwithstanding the depression of the
sheep industry, the registration of Southsheep industry, the registration of Southceeded any previous year.
Wherever the Southdown has been introduced, to be bred as a distinct breed or for muttonizing other breeds, it has given the
greatest satisfaction. Its unexcelled mutgreatest satisiaction. Its unexcelled mut-
ton, its hardiness and the certainty with
which it impresses all of it which it impresses all of its good qualities wherever used, will increase the demand as
its superiority is made known. No other its superiority is made known. No other
breed of sheep has as bright a prospect for breed of sheep has as bright a prospect for
usefulness and as a money-maker for the breeder.
Springfield, Ill. JNo. G. Springer,
Secretary

Quarter-Oenténnial Program State Board

## of Agrioulture

The twenty-fifth annual meeting of the Kansas State Board of Agriculture will be held in Representative hall, Topeka, January 8, 1896, at 4 o'clock p. m., and continue in session three days, or until the business requiring attention shall be disposed of.

Wednesday, January 8, 1896.

## Roll call

Report of Committee on Credentials. Reports of offcers.
Reports of committees.
The following topics will be taken up and onsidered, as near as mas be, in the order
which they are given, and that ample time may be had for discoussion papers will be limited to twenty-five minutes, except
as otherwise directed by the meeting. Paas otherwise directed by the meting. Pa
perd will be subject to pertinent discussion, and delegates are expected to prepare for these discussions.
there will be a large number, will, as here-
tofore, also have the privilege of particiofore, also have the privilege of partici-
pating in the discussions, and are invited
avenina session-7:30 o'cloc
Address of welcome, Governor E. Adarill.
Respo
Response, the President, Thos. M. Pot "Corn and Some of Its Assistants," Pres
dent Geo. E. Morrow, Oklahoma Agricultural college. "Importance of a Deep Water Harbor on "Popular Education in Europe," Chan cellor F. H. Snow, State University

## THURSDAY, JANUARY 9.

"Spraying Orchards," Prof. E. A. Pop

> eno

## H.

"Ticks and Topeka. of Texas Fever," Albert Dean, United
City. Afternoon session-1:30 o'clook.
"Kaffir Corn, or the Non-Saccharine Sor ghums as Grain and Forage Plants," W "Trials, and Pleasures of th
Breeder," T. A. Hubbard, Rome.
"A "As
Futur
City.
"Ou
"Oity. W. W. Tough, Kansa
Our Wheat," from the standpoint
miller and shipper, P. G. Noel, Topeka.
EVENING SESBION-7:30 O'CLOOK
"Bee-Keeping for the Farmer and Fruit-
Grower,"'Emerson T. Abbott, St. Joseph, Growe
Mo
"Ka
"Kansas-Its Farmers and Prosperity,'
x-Lieutenaat Governor A. J. Felt, Atchi ex-L.
son.
".
"Sanitation for Farm Homes," Dr. Deb
Friday, January
MORNING (IRRIGATORS') SESSION-9:30 'clock.

## "How We Irriga

## Perry, Engieerood

"The Underflow, as Related to Irrigation
Development," H. V. Hinckley, Topess "Pumping Equipment for Irrigation," E. B. Cowgill, Topeks. "The Work of the State Board of Irrigation," Secreta

## Irlgation. <br> Election of officers an- $1: 300^{\prime}$ 'Lo <br> Our Cattle Industry members.

Allen, Kansas City and Its Future," $L$. "Scrub Cattle vs. Thoroughbreds in the
Feed-Lot," Prof. C. C. Georgeson, State Agricultural college. Only the Best Pays Best' and Sells Best," W. A. Harris, Linwood. "Observations of Foreign Agriculture,"
President Geo. T. Fairchild, State Agricultural college.
"The Farmer's Hope," Miss Ruth Tipton Stokes, State Agricultural college
An Address- expected)
An Address-(expected), ex-Secretary of
Agriculture, Norman J. Colman, St. Louis,
Mo. Agricu
Mo.
other meetings.
The State Poultry Association, the State Swine Breeders' Association, and the Imalso hold their regular annual meetings during the same week as the meeting of the State Board of Agriculture.
All railroad lines hate rates.
All railroad lines have granted a rate of one fare and one-third for round trip tick ets ior anthese meetings from an points also Kansas City and St. Joseph Mo., on the certificate plan (provided 100 or more tickets are sold), and tickets will be sold January 6 and 7 , good for return, including January 11, 1896. To secure the benefit of these reduced rates the purchas
ers of tickets will pay full fare coming, and ers of tickets will pay full fare coming, and
take certificate from the ticket agent that they have done so; this certiflicate when
theuntersigned by F. D. Coburn, Secretary countersigned by F. D. Coburn, Secretary
of the State Board of Agriculture, will en of the State Board of Agriculture, will en-
title the original purchaser to a return ticket at a one-third fare. Do not fail to secure the certificate when purchasing a ticket. Hotel rates.
The best hotels in Topeka have made low
prices for those who attend these meetings. The National, Copeland and Throop have each offered an open rate of $\$ 2$ per day;
the Chesterfiel, 81.00 ; the Dutton, 81.50
and 81.25 ; the Fifth Avenue, 81.25 and $\$ 1$, and $\$ 1.25$; the Flifth Avenue, $\$ 1.25$ and $\$ 1$,
and Commercial, $\$ 1$.

## SPECIFIC FOR SCROFULA.

Since childhood, I have been afflicted with scrofulous boils and sores, which caused me terrible suffering. Physicians were unable
 under their care At length, I began to take

## AYER'S

Sarsaparilla, and very soon grew bethalf a dozen bottles half a dozen bottles cured, so that I have not had a boil or pimple on any part of my body for the last twelve years. I can cordially recommend Ayer's Sarsaparilla as the very best blood-purifier in existence."-G. T. Reinhart,
Myersville, Texas.

## AYER'S Samparaitic <br> Ayer's Cherry Pectoral cures Coughs and Colds

## Points in Fertilization

Whether any one now living in Kanas will see the soil in any part of the State reduced to such condition that it may be said of it that its chier value is Is a place to put rer liliers, ore whor its native fertility will endure working as a mine during the life of the present generation, and still retain sumficient ertility to produce fair crops, may not reached. But certain it is that every reached. But certain to the older mine may be worked out. The older portions of this and other countries
have long since learned that renewal of some of the elements of fertility is necessary. Some portions or Kansas have shown the poll Experience of a Pennsylvania larmer is shown in the following, from Emil Ulrich, of Stroudsburg, Pa.:
"Quite often I have heard the remark made by farmers, who are con-
sidered progressive farmers, that sidered progressive farmers, that "fertilizers don't pay;" they had tried them and did not see them do any good. There may be some truth in their statements; either they used some complete fertilizer, which, in reality, did not deserve the name of fertilizer, or they used phosphate pure did not need phosphoric acid, but needed potash or ammonia in some form.

Thanks to the vigilance of our experiment stations and the bulletins issued by them, showing the actual value and contents of the different brands of fertilizers, spurious mixtures cannot be saddled so easily any more on the unsuspecting buyer, but many instances have come under my observation where so-called phosphates were used, showing no effect whatever on the crop. It was not the fault of the phosphate, but the fault of the man who gave either the land or the plants something that was not needed. Phos
ash and phosphoric acid, in given quan tities.
"There is one way in which the farmer cannot go amiss, and that is by green manuring, i. e., raising a crop of clover, either common red clover or Mammoth clover, and plowing under such crop. Clover, which draws its nitrogen from the air, thus enriching the land, may be called a fertilizer in itself, yet, although we have here the nitrogen necessary for the succeeding crop, the potash and phosphoric acid ought to be supplied in addition.
"There is another point to be considered. Some farmers are under the impression that one bag ( 200 pounds) of fertilizer ought to accomplish won ders. They do not show any kind of liberality to their land, yet they expect the land to treat them liberally. There has to be an outlay of cash, certainly, for as it may appear in the start, will pay handsomely, if, with a little brain work and study, the farmer purchases and gives to the land what actually is needed. Light soils are, as - ficient in potash. This potash can be supplied in the shape of ashes or potash salts. Ashes may be good enough, available potash they contain, besides the expense of hauling so many loads, which consumes time and labor. Potash salts in the form of kainit or of muriate of potash are reliable, and the application to the land requires less given quantity, phosphate, and pergiven quantity, phosphate, and per-
haps some lime, where such is needed, a good stand of clover can be relied upon almost any where.
"When this foundation is laid into the soil it is easy to build upon it and the result will be a paying crop, provided all other conditions are normal. However, it must not be inferred that, after a good start has been made in the way mentioned, the good work ought to rest. It must be kept up. and the wetter we feed our land the better it
wepay us. The words, 'farming will repay us. The words, 'farming
don't pay,' would then not be heard so don't pay,' would
often any more."

## The Stock Interest.

A Steer-F'eeding Experiment. Desiring a definite and practical test as to the value and usefulness of ground linseed cake as a means of fattening cattle, Mr. L. L. Roby, of Topeka, Kas., made a test feed experiment to feeding in general, and to more firmly establish several important facts about the great value of ground linseed cake as a sure, quick, oafe, cheap and health-
ful feed for cattle while being fattened for market.
In order to make the test feed as nearly as possible like the general run of Western feeding, the cattle selected three-year-old steers, which had been roughed through the summer and fall, just previous to being bought for this purpose. They were purchased at the tened were sold there, Armour \& Company being the buyers.
The lot was an open one, except for a small sideless shed in one corner, tect the feed troughs in stormy weather. In the lot were open feed troughs, a small hay rack and a large water fresh water, to which the cattle had access at all times.
At the first the feed was about eighteen pounds of crushed corn and four head. The third day this was not all eaten, and was cut down to fourteen pounds of corn and four pounds of
ground linseed cake per head. On the ninth day the desired amount and proper proportions were reached, and were made during the test. On the were made during the test. On the
ninth day the feed was mixed, half crushed corn and half ground linseed meal, and averaged twenty-three
pounds per head. On stormy days this quantity was increased from a pound to a pound and a hall per day. On
warm days they did not get over twen-ty-one and a half to twenty-two pounds per head per day. In this way the av-
erage feed per head was twenty-three pounds per day. The feed was carefully weighed at each feeding. In adition to this they wera given plenty prairie hay for roughness. They excepting stormy days, they seldom ate over three or four pounds of hay per head.
The test lasted seventy-five days, seventy-seven days being the time consumed from buying to selling, the first and last of which no feeding was done. It was the original intention to feed for ninety days, but unfortunately the mall lot became so extremely muddy that the test could not be fairly
conducted longer in it, and there was no other suitable lot to be found in the neighborhood. When bought the cattle weighed 10,340 pounds, or an average of 862 pounds per head. After seventy-five days eeding they weighed 14,950 pounds, an was 410 1,246 per head. The gain wounds pounds, an average of 385 pounds per head for the time, or 5.12
pounds per head each day. Not being properly handled in shipping, the loss by shrinkage was somewhat greater than it should have been. After being in the cars and pen at stock yards for about nineteen hours, without food or water, the shrinkage was 710 pounds. This left a net selling weight of 14,240 pounds. The absolute gain from buying to selling, covering the two unfavorable circumstances, was four and one-third pounds per head per day. When sold these cattle brought 40 cents per hundred pounds more than cattle of the same weight, on the same yards, the same day.
Experienced feeders say it is imposn full feed cattle any length of time less trouble from sickness and overeating. In this test not a sign of beginning could be discovered from cially remarkable when one considers that the cattle were put on full feed immediately, and that the ration contained at least three times as much ground linseed cake as the most daring
This experiment was made at itime when cattle and all kinds of feed were at their highest prices for several years. Ground linseed meal costs about one-third more per ton than corn per three times as rapidly as corn slone would have done, when fed pound for pound. To dove, when led pound for of mest from corn bran chop amount of meat would corn, bran, chop or othe and would havecost at least one-half to two-thirds more than this feed cost. In figuring the cost of feeding the feeder must take into account the actual cost of his feed, the interest on the time his money is invested in feed sickness on a long feed, and the com parative healthfulness of each feed.
In this test some young pigs were put into the lot and allowed to follow They made remarkable growth, the gain in them being proportionately feed there is less for the hog than in other feeds, and consequently the proportion is about one hog to one steer This feeding in the hog is clear gain established several new points in feed-
ing regarding ground linseed meal ing regarding ground linseed meal which he thus summarizes:
Makes meat quickly.
Makes meat quickly
Mak
feed.
Mak
Makes more meat than other feeds. Mich is worth much in the meat hog, and worth infinitely more to the person who eats it.
Makes a loose hid
and the best possible general appear
Makes meat that sells for more
money than animals fed on other feeds. You can feed, without danger, as much of it as the animal will eat. The more you feed the more meat you get is feed, and not a medicine.
It contains three times as much nourishment as corn, and does not cos
much more than corn. Therefore it is cheaper than corn.

## Twenty Years' Experienoe,

 Editor Kansas Farmer:-I noticed n Kansas Farmer an inquiry concerning the value of cane and alifalta or hogs. As for alifalia 1 cannot speak, but cane I have fed, and I think it one the best of feeds. I have never fed it exclusively, nor do I recommend an excessive ration for hogs. The only time for such is when you can't help yourself. Of course, the object of hograising is financial gain, and the chespness of the feed, considering the growth and gain, is to be the first consideration. I have raised hogs on my der most all circumstances, both in eastern and central Kansas, and will say that plenty of grain and plenty of greention.
Now for my way, after twenty years or more of study: First, the sow; lengthy body, broad across the hips, deep through body, not too leggy. Boar, same breed, but more on the round order, but be careful not to get your hogs too much on the chunky chunky, sen your hogs become too medium boar. Never go to the ex tremes on the male's side, nor to the chunky order on female's side. Have good lots and enough good pasture to keep them in a good healthy condition lasts cheapest pasture, for the time the middle of April until about middle of June, but if you plant a patch of cane that will be ready to feed then, plow up your oats and sow rye. Sow about the 10th of August, then the rye will do to turn on about the 10th of September. One acre will pasture which three sows and their litters, That is the number my sows generally raise. In breeding sows, let them have but one good service. There is where most men make a mistake. They turn s sow with s boar and lesve her there a day or two, or probably until she coes out of heat. Result is weak pigs and few of them. The way I breed is to have my pigs come about the first of March. By so doing, the sows wil ring another litter about the first of September. My March pige will be fat before cold weather. My fall pigs wil e old enough to stand the winter; also o fatten for June market.
Make your pasture joining your lote r pens-(I say lots because pens mean lieve in One hog or 1 do not in a pen, but ang be may be kept in a pen, but a number of hogs should ave room enough so that will keep thing you do in the morning is to turn hem out. Then in an hour or two them in and fasten them and give them some grain or swill. Hogs to run in a pasture all day will tramp out and kill pasture than thay a
Close attention and regular feeding and watering will go farther towards success than all the feeds and breed in the world administered in a haphazard way. Remember, a hog is an nimal, and not merely a hog, as a good many think. Give them good shelter and good clean feeding places.
I am now feeding my hogs Kaffir corn in connection with Indian corn. At first they did not seem to relish it, but before a week they preferred it.
I feed the heads unthreshed, and I never had the hogs to do better. My May pigs will average 250 pounds, and they had no grain until middle of August-nothing but grass and water. I will emphasize the water, for that is the essential thing. Never neglect the water. Think, can you, yourself, relthem clean water and plenty of it. It is cheap.
While I have my feet wet, I will give you my method of watering: Have barrel to mix your water and milk swill your hogs they will drink it, for if you take a pail of milk and give it to a dozen or so hogs, they will rush in and the biggest hog will get the milk. Then you go and get a couple of pails
of water and pour in, and they will turn up their noses at you, as much as to say, "haven't you even hog sense?"

NervoFw poverished blood because no nerves,
being fed by the blood, are not properly
nourished. The true way to cure nerHousness is to purify the blood by "I have taken Hood's Sarsaparills and it has built me up increased my appetite
and acomplished what I desired. My rugged, but her hailth is good since she began using Hood's Sarsaparilla." Jorn
L. PINGREE, 172 Hayden Row, Hopkin Hood's

Sarsaparilla
The One True Blood Purifier. \$1; 6 for $\$ 5$.
Hood's Pllls are mild and effective. 25 c.
Thirty-four Poland-Ohinas Sold for $\$ 4,243$, Owing to a variety of causes, the prevalence of disease being a leading his season been, in many instances, omewhat discouraging. The results omewhat discouraging. cording to the Ine Stock Indicator report, of the Midway herd of Poland-Chinas, of which wry herd of Poland- H. Andrews, of Kearney, Neb., is the proprietor, which was held on December 12, by Col. F. M. Woods, come, however, like a gleam of sun-
shine in a clouded sky. It was attended y a very large number of breeders rom all parts of the country, and in addition, while the offering consisted of only forty sows, over sixty bids were aled by letter or telegram with the auctioneer. As the sale is one of the memorable ones in Poland-China cirles, we herewith give the details as to the disposition of thirty-four head:


These figures are very gratifying, being only comparable to those obtained at the dispersion sale of Mr. T. uary, 1893, when sixty-five females sveraged $\$ 121.79$ and two males sver aged $\$ 160$. The average of the thirtyour head above given is $\$ 125.38$.
The Midway sale furnishes a lesson to those who are wise enough to heed there is always room at the top. The sows in the offering were by such noted sires as George Wilkes, Guy Wilkes Equality, Square Tecumseh, Chief Equality, Square Tecumseh, Chief
Tecumseh 2d, Victor, etc., and were bred to Chief Tecumseh 2d, except in the case of his own gilts, which were bred to N. B. Tecumseh. The prices secured indicate the confidence which the purchasers feel in pure-bred swine, and those purchasers being leading breeders, who give their best thought to the subject, are, therefore, best entitled to have an opinion. They not only have an opinion, which is very favorable and encouraging to the industry, but they are ready to back this opinion with their means; and, money that talks." The splendid sver age made at the Midway sale should age made at the midway sale should afford a fresh stimulus to enterprising breeders, and spur them on to fresh
efforts to secure the best and to bring efforts to secure the best and to bring their herds up to the highest possible degree of excellence, in the full conidence that the cream in pure-bred
swine is always rich and remunerative.

## cultur Jrrigation.

"THE 2 KRIGATION WITH STORM WATERS. By Hon. Geo. M. Munger, of Eureka, Kas., read be-
fore the annual meeting of Kanase State Hortioultural Soclety.
(Continued from last week.)
After all, this question of whether or not $1 t$ will pay, is the vital one to be considered. It hardly seems prudent to assert that corn at 15 cents per
bushel, or wheat at 40 cents, will pay bushel, or wheat at 40 cents, will pay for or warrant the installation of an irrigation as an aid to horticulture, there seems to be small hazard in recommending it. Should a man obtain by irrigation a yield of 100 bushels of corn per acre, and then get 15 or 20 cents per bushel for it, he could not be said to be making headway rapidly, at least, but if a man has a bearing orchard that is yielding an occasional crop of from fifty to one hundred bushels per acre, and out of that one-half to three-fourths must class as seconds or culls, and by irrigating that orchard he can increase the same fruit so that it all grade "fancy" without any culls, it is easy to see that at any prices for
fruits that have been known to prevail this man could easily afford to expend a very considerable amount per acre to install his irrigation. Then should it so be that in place of an occasional crop, the irrigation will produce for him regular annual crops of this same class of fruit, it will require no bookkeeper to discover that it is profitable.
If the water running down the Kaw should be applied to the potato crop that is so successfully grown along its fertile bottom lands, and should the result be to double the yield, it would not be necessary, ordinarily, to ask if it paid. Those suppositious advantages are shown by the experience of irrigators to be quite within bounds ant
This autumn apples were sent from the Grand valley, in Colorado, to show what irrigation can do and actually does there, and the Wagners weighe ourteen ounces and Rome Beauty fif teen ounces. More than this, it is posiittle ned of sorting as ererything littie need of sorting, as everything practically nil.
The question is asked, "Is the quality of apples and other fruits grown under irrigation equal to that grown under natural conditions?" The answer to that question is, when you select fruit to eat, do you prefer the stunted, gnarly specimen, or the well-grown perfect one? If you had your choice of beeves for slaughter, would you take the stunted specimen that the feeder would reject or the well-fatted animal? It is the invariable rule that the fullgrown, well-developed specimens are the bast in every way, whether beef, apples or fifferences be fact romais that the differences between a large, fine and well-developed apple and the reverse is mainly water. Plants of all kinds can only grow and thrive with an adequate supply of water, as the re microscopical, and in leeng if all plants, these elves invisible sman roots are themondition condition requires that all their food of getting sustenance, of getting sustenance being possible to their Pater to do their best, not only in plenty but at all imes, and is as necessary to best development as it is to the fattening
steer, the difference being that the steer can call attention to his wants and enforce attention while the plant will suffer in silence.
Here is a quotation from the Denver Field and Farm of late date: "The poorest apple crop in Colorado this year is that from the Stark Brothers' dry orchard, in Arapahoe county. The yield from nearly ninety acres of nine-year-old trees is but 850 barrels of marketable apples. It is time for the Stark Brothers to begin the realization that apples cannot be grown without irrigation in Colorado."
A paper read by Mrs. A. B. Clark, of Independence, Kas., hefore the Cherryvale Farmers' Institute, February 21,
1895, makes some statements regard-
ing yields of some commercial orchards, from which the following are selected. It the Wellhouse orcharas, she reports, an average of over 820 per racre yearly

for the whole fourteen years." Of the orchard of J. H. Hillis, of Gentry | orchard of J. H. Hillis, of Gentry |
| :--- |
| county, Missouri, she reports, " $\$ 66.66 \frac{}{8}$ | per acre yearly-for ten straight per ac

President W. B. Felton, of the State Horticultural Society of Colorado, re ports, "five acres in winter apples mostly Ben Davis), $\$ 1,155$ per acre. Two exceptional yields were reported
in the same paper, but the conditions in the same pap
A Mr. Shropshire, living in Colorado, owning a small orchard, was offered $\$ 800$ per acre for it, and an swered that he made thas much annu-
lly from it. Messrs. Tibbetts \& Sons, ally from it. Messrs. Tibbetts \& Sons, having a 100-hundred acre orchard near Grand Junction, in the Grand valley, were offered and refused $\$ 40,000$ in
money for it, or $\$ 30,000$ for a choice forty money for it, or $\$ 30,000$ for a choice forty acres of it. These are all young orchards. Statements like these should call the attention of the Kansas fruit grower to the thought that there is something he has not yet discovered in fruit-growing. It is not very difficult to show that
sively water.
Sub-irrigation has been discussed more or less in the public prints, and in some cases with considerable vehe mence. It is sufficient to say that ac cording to government reports on the ubject the practice has been thor oughly tested in southern California by ruit-growers and condemned. The Utah Experiment Station has also re cently issued a report on the subject and the following is an extract from the summary: "The experiment covers ten trials, and in every trial but ne the surface irrigation gave the highest yields. The system is so ex could ever be applied to general farming."
The quantity of water required is an mportant part of the subject, and as bearing on that point, the following oxtract from an editorial in the Greeley duty of water and its results over the areas, is of interest: "Whereas the Larimer county ditch has just half as many acres under cultivation n Weld county as has canal No. 2, it as much wheat, about one-tenth the number of bushels of oats, and less than one-sixth the number of sacks of potatoes. It takes water to grow crops, and other things being equal-that is, with the same cultivation and the same character of soil-the greater the waer supply, up to the maximum quanter supply, up to the maximum quanbigger the yields and the more profit to the farmer."
This differ.
This difference in yields is so great hat it is no wonder the editor reaches conclusion as read.
There is water enough that falls on eastern Kansas and that runs off to the sea each year to irrigate an enormous proportion of the irrigable land, and it may be doubted if any present live to ee the demand for it so great as to it is possible and not uncommon to obtain a paying product under dry farming in the region, irrigation will provide for those seasons and parts o seasons when the natural rainfall is insufficient for the greatest and best
results; and more than that, it is an results; and more than that, it is an
insurance against failures in all seasons.
I am now confronted with an opinion on the profits of irrigation with storm waters by a very high authority, viz.,
Prof. F. H. Newell, of the United States Geological Survey. In a paper read before the Texas Irrigation Association, recently, Mr. Newell says: "I am still far from confident as to the present practicability ingeneral of this
method of development." He also method of development." He also irrigation is alone valuable in the arid or semi-arid portions of the State. Perhaps the greatest benefit will come through the construction of irrigation works, not with the intention of using them at all times, but rather as an in surance against the deleterious effects
of occasional droughts." In spite of


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cient and cheapest irrigation pumping machinery, write for catalogue of Centrifugal and Triplex Pumps, Engines, Boilers, 717-726

IRVIN VAN WIE,

Salt and Milk.
the doubts of Mr. Newell, we have the testimony before cited in this paper of the long-continued use of the system ial ind and with remarkably benel with a class of products that must mee he competition of the world's markets. Even now, Kansas farmers and South ern cotton planters are engaged in an unequal struggle against this most ormidable competition.
India has approximately one-half the area of the United States, exclusive of Alaska, and about four times the population. This indicates a density o population about eight times that of his country, and yet wo find in its country making rapid strides in its graphical and climatic conditions are not widely varying from ours, being ocated between the 8 th and 36 th degrees of north latitude. It has, as has his country, great range in its rainfall, sarying from almost rainless ss in Arizona, to the greatest rainfall known in the entire world, viz, st Khessays in the entire world, viz., at raissaya, given by Haswell as 610 inches.
The English government has ex pended in irrigation works of all classes an amount variously estimated but well up in the hundreds of milions of dollars, with the result of not only paying dividends on the money invested that are satisfactory, but with great profit and advantage to the people, besides the vastly more important conslaera tion of having puta period to the fre quently recurring famines that were formerly
country.
Finer fruits, grains, vegetables and animals never grew than have been always grown in Kansas whenever and wherever the rainfall has been abundant and well distributed. To say that finer fruits, grains, vegetables and ani mals never grew than are always grown in Kanses, that is to say, to place the products of this State at the very top of the ladder, requires but the application of well-proved and demonstrated practices in the older countries of the werld. Irrigation knows no method of placing water on land and adapsted to the needs as the rainfall in its natural way. And there is nothing left but to follow the examples of those people in other parts of the world to wrest from nature the boundless prosperity that a beneficent providence has placed within our reach. But above and beyond al considerations of material prosperity is to be considered the demands o y its enirumancharacta thriftles man cannot be of the greatest use to himself or to his country. A high standard of manhood is more to be de sired than material prosperity, but the two must go hand in hand.

## Important to Breeders

Every one interested in improved tock should have the Breeder's Gazette, of Chicago, as well as the Kansas FARMER, which we furnish for the price of one-both papers one year for only (\$2) two dollars; or we will supply he National Stockman and Farmer, of Pittsburgh, Pa. (the best general farm and stock journal in this country, price
$\$ 1.50$, and the FARMER, for $\$ 1.50$. 81.50 ), and the FARMER, for $\$ 1.50$.
Send for sample copies to the paper direct, and save money and get a big benefit by sending your subscription to Kansas Farmer, Topeka, Kas. No ford at this low price to be without this great trio of farm magazines.

Recent experimenting to ascertain whether the giving of salt to dairy cows has any direct bearing upon the supply of milk showed conclusively that it is very expensive to negleet that humane duty. Three cows were during the last half of the period during milk was weighed twice daily. The cows were then given four ounces each daily, and after that their capacty was again allowed to develop, because of the salt, and it was found that the increase for the half month was 100 pounds of milk. A constant aupply of resh water is just as important.

The movement started a few weeks ago t Utica, N. Y., to raise $\$ 50,000$ to conduct an aggresive warfare against the sale and to secure needed liglation ageesinst these fraud products at the hands of hese fraud products at the hands of A good deal of money has slready been goodied of a plan of ubscribed, and a pran on ranged along proper and legitimate lines. To uch ultimate outcome of the reposed in the ultimatice the Herald attributes the rise in the price Herald attributes the rise in the price of cheese to its effect. It says: "There is no doubt whatever that the action of the pure cheese and butter committee of Utica has been one of the main factors in the advance of 18 cents that was appointed she sale of was appointed. The sale of so many goods at interior points to go West, at prices above those ranging in New York, has fully warranted the advance in that city, and it has been largely the result of the action of the Utica Board's committee. If that action had not been taken, it is not probable that cent of what they now are."

Dr. Shields, an eminent physician of Ten nessee, says: "I regard Ayer's Sarsapa-
rilla as the best blood-medicine on earth and I know of many wonderful cures effected by its use." Physicians all over the and have made similar statements.

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What you want is the through car seria the Union Pacific and Chicago \& Alton railroads, which is unexcelled by any other ine. Magnificent Pullman sleepers, dining cars andchair cars, run through daily with out change, Denver to Chicago via Kansa City.
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## IRRIGATION.

COUGHS AND COLDS


BROWN OOUNTT FARMERS' INSTITUTE.
The fourteenth annual meeting of the Brown County Farmers' Institute was held, last week, on Thursday, Friday and Saturday, at Hiawatha, Kas Notwithstanding the weather was de cidedly wintry, the attendance during the session demonstrated that the farm ers of old Brown county were alive to the best interests of modern agriculture and the welfare of
After the annual address of President Samuel Detwiller, "Subsoiling" was taken up, and the several reports were greatly in favor of subsoiling. Plats of ground side by side showed larger yields in every instance where the subsoll plow had been used.
"Preparing Soil for Wheat," was taken up by Mc. J. D. Hardy, who presented a carefully-prepared paper sentereon, which brought out a diversity of opinions on the merits of shallow or ordinarily deep plowing other than by subsoiling. To the listener sitting in judgment it was apparent that the season, character of the soil and the condition of the ground, as well as the kind of seed, had much to do with the outcome, and that deep plowing usually brought larger yields.
The question, "Why Follow Corn With Oats and Then Wheat?" was President Fairchild, of the State AgriPresident Fairchild, of the State Agri-
cultural college, among other things, cuitural college, among other things, better seed-bed could be made for the wheat, and it gave the farmer an opportunity to get the wheat in early avoided a rank growth of weeds.
avoided a rank growth weeds
The subject, "Care of Wheat After it Has Been Grown," was taken up by William Haffiner, who advocated cutting before dead ripe, carefully shock-
ing, and then stacking and allowing to remain in stack four to six weeks before threshing. Some favored shocks containing twenty to twenty-four sheaves, while others favored stacking direct from the reaper, and others threshing from the shock. However diversified were the opinions, take it one year with another, as was brough out, over the wheat-growing world shocking and stacking prove the safest and more profitable.

Thursday evening session was taken up by President Fairchild, on "Bene fits to the Farmer Resulting From the Agricultural College." He gave a suc cinct history of the college since its founding, in 1862, and stated that it now had the largest attendance of any agricultural college in the world. Over 600 students are in attendance and receiving the benefits of an equipment, both mechanical and practical, which makes it the most thorough possible and qualifies the student for the duties resulting from the needs of the more modern agriculture.
He was followed by Prot. W. S. Williston, of the State University, of Lawrence, who presented the merits of
that institution. Such is its great popularity that about 900 students are now in attendance and receiving an education equal to that afforded at any university of the United States and at versity of the
about one-fourth the cost of the older and more eastern institutions.
Friday morning session was opened by Mr. John McCoy, on "How Shall We Provide Rough Feed for Our Stock During Both Summer and Winter?" The paper was replete with
good things, which, condensed, showed good things, which, condensed, showed
that it were best to have the stock in good growing and thrifty condition all good growing and thrifty condition an the commencement of winter. A little grain with an abundance of rough feed -hay, corn fodder and sorghum-and a shelter to be occupied at will by the
animal. Pride and a determination to be as humane with domestic animals as to one's self, with care in the selecrion of the best for breeding, always results in the largest profits and the greatest degree of sati
owner and to the buyer.
"The Farmer's Orchard," by Stephen Quaif, was an interesting paper. Among other things, he recommended an orchard of 150 to 200 trees, which
included cherry, plum and crab trees.

For summer, Red June, Red Astrachan, Early Harvest and Duchess of Oldenburg. The fall and winter varieties were numerous, and of the winter kind the Ben Davis, while not really much of an apple, was a good seller. After the long winter keepers had gone the earliest summer varieties were the most welcomed, hence the writer mentions their names.
The subjects, "Small Fruits," and 'How Shall We Select Seed to Improve the Different Kinds of Grain We Use?' brought out a long train of ideas, and demonstrated that the major portion of the Brown county farmers were on the highway of learning to find nature as she is and to take advantage of her whims for the betterment of the individual and the greater happin
the more modern husbandman.
The session of Friday afternoon was opened by Col. D. R. Anthony, of Leavenworth, on "The Best Way to Utilize the Fodder Products of the Farm to the Best Advantage." He believes in corn fodder. Made a success of using the corn binder. Used a shredder and secured two and a half tons of excellent fodder per acre, which the stock relish
cent.
"Th
"The Dairy Cow for This County and Her Care," was opened by Mr. E. H Keller. He advised selecting a typical cow to begin with, no matter what shelter and feed. No feed, no milk, and shelter and feed.
One of the most interesting papers of he entire institute was that by Mrs, Thomas Evans, "How Shall We Handle the Dairy Product?" It was replete
with how to make butter and cheese and contained just such practical ideas as the farmers' wives throughout the entire State are seeking to obtain. The paper will appear later on in the KANSAS FARMER
The question, "How Lessen the Burden of Farmers' Wives?" was most thoroughly gone over, and, in brief, it was suggested that every husbsnd, son and brother begin on January 1,1896 , and take ten minutes each day during the month of January and think out how many ways he can manage to assist the mother, wife or sister, and then resolve to practice what he
preaches.
The discussion on "Poultry" brought out the general conclusion that crossbreeds are more healthy than the purebreds on the farm, and that the
introduction of new-blood pure-bred cockerels each year is necessary to attain the greatest success.
Friday evening's session was opened by Prof. Mason, of the Agricultural college, on "Plant Propagation," which he illustrated by charts and diagrams. The ideas brought out during the two hours' time occupied were just such as every farmer his wife, son and daughter should be familiar with, and no Kansan is better qualified to place it before an audience than is Professor Mason. The orchardist, small fruitgrower, gardener or queen of the
household should not fail to enjoy the rich treat at any farmers' institute when the Professor lectures.
The morning session, Saturday, was opened by Mr. A. P. Browning, on Does it Pay to Sow Alfalfa in Brown
County?" His paper was one that re lated actual years of experience, and best of all, successful experience Ground should be, if possible, clear of pulverized, sowed in the spring early not pastured the first year, and better if not pastured at all but kept as hay field or meadow. Stock of all kinds, including poultry, seemed to appreciate it at all times of the year.
"How Can We Keep Our Hoge Healthy?" was entered into with a much seriousness as any subject Brown county having, in the past fow years, taken first rank in the State for
pure-bred swine, and having been during the year as thoroughiy cleaned out by disease as any equal area in the entire country, no ittle interest wa ventive fellows that a year ago advo cated "poke root powders," "Haa Remedy" and a multitude of other
sovereign and sure-cure remedies
threw up the sponge and deolared hemselves completely at sea and ready "Cattle new on the subject.
Cattle Raising ior Profit," was led by G. Y. Johnion, wh recommended getting the best that had been bred of
the best, no matter whether Shortthe best, no matter whether Anort-
horns, Herefords or the Polled Angus, horns, Herefords or the Polled Angus, but be sure to start with the breed selected, and, having once started, endeavor to improve them. He preferred the Short-horns, and from years of actual experience had made more money at a less expendia his of time, labor and feed than did his less ambitious neighbor. Feed well
and all the year study how to breed to and all the year study how to
improve the individual animal.
The afternoon session, Saturday, wa taken up in a general all-round talk, and the election of officers for the en suing year. Col. E. Harrington, o Baker, was chosen President.
Adjourned to meet in a three-days ession in the last week of December 1896.

## Gossip About Stook.

The Nebraska State Poultry Show will be held at Omaha, January 21-24, 181
C. Young, Secretary, Lincoln, Neb.
H. M. Kirkpatrick, Connors, Kansas, yandotte county, has just added lock.
ots of fine Shropshire ewes to his flock
Remember that we furnish the Breeder's aazette and the KANsAS FARMBR, both paonly $\$ 2$. A splendid business investment.
R. S. Cook, Wichita, writes that his Champion herd of Poland-Chinas never such an extra choice lot of tip-top boars for breeders as now, also choice sows bred to the best boars in the West. Bargains plen-
tiful. tiful.
D. P. Norton, proprietor of the Neosho Valley herd of' Short-horn cattle, says in a recent letter: "I never saw anything like the inquiries there have been for stock,
especially bulls and heifers. If half of them buy there will not be enough in Kan sas to go around."
The Topeka Linseed Oil Works, of To peka, extend an invitation to the visiting pekmers and stockmen, who will be in To peka next week, to call and get prices and oil cake and oil meal. The article in this week's paper gives some importsnt facts regarding linseed meal.
W. H. Wren, Marion, Kas., writes: am breeding twenty-five early, gilts and 12387, and Hadley Yet by Hadley Jr. 18814 , dam Martha Washington 8th by Longfel low, winner in class at the Columbian. priced worth the money, either singly or in priced worth the m
lots to suit buyers."
R. Scott Fisher, of Holden, Mo., report fine lot of Poland-China boars on hand that he is offering lower than he ever sold them before. Owing to a change of locaat a sacrifice, as he has no room for them in his new quarters. Any one in need of boar should write to Scott at once for de scription and prices. He has from 125 to 250 , and his stock is first-class. He contem plates having a brood sow sale in February Write him for partículars.
The Larimer-Bridgeford LiveStock Com mission Co. wishes all of its friends happy, prosperous New Year, and states that this company will make no changes
the first of the year, but will have the same competent corps of salesmen which it has had the past year, and will remain in Their office is it has occupied since 188 the second floor in the old wing, and is one of the best located offices in the Exchange. The Farmer believes that this company is one of the very bsst at the yards and recmmends the farmers and feeders of Kansas to consign to them. Mr. Larimer, the President of the company, has spent ind reater part or his and his genial qualities and wide acquaintance has brought the frm a large following in all parts of the State. The company does an exclusive live stock commission business, seeking to control busin
deserving it.

Mower Bros., Lost Springs, Kas. said: "The Berkshires we got of you last year did so well we want some more." Result, more sales to them. Don't you want some? Will sell cheap and guarantee satisfaction. Write O. P. UPDEGRAFF, Topeka, Kas.


TimTus
 Seeders, The Banta Mfg. Co. So. Bend, Ind.
Et....Etc.
Ethe

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Che fome Circle.

## "THE $y$ "

## The mattor for the Houm Cricui <br> 

"AS dAY SUCCEEDETH DAY."
With the New Year's January comes a parting of
One teading ways new glories, one away to tading
One batck to dying $\begin{gathered}\text { dreeh ablaze. }\end{gathered}$
Brisk winds from off bleak hillsides play with While mirtth and cheoer are plentiful where home And fireet content and happinees hand in hand

The reign of winter weakens as freshly passing The breath of springtime hastens to melt the
While the god of day rides higher on eaoh day's
heavenward climb.
heavenward climb
Bud and blossom take their places as the sea-
And the stream of
onward flow
And epringtime glories vanish when comes the
Anon with waving leafage appear bright tints of
Wheremerald green, $\begin{gathered}\text { fral wealth and beauty catch rare hues }\end{gathered}$
Then of rilliant banneers, float in turn, waved by
Foll soon the froat king atrolls abroad with Beckoning winter's coming onward, where it Until field and followeth, old recognize the season's an-

A robe of spotless ermine over mother earth is The streams are bound with loy chains, each hill And lays bare its head,
year dyerr oomee to find once more the old
-Selected.

NO MORE RICE-THROWING.

## An Anclent Custom No Longe in the Best Soclety.

Fashion's freaks are not Tutterably silly as hot always so nents would have as her stern oppothe whe have believe. For in throwing at weddings wes that rice an end, she sensibly signed the death varrant of a barbarous and dangerous custom. The foolish practice obtains now only among those who always will cling to a custom because it is a custom. In really fashionable sets here or abroad it has been agreed that too nuch serious damage has been done to bride and groom by the hard little grains not to make some substitute necessary.
In addition, however, to marriage bells and festive garments, some outlet seemed needful for the joyful feelings in bingland in England paper confetti are having quite a vogue. These are disks of paper, about the size of a letter wafer, variously colored and stamped in silver or gold. Armed with cornucopias full "hese, the bridesmaids salute the "happy pair" as they leave the parental It
It is easily conceivable what a pretty and effective scene could be made of this custom, especially as our weddings run nowadays to a "color." A pink
wedding, with pink cornucopias and wedding, with pink cornucopias and
pink confetti stamped in gold would infallibly have a delicious memory picfallibly have a del
ture for the guests.
ture for the guests.
The renl confetti of Italian carnival fame are little balls made of starch and water. They were so constructed as to break when thrown, and in breaking scatter the starch powder over the person whom they struck. It was often painful to get these stinging blows on cheek or neck, and, like the rice, they
are passing out of use. are passing out of use
But the paper confetti is as little likely to become really popular as the rice 10 the reason of the mess it makes when scattered over house and grounds. Crumpled paper lying about is as ugly as the aggravating rice grains crunching under the passer-by's foot. And the general run of housekeepers, whether -N . Y. Herald.
Pass It Along.
Wo must be kind to others if we'd hope for Who kiois the m
kioked by the man above.
$\qquad$
He-It makes me a better man every time I kiss you.
She-I've been hoping, dear, that you would reform.-Life.

BRIGHT AMERICAN GIRL.
She Makes a Study of How Europeans Elat Their Meals.

## Amoricans Always Call for loe Wat

 renchmen Are Sticklers for Styl solld Food.The climate, the place, the people and the language may change, but the table d'hote is ever the same. You have no
choice; you are literally "at the table choice; you are literally "at the table of the host," and you must take what he gives you and be thankful that hunger has given you the necessary appetite. There are two things almost in dispensable to the American tourist which are rarely furnished unless a' special order is given-the first, butter; the second, ice water. The butter, when it is secured, is always unsalted, and the water uniced, which necessitates a second order and another wait; anything out of the unusual taking time illimitable. It is said that the American is distinguished by his prompt demand for ice water, and, if this is true, of which I have no doubt, there is no adequate reason, considering the greatnumber of American tourists, why it should not be served more promptly. I have tried everything to quench the thirst of travel but nothing ut water will satisfy.
The table d'hote dinner greatly simplifies the arrangements for service. Having the same dinner to serve to each guest, there is a system and order maintained which is different from the hurry and skurry of a dinner a la carte. At Neuhausen, where the Rhine falls attract so many visitors, I was particularly struck by the silence and system of the attendance. The waituresses were attired in Swiss costume, the short bordered skirt, the black bodice, with silver chains, and filigree medalions on shoulder and neck, and the spotless white chemisette. At the beginning of each course the waitresses formed a line at the door, and then, at a signal, took their respective places, either at the head, foot or center of the long tables. They stood a few seconds, with huge trays poised in air; then a bell

thir pretty waiter.

## ounded, the tray

I haests served. mall amount of beer drunk by the bet ter class of Germans. A German without his beer had always seemed to me rather a Hamletless Hamlet, but, I am told, and observation bears out the assertion, that the better class of Germans do not drink beer. On the Rhine boats beer is not served in the firstclass saloons, and in the great garden at Baden, where the open-air concerts take place and which is the great place of resort, very little beer is served, the Rhine wines, while the Frenchman takes his inevitable cognac and coffee a sip of the cognac, then one of the cof fee, then both poured together and drunk being the approved method
Somebody has called Scotland the country of two jams," orange mar malade and some other preserve mak ing their appearance at every meal with startling regularity. Switzer land might be termed the country of honey. On every breakfast and lunch and. If the mweotening process begun:

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

## Royal Baking <br> al Powder ABSOLUTELY PURE

in Scotland is continued in Italy and France, my bad temper will no longer be a source of anxiety to my friends and prayerful meditation to myself. One can always tell the nationality one's neighbor at these tables d'hote by what he takes to drink. The Amer can always has his ice water, the Ger man his Rhine wine, the Englislman his dark, heavy wine, when he can get , which tastes like half-fermented inegar, and the frenchman his cham pagne or his cognac.
And the customs are so different in the manner of eating and drinking. here is a profound satisfaction in the meal itself to the Germans and Swiss, ho eat, oblivious of the rise and fall of empires, duels and death. The in a hurry to catch a train, and they usually are; the Frenchman eats more uslowly, with more attention to details, slowly, with more attention to details,
attentive service, etiquette, etc., while the Englishman resembles the German in the solidity if his food and the way he swallows it.-N. Y. Recorder

## FOR YOUNG WIVES.

advioes Whioh, if Heeded, Will Lesse the Friction of Married Life. Some excellent advice to a young to preserve of an earnest exhortation to family matters, says Princess.
Always remember that what yo earn about your husband's family is o be kept to yourself; that when you married him and took his name you became one of the family, and the little rouble, the little skeleton, is not to be discussed with the members of the amily in which you were born. To your sister it may mean nothing tha some trouble has come to your hus band's brother. You may tell it to her in secrecy, and it may seem of so littl importance that she will repeat it to her sister-in-law, and gradually wha was meant to be kept quiet is told all ound the neighborhood. The art o keeping to yourself what you hear on ach sile or the house is one that you must cultivate, for it means the keep ing of peace. Sureiy, you would no wish to hurt your husband, and yet you will do it if you cannot keep quiet When you enter his mother's house, anything that is told to you in confi dence must be forgotten when you wave it, unless, indeed, it is discussed with your husband, and the same rule will apply to your own family. Don't imagine that every little frown, every ittle disagreeable word is meant fo you, and do not retail to your husband anything unpleasant that may have happened when you were visiting at his mother's house. Think that she is your mother, too, and give her the priv lege of speaking to you as your mothe oes. I know it isi't always easy to have fault found whth one when one is rying to do one's best, but think ove what is said, if there is anything help ul in it. It is in the woman's powe o make or mar the sanctity of mar riage by the manner in which she ac cepts its responsibilities. It is as du o the earnest endeavors of a good wife hat many a husband has been re claimed or prevented from leading the downward path, 2s, unfortunately, it is that carelessness or indiliference neglect from the "weaker half" in physical strength has weakened her power and made her influence useless

## Now style of Coret

The latest ideas in the way of stays re those which lace up in front instead of the back. They are said to be much etter for a weak back, and also hav the advantage of making the waist loak much smaller than the old style.

In cases where dandruff, scalp diseases alling and igrayness of the hair appear, $d$ not neglect them, but apply a proper re
edy and tonic like Hall's Hair Renewer.

BABY'S OWN SEAT.

(ous Mother Utllized an Empty Whoden Box.
Babies a year old enjoy a little sea their own fully as well as the older babies, for whom one can buy a suita bly-sized rocking-chair
I made a seat for my baby, and it was the envy of all the youngsters in the neighborhood. I took a wooden

box, such as salmon cans are packed in bout sixteen inches long, ten inche dide and a foot deep; took off one side rom the s the inside four inche cover board, sawed off to fit, as a seat I padded the seat, back and sides with cotton, and covered the whole with cretonne, tacking it on with bras headed tacks, end also tacked on a lit le valence to the front edge of the sea to hang to the flor. The bottom was eft on the box, and it proved to be particularly substantial and serviceable affair.-Babyhood.

## MEDICAL

TREATMENT


 No. 4 for Catarrh. Beet of ref



QEARHART'S FAMILY KNITTER.

at 25 cents a dozen will pay one year' subscription to Farm-Poultry. If you have 50 hens and each lays one egg more because of the better
methods of care and feeding that you have learned from Farm-Poultry, the ve paid for itsel

## Farm-Poultry

is a practical guide and instructor for on poultry and eggs for market. is edited by practical poultry raisers who teach facts-not theories. It tells
how to make pullets lay early, how to how to make pullets lay early, how to
make hens lay more; how to prevent make hens lay more; how to prevent
and cure diseases of poultry, and and cure diseases of poultry, and
hundreds of things that the successful poultry raiser needs to know
poultry raiser needs to know
Price 81.00 a year; 50. for six month
Sample copy malled tor two cents.

## Che Houng Soliks.

OLD MAN JONES AND LITTLE JOE Paers as of I can Bee 'em yit-
Ole man Jones an' little Joe. Ole man Jones an' little Joe.
Joe 'ns his bov, an 'ter ai
Thow,
The old man allers stood by him. Fhe old man allers stood by him.
For whenever he quarreled or fit
With any ny the ne' ghbor boye Er cheated, tradin' ightigur boeen,
In Barlow knives, er other toys, In Barlow knives, er other toy',
An' they'd oomplain an' may he ne mean,
All the ole man maid to to Wus, lookin'
"He rieved at Joe
" better now." Many a day I вee 'em pass-
Ole man Jones an' littie JoeGoin', baokards to an' fro
Gunt Huntin' work fer Joe an' him, Fer the folke a skerse who has
Jobs to loti, an somethea they
Ud only shake their heads an Ud only shake their heads an
"That air peakyboy ur yourn,
When I hired him last year, Broke up more'n he coald ear,
Mearn."
N'en the old man's head 'ud turnN'en the old man's head ud
Mobby jeet to hide atear-, 'lo
Lookin 'ronnd at Joe he'd
'He's better now," Onot they went down to the orick-
Ole man Jones an' little Joe,
 The ole man not watchin' hlm
 The ole man he fixed a cot By the winder wher' the light
'Ud make the boy's face look bright
An' never left him day or nikht, An' never left him das or night,
An' whtn the nelghbors topped an' got
To inguirin' "How wue Joe?" To inquirin' How was Joe?
The ole man ad answer low-
Chokin' down a eob somehow Ther' they was fer days an' daye-
Ole man Jones an' littee Joe, Fever seemed to come an' go,
Ole man thinkin' more uvim, Ole man thinkin' more uv him,
Tlul one day the doctor, gays:
"Haf to give him up," Bays he-
 Ole man never said a word
But his white lips trembled some-
You'd a thoueht that Jhey wnz dambYou'd a thought that hey wnz
Fer all the neighbors ever heard,
When they luid the boy awayThought they heard the ole man man say,
When he kiesed the little brow: Never been 'em pass ag'in-
Ole man Jonea an' little Joe Fer his ole limbs tottered so That the neikhbors watohin him-
 'Bout a month the preacher come, An'the pe ple gathered in. Ever'body's lips wuz damb,
Bat the preacher's ther' that day-
Don't remember what he said; Don't remember what he said
'Bont orgot the text he readi
Recolleot he mentioned Joe Recorgot he mentioned Jo
An' the ole man rrievin. Bo
An Jist to be gin with him!
Ever'vod's eree got dim


Conicago Record.

## ANIMAL FRIENDSHIPS.

Horses, Doga, Hons and a Liones
Why it is that animals have such a great dislike for solitude and have fits of loneliness when shut up by themselves away from any other living being is something no one has been able to explain. Yet it is the fact that all animals yearn for companionship, even animals that are wild and fierce.
Remarkably strange and curious are the friendships animals form. Horses chum with cats, dogs with geese, and there are two capital stories, one of how a horse and a hen, the other of how a og and a hen became fast companions. the only ocse and the hen happened to he the only occupants of a large orchard, and got to know each other and seldom were to be found apart. The hen's favorite method of showing her friendkhip was to approach the horse with a cackle of joy and rub gently against his legs, the sagacious equine looking down upon her kindly and standing perfectly still in a well-satisfied manner as the feathered wings fluttered about his legs.
In one of the farms just over the border line of the annexed district a hen became so chummy with a valuable retriever that she actually laid her eggs and hatched her chickens in the log's kennel, and the four-footed beast enjoyed it immensely. He would guard by the hour the eggs, and later the hittle chickens, and when he had occasion to go in and out of the house he would move with the greatest of care so as not to disturb his feathered
friend. Geese and dogs are apt to be very fond of each other. There is a story of a goose that was rescued by a mastiff
from the attack of a fox and was so from the attack of a fox and was so grateful that it could not show the dog enough attention. It left all the other geese of the farmyard and stayed by the dog day and night, accompanying him daily as he wandered over the farm. When the dog fell ill the goose
votion it would have starived to death if a handful of corn had not been brought to it every day.
The friendship between the horse and the stable cat has been many times re-


GALEOPSIS AND THE KID.
marked, and it is well known that if for any reason the stable cat is killed or taken away the horse will get impatient and nervous over it.
A remarkable case is on record of one of the Derby favorites a few years ago, Galeopsis, who some months before the race got into a state of positive melancholia, which was rapidly pulling him down. Veterinarians examined him and found that his trouble was purely a nervous one, brought about through excessive loneliness. Nothing could be done for him until a shrewd stable hand happened to suggest animal companionship. A goat and a kid were intro auced into the stable with great suc cess, and the race horse picked up so that on the day of the event he was abl to make a fine showing.
An eye-witness of this describes Galeopsis' satisfaction as follows: Galeopsis seemed to take much interest in them until the goat died; but the kid remained, and the horse now vastly diverted himself by lifting the little creature up by the back of its neck with his teeth, putting it down in the manger, carefully placing it on the ground again after awhile and then repeating the operation
There was once a lioness in the Dublin zoological gardens who had arrived at an advanced age and was so feeble that she was unable to drive away the rats that used to annoy her by biting her feet. The trainer at last evolved the scheme of putting a good rat terrier into her cage. She received the dog at first with an angry growl and decided symptoms of aversion, but as soon as the little brute grabbed the first rat and shook the life out of it she began to understand what he was there for, and at once took a great fancy to him. She coaxed him to her side, put her paws around him and night after night the little terrier used to sleep close up to her, both in a state of mutual great content.-N. Y. World.
THE WISE LITTLE SCHOLAR.
The wisest of Who looks at ufe
soft blue eyes
Sho has an answer ready, with a deal of logio
And solves all knotty questions and problems as they rise.
We were learning in geography of surface elevations-
"Can you tell me what relief maps are?" I
asked the little class.
I expected only hanglng
hesitations:
But my wisest
But my wisest ittle soholar could question pass.
"If you please, sir,", sald she, joyously-with
pride her oheeks were burning To price her oheeks werre burning,
To think that she oould answer when the
"A rollef map is a majp you've been a awful time a-learning,
And you're awful tire
And you're awful tired of it, and you're so
glad to get th'oo it."

Do you know a good farm and fruit paper when you `see it? Let us send you the Rural New-Yorker this week. Send your address; no money.

The Rural New-Yorker,
409 Pearl atree,

QUITE A DIFFERENCE.

After Thompson Had Bought
e fabulist of the Chicago World ha invented a little tale of two men and a dog. Its lesson is too obvious for comment, perhaps, but cannot be learned too often. It is commended to all readers, both to those who keep dogs and to those who do not.
Johnson and Thompson were nextdoor neighbors. Johnson had a dog that barked a considerable part of every mght. Finally Thompson said to Johnson:
"Look here, Johnson, we have always been friends, and I hope you won't take oflense if I tell you that the barking of our dog is driving me and my family mad for want of sleep.
"Dear me!" said Johnson. "That's queer. I haven't noticed that Leo ever barked any to speak of.
Two or three evenings afterward Thompson came home leading a dogthe dog-by a string.
"Now, then," said he to Mrs. Thomp. son, "we will soon have a chance to sleep. I didn't like to shoot the beast while belonging to Johnson, so I have bought him. Nobody can blame us for killing our own dog. "I'll get some chloroform to-morrow."
A month passed, and Johnson and Thompson met.
"Well, Thompson, you haven't chloroformed the dog yet."
"No," said Thompson. "The truth is we have become rather fond of the fellow. He is so lively and playful."
"But doesn't his barking at night "Inoy you?"
"I haven't noticed it."
"H'm!" said Johnson. "The brute keeps us awake half the night. I don't see how you can put up with it."

Girl Bables in siclly.
In some parts of Sicily the birth of girl is looked upon as such a misfortune that a black flag is hung out the window to proclaim the sad event. Having to be supported by the family as long as they are unmarried, and being obliged to dower the bridegroom, they are looked upon as expensive lux-
uries. Boys, on the other very soon self-supporting. hand, are very soon self-supporting, and when the time comes for marrying, increase the family wealth by bringing home bride and her dot. The girls live in seclusion, are most kindly treated, posed of in marriage on a purely finanposed of in
cial basis. $\qquad$
How Sleigh Bells Are Made.
It is a mystery to many how the iron ball inside of sleigh bells gets there. in mat inside a sand core, just the shape of the inside of the bell. Then a mold is made exactly the shape of the outside of the bell. The sand core, with the jinglet inside, is placed in the mold ot the outside, and the melted metal is poured in, which fills the space between the core and the mold.

The verdict of the people is that Dr Bull's Cough Syrup is the best remedy for coughs, colds, sore throat, asthma, etc.

Heart Disease Kinit
Suddenly; but never without warning symp toms, such as Faint, Weak or Hungry Spells, Irregular or Intermittent Pulse, Fluttering or Palpitation of the Heart, Choking Sensa
tions, Shortness of Breath, Swelling of Feet and Ankles, etc.
Dr. Miles' Heart Cure, Cures Heart Disease.


Mr. Geo. L. Smith, of the Geo. L. Smith Mantel Co., Loulsville, Ky., writes Feb. 28, 1894: "For about a year I was a terrible sufferer from heart trouble, which got so bad breath. 1 had to abandon business and could hardly crawl around. My friend, Mr. Julius C. Voght, one of our leading pharmacists, asked me to try Dr. Miles' Heart Cure. the pain ceesed and palpitations entirely disappeared. I have not had the slightest trouble since, and today I am attending to business as regularly as ever."
Sold by druggists everywhere. Book on Heart and Nerves sent free. Address Dr.
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Ir. Miles' Remedies Restore Health.

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Dr. J. H. McLean's Liver and Kidney Balm.
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## ent <br> NANSAS FARMER.

ESTABLISHED IN 1863.
Published every Thursday by the
KANSAS FARMER COMPANY.
sUBSCRIPTION PRICE: ONE DOLLAR A YEAR.
 Aadaress

KANSAS FARMER CO., Topeka, Kansas.

ADVERTISING RATES.

Justice Brewer, of the United States Supreme court, formerly a Justice of the Kansas Supreme court, has been selected by President Cleveland as one of the Commissioners to ascertain the and British Guiana, and he has accepted.
The new Kansas Farmer binder is made expressly for the convenience of hose subscribers who desire to keep heir Kansas Farmers for reference. It takes but a few seconds to put the paper in it when received. The binder holds fifty-two numbers, and keeps the
papers in as nice shape as if they were papers in as nice shape as if they were
a book. The price is 25 cents, posta book. The price is 25 cents, post-
paid, or $\$ 1.10$ for the binder and the paid, or $\$ 1.10$ for the binder and the newal for one year and a new yearly subseriber, with $\$ 2$ for both, and we will send two binders, one for yourself and one for the new subscriber.

A valuable book of 300 pages, bound in cloth-covered boards, under the title, 'The Horticulturist's Blue Book," by Prof. L. H. Bailey, of Cornell University Experiment Station, has just appeared from the press of Macmillan $\&$ Co., New York. It gives in concise form thousands of points of informa tion such as are useful every day to the gardener and orchardist and can not all be remembered. It is a convenient reference book by one of the which it will ber Price 75 cents, for which it will be sent postpaid. Ad-
dress KANSAS FARMER Co., Topeka.
The probabilities are that Col. John T. Crisp, Fish Commissioner for Misan address upon fo Tope culture and deliver an address upon fish culture for a prairie country, before the quarter-centenAgriculture, January 8,9 Beate Board of Agriculture, January 8, 9 and 10 . Repeated efforts have been made to secure an answer from Mr. Crisp as to his acceptance of the invitation, but not until the official program of the meeting was published, did he respond. A few days ago a letter was received in which Secretary Coburn was notified that the chances are "nine out of ten" that Mr. Crisp will be on hand. He is an ex-Confederate, is one of the and an enthusiast on the subject of fish culture.

## A NEW DEPARTURE.

The paid subscriptions of very many of our old-time subscribers expire this month, as each will observe by notic-
ing the printed label on his copy of the FARMER. It has been our custom to promptly drop all such from our mailing list at this season of the year withrequest, "Please don't notice, but in a genera request, "Please don't cut us off now cluded to keep all names on our list or have positive orders to discontinue We prefer, however, to have our sub scribers notify us at once that they want the paper for another year and
state when they desire to pay.

## THE NEW YEAR.

As civilized peoples reckon time year why the beginning of the year should be fixed at eleven days after the earth in its journey around the sun, begins again to assume such position, as to of sunshine upon the northern and de crease it upon the southern half of the globe. In the old days, when men histories were written, it was discovered that periodically the sun moved away southward, and that as he with drew the season of warmth and of productiveness of the earth became a season of cold, with its sufferings and of hunger for those who had not provided stores from the summer's generosity. With astonishing exactness did those ancient astrologers fix the time the fact solstices. Their realization of day would the return of the king of vival of vegetation, the renewal of ment of food comport and the replenish sun worshipers of unenlightened peoples, and lead to celebrations of the beginning of the great luminary's re turn journey. Rejoicing and feasting from the most ancient times, the sea son of the winter solstice, the beginaing of the year, has been celebrated by festivities. After men began to write histories, they tried to fix upon some means of reckoning the year by phases of the moon, and later by days. But since the year corresponds neither to an exact number of lunations nor an exact number of days, the lapse of ears found the new year's day, as iods, considerably removed from pe time of the winter solstice. Attempts were made to reform the calendar and to bring the new year's day as kept by men to correspond with the actual beinning of the sun's northward move ment, with the result that, while we now know how many days, hours, minutes and seconds there are in a year we have succeeded in placing the beginning of the civil year only within about eleven days of the beginning o he year as marked hy the astronomi cal phenomenon.
But Christian nations hold their chief festivities a week earlier than are thus seven days nearer to year, and of the great annual festivitios the date was fixed by the ancient astrolgers.
The year 1895, now a part of the van ishing past, will be remembered in general as one whose return, or the sirable. Those conditions, is not de caricaturists sometimes rick with which dismissal of the old year, is this year administered with unusual gusto. May the new year bring more general prosperity, more comfort and more enjoyment, and in the hope that such will be his mission, the KANSAS FARMER welcomes the youth, 1896, and wishes every one of its readers and patrons a happy and prosperous New Year.

## NO STATE SALOONS FOR KANSAS.

## Governor Morrill open

 Pandora's box when, in an interview with a correspondent of a Kansas City paper, last week, he expressed his preference for the Gothenberg system of dealing with the liquor question. By the saloons, and its wid conducts over the common every-day saloon system of neighboring States consists in the elimination of the element of profit from the business. Very soon after ing politician appeared in print, leadthemselves so strongly in opposition that they were said, in the language of the street, to have "jumped on it with both feet."Ex-Governor St. John came next, in a big hall and a big Topeka audience, and turned against it the withering denunciation born of his eternal enmity towards the saloon in any form and the argument and irony of the most accomplished stump speaker in Kansas. Prohibitionists don't like it because it means the saloon, and liquor people
don't like it because there is no money in it for them. The Topeks Ministe rial Union took the matter up, and, without regard to party, expressed the severest censure of the positions taken by the Governor and appointed a committee to prese
With this kind of a start at Topeka the returns from the other parts of the State may be anticipated as likely to show the chief executive standing alone over the romains of a propositio wrecked by universal disapproval.

## A BIG WEEK FOR FARMERS.

The patriotic and progressive farm ers of Kansas realize the manifold ben compare notes and once a year to matters of practical interest. Those who come oncealways find that it pays. The big week this year for Kansas farmers is from January 6 to 11, inclusive, at Topeka. The particular attractions, in the order named, are as follows Monday, Kansas Swine Breeders' Asso ciation. Tuesday and Wednesday, sociation, and, beginning Wednesday evening, the quarter-centennial meeting of the Kansas State Board of Agriculture, which will continue the remainder of the week. The annual Kansas Poultry Show lasts the entire Kansas
week.
Reduced rates have been secured on Il Kansas roads on the certificate plan, rates good going January 6 and 1. It will beny time up to January wish to will be necessary for all who or fates o pay full fare to their local agent and must be receipt for the same, and this pels to presented on arrival at ToBoard of Agriculture Coburn, of the State Board of Agriculture, who will secure
We urge at one-third rates.
We urge all farmers and breeders who can spare the week, to attend all of these important meetings, as it will be time well invested. There is every indication of a large attendance, and the KANSAS FARMER office will be
glad to meet the visitors and extend a hearty welcome to the capital city.

## AGRIOULTURAL LEOTURES

The demand for intelligent discussions of the problems of soil and moisture, of cultivation and production, is rapidly increasing. It is realized that the man who keeps up with the progress of the times makes a better application of his labor and gets better returns from his fields than the plodder who mixes little thought with his efforts. The call for lectures on spey the ejects is met in several States State auspices and at State expense Such provision is to an exteat made in Kansas by the Agricultural college, which furnishes lecturers for a considerable number of farmers' institutes each year. This does not seem to entirely meet the demand and in various parts of the State the farmers are arranging with that tireless invesilustrated $R$. Hilton, for lectures the action of water in soils of various kinds and under varying conditions. Mr . Hilton's studies of these subjects and of root growths as they actually occur, together with his interesting manner of presenting them, make him a speaker for whom there is an increas ing demand. He has now engagements 24; Stockton, Rooks county 7; Mankato, Jewell county, February 11, and for Haven, Reno county, February 13 and 14.
It is to be hoped that the next Leg islature will make some provision for them available more generally than is possible under private auspices.
'Wisconsin Farmers' Institutes, a hand-book of agriculture, is a substantial book of 263 pages, giving a stenographic report of the last three day's State covers a wider range of subjects in its institutes or covers them better than does Wisconsin. To residenis of other States, Wisconsin sells these eports at 25 cents for paper covers and 40 cents for bound volumes.

## OANAIGRE IN KANSAS.

The fate of the sugar industry in Kansss seems to be sealed. But one factory-that at Fort Scott-was op-
erated in 1895 . The finest factory in the State, that at Medicine Lodge closed its operations with the season of 1894, and was sold under foreclosure sst week. This factory cost about 110,000 , and was bid in for the mortgagee at $\$ 9,480$, this being the amoun costs of fornce of the indebtedness and It is loreclosure and sale.
It is not our purpose at this time to oven enumerate the causes which have ontributed to the failure of the sugar adustry, or to discuss the condition under which, should they prevail, suc cess would be possible. More impor tant, just now, is the fact that there is ilkely to be introduced a new industry in pursuit of which the Medicine Lodge sugar mill is to play an important part. It is well known that the sources of the supplies of oak bark, used in tanning leather, are being rapidly depleted, while the demand for the tanning reagent, tannic acid, is continually increasing. For some time past the oak bark supply has been partially supplemented by a preparation made from the leaves of a tree in India This is produced by primitive methods of the natives, for, while the English purchasers of the product would gladly introduce improved machinery and scientific methods, the religious views of the natives will not permit it. The product is, therefore, limited in quantity and variable in quality.
A few years ago it was discovered which root of the canaigre plant Arizona grows wild in New Mexico and of tannic contains immense quantities per cent. of its weignstituting about 25 been operated at Phonix, Ariz., which produces about six tons of tannic soid per day from canaigre. This product 8 controlled by a syndicate in London, England.
The canaigre plant has been tried in at Garden City, and It grows well ings at Medicine Lodge are growing finely. A peculiarity of the plant is that it.grows in winter and the is entirely disappears in spring and summer, and the only question about its success in Kansas appears to about its its ability to endure our winters of perience thus far indicates that it will be hardy, at least in southern Kansas t grows well in arid regions.
The Mediciné Lodge sugar factory contains all of the machinery apperexcept some inexpensive acid plant for washing the roots, proposed to convert it into been factory, having a capacity to produce fifty tons of tannic acid per day Learning of this and desiring to maintain its control of the entire canaigre output, the London company which controls the Arizona planthas proposed to buy the Medicine Lodge sugar facory. It authorized its Ae sugar fac esentative to $p$ the American repit was supposed the price for which ell. Negotiations e property woul between the purs are now pending ish probability that they will terminate in sale.
Tannic acid. is worth about $\$ 110$ pe daily Placing will $\$ 100$, the efty ton roots mur oots is be dug at any time when th round is not frozen, and they may be oper months without loss, so that anaigre factory operates during the put multiplis by value of a day's out ut multiplied by the number of work ng days in a year, gives a very desirable Thm for the income of any community canaigre for such a factory is grow 30,000 acres. The London company 30,000 acres. The London company assert that their market will take care the price.

There is much political commotion and strong intimations of war in the South African gold country. It is said France, are displeased with possibly tude of England in that country. The
U. S. AND J. K. NAVIES. A correspondent inquires as to the number of ships in the British and in the United States navies, and the size of the largest gun in each. The pun lished statements as to lis on accoun make comparisons in methods of de scribing-especially the guns. The Scientific American gives summaries omitting ships which cannot make a least seven and one-half knots per hour and those armed with smooth-bore guns. From this $\mathbf{c o}$
dense the following:

 $\begin{array}{llll}\text { Onited Statese. } 5 & 11.9 & 7 \text { to } & 18 \\ \text { Groat Britain. } 11 & 18.43 & 8 \text { to } & 12\end{array}$ United Stateo-The six. -knot boota armed with

nited States, 12 ships with a Alt CLAsses. ${ }^{52}$. 50

 Unitod Stateg.....21 knots and under.)
Great Britain....21
 United Statos.... 14
Great Britain.... 60 ERS.

Jited statos....



TOTAL CREISERS OF ALL Classess.
United States, 31 ships with a total displace-
ment of 99,421 tons.
 ment of
ToRPED
BOAT
DEBTR
 Aroat Britain:

United States
Summing up the totals for battle ships and cruisers combined, we get: United States, 43 ships with a total displace-

These summaries leave out many vessels and armaments which were considered effective in their day, and might yet be made useful for some purposes in case of war.
The question as to size of giuns is a difficult one, from the fact that in the published tables British guns are exhibited in tons and United States guns in inches of bore. The "World Al-
manac" summarizes the British as folmanac

## 

It is currently stated that Britain has several 110 ton guns. Accoraing to the "World Almanac," fifteen-inch smooth-bore guns which are ruled out by the Screntific American. It is a remarkable scent, howevercan. It is a remarkable fact, however, that States, including the Iowa not yet completed, all carry large smooth-bore guns. The weights of United States guns are not given. It is currently reported, however, that
weighing 112 tons each.
weighing 112 tons each.
American should be by the Scientifi American should be read with allowances, for the opposition of that paper to the stand the President and Congress There appears to be an effort on the part of all such journals to belittle the part of all such journals to belittle the must be admitted, however, that our navy to unequal to that of Great Britnavy
ain.
ain. The Kansas Farmer regards a war as both unlikely and undesirable, and to be avoided if possible with honor It does not, however, look upon the conditions as such as to insure for this
country a "licking" if war comes. In country a "licking" if war comes. In
deed, the probabilities are that we
hould infliot injury much more rapidly and effectively than we should receive it, and our adversary would suffer of our making. The American people hould, and doubtless will, stand •firm From this time forward it will be known that the Monroe doctrine is to be respected by all the powers of the world, that we are not a cringing se of cowardly money sharks, and that while we will not become entangled in the affairs of the old world, we propose to have a hand in the affairs of this continent whenever our interests ar affected or our peace and safety men aced.
It is proper here to state that application to the State military departmen siled to discover more exact inform tion than here given as to the points of nquiry which called out this article Should the interest continue we ma be able to give better comparisons in the near future.

## Statistios of Railways.

The report of the Inter-State Railway Commiseion includes statistios of railways in the United States for the year ending June 30,1894 . On that date there were $178,708.55$ miles of line an increase during the year of $2,247.4$ niles. There were 1,924 separate cororevious year Ot these 945 main previous year. Of these, 945 mainubsidiary companies 98 were private roads, and 76 were not operated during the year. The movement toward consolidation on the base of mileage nvolved was greater than in the pre$1,734,64$ miles, were merged; 22 roads, representing $2,351.99$ miles, were reorganized, and 14 roads, representing $1,590.34$ miles were consolidated. The number of roads having an operated mileage of 1,000 miles or over was and these roads operated zation of tolals filing reports was 810 ,$796,473,813$ or 862,951 pr m ile of and the number of tons of freight moved was $638,186,553$; both these items show a decrease as compared with the previous year. Gross earnings were \$1,073,361,797, a decrease of 12.07 per

cent. Operating expenses were $\$ 731$, 414,322 , a decrease of 11.66 per cent. Net earnings were $\$ 341,947,475$, a decrease of $\$ 50,883,100$ from the previous year. Income from other sources was 142,816,805, when adaed to the net for fixed charges and dividends, $\$ \$ 84$,| 7or |
| :--- |
| 764,280 . Fixed charges were |
| $\$+29,008,-$ | 310 , dividends, $\$ 95,515,226$, and other payments $86,092,038$; leaving a deficit rom the operations of the year o of $\$ s, 117,745$ in the previous year. The number of employes was $779,608, \mathrm{~s}$

Ther decrease of 93,994 . The number of employes killed was 1,823 , and the
number injured was 23,422 , a marked number injured was 23,422 , a marked decrease in casualty as compared with previous years. The number of pas-
sengers killed was 324 , an increase of sengers killed was 324 , an increase of
twenty-five, and the number injured twenty-five, and the num
was 3,034 a a decrease of 195.
A preliminary income account for the year ending June 30, 1895, including the returns from 650 roads, and covering the operations of 164,529.38 report. The gross earnings of these roads for this period were $\$ 1,003,022,853$, or $\$ 6,096$ per mile, a decrease of $\$ 13$ per mile; operating expenses were $\$ 677,667$,635 , or $\$ 4,119$ per mile, a decrease of
$\$ 44$ per mile, and net earnings were $\$ 44$ per mile, and net earnings were $\$ 325,355,218$ as compared with net earnings of $\$ 320,137,670$ for the same road in the previous year, an increase of $\$ 31$ $\$ 177$ per mile, while freight receipt show a gain of $\$ 149$ per mile. Tota net earnings and income, in vere $\$ 358,412,461$. Fixed charges an ther ivid deductions were $\$ 336,301,946$ and efunds were $853,135.545$, leaving $\$ \$ 31,075030$ operations of the year dends paid by the ame roads in th previous year was $\$ 61,504,785$. Remis8ness on the part of the railways in
fling their reports continues to cause gerious delay in the compilation of
these statistics,

## Balanoed Rations for Steern.

In Bulletin No. 36 of the Maryland Experiment Station, Profs. Robert H. Miller and E. H. Brinkley give an cocount of carefully-conducted experiments to determine the relative ad rantages of well and poorly-balance owing io theirning lowing is
"The te
The results obtained during the rrst and third tests were nearly idenical in every respect, and the gains in esh and ral and the consequent in reame in value gave a prot well-balanced ration over the poorly balanced one
"The results of the second test, owIng to the class of steers used and th market value being relatively high in the rall and low in the spring, cause the leeding to bo conductal a nna ial loss, yot hio liss was loas alth the teers led the well-balanced ralion and sa to a certain degres corroopondea with the results of tests one and three. or the thre tiverage of the resulis or the three tavts (ton sters), wo had that the well-balanced ration gave a profit of $\$ 3.13$ per steer, whio the av orage for the ten steers fed the poorly balanced ration resulted in a anancial loss of $\$ 1.98$ per steer. These result re collected logether with tho woights the loer and theamo than It the food consumed by them
The experimenters offer the following conclusions, drawn from the re sults of three experiments in feeding teers for beef:
uced more duced more gain and more profit than poorly-balanced ration
. Steers fed the well-balanced ration had a higher value per pound than those fed the poorly-balanced ration.
3. That the ordinary corn and cob meal used by farmers was unproftable and needed the addition of some highly nitrogenous food, such as wheat bran and cottonseed meal to make it profitable."

## Beads It First.

Editor Kansas Farmer:-I herewith inclose 81.20 to pay one year for your valuable paper and the "People'e Atlas of the World." I am very wel pleased with your paper, in fact, I read it before I read the others. I used one of Perine's subsoil plows last season in planting trees and potatoes, and will say that in my opinion it is the plow. Lost hardly any trees and raised a fine crop of potatoes.
A. M. Reichenberger.

Andale, Sedgwick Co., Kas.
Second-Growth Sorghum Hay. Editor Kansas Farmbr:-Will you please if sorghum sowed early in spring an
mowed the last of June, and stacked a hay, then the seon end crop mowed in fail
whether the last, or second crop, would kil whether the
cattle or not?
The conditions under which secondrowth sorghum is harmful, as distinguished from those under which it is not harmful, have not been well ascertained. Some think it is harmless until frosted. We have no information of experience with secondgrowth sorghum treated as 0 . $R$ suggests. If any reader has had any lad to

## The Seoret of Good Orops.

The modern farmer is not content to use fathers. In this age of keen competition the farmer who wishes to prosper needs nd gets the most improved farming imple nents; and by reading the best agriculural literature he keeps in touch with the spirit of progress that pervades our farmin regard to the kind of seed he plants and the manner of planting it. The seeds mus be of the highest fertility and grown fro he highest cultivated and most prota V. M. Ferry \& Co., Detroit, Mich., full appreciate this fact, as is attested by their progressive business methods and the quality of the seed which they supply farmers the country. The reliabulity and fertility of their seeds are proverbial, and the largest seed business in the world has been
created by their sale. In evldence of this
arm's knowledge of the wants and require nents of planters, large and smail, is Fer y's seon Annual 10r 1806. This book of the greatest value to farmers and gar ing and farming knowledge. It containg more useful and practical information tha many text-books that are sold for a dolla or more, yet it will be mailed free to any ne sending his name and address on a postal card to the firm.

## Publishers' Paragraphs.

Pouitry-raisers will find it proftable to FABMER to reach customers.
Send 81 to this offlice for a subscription to KANsAB FABMBR one year, and upon your request we will send you a copy of "Ropp's Commercial Calculator," in paper covers.
For 15 cents extra will send it in leatherFor 15 cents
ette covers.
We have received several requests for ample copies of the New Enoland Mavainc. These have all been referred to the publishers of that journal. We do not know whether free sample copies of this
magazine are sent on application, but presume they are, and that applicants will recelve them in due course of mail.
Pleased Subscriber: "I want to be one of the Kansas FArmish family as long as I live and am able to pay for the paper. EnN. Monroe wilsen ror another year.-J. sample of many letters received dally and encourages the management to constantly maintain and improve the excellence of this journal.
One of the oldast and best known evergreen nurseries of the great West, is $10-$ cated at Evergreen, Door Co., Wisconsin, Readers of the KANSAS FARMBR, many
years ago, became acquainted with the name of Evergreen Nursery Co., of which S. E. Pinney is superintendent. The advertisement of this company will be found elsewhere in this paper, and any one order ing evergreens of this firm may rest assured they will be treated fairly by them. Write or free catalogue.
Hart Ploneer Nurseries, of Fort Scott, are a bigger institution than most people magine. Mr. W. F. Schell, the manager tive business was on the increase. The fal shipment alone amounted to seventy-eigh cars. They employ 100 men . The outlook for spring trade promises to surpass anything in the previous history of this famous Kansas nursery, and they are well prepare for any demand and will make prices and A great many men throughout the country, including plenty of really swell fellows ave got it into their heads, rightly o it isn't rightly-that there is no resuren any man should pay more than 83 to $* 5$ for a pair of shoes, and, to say the least, the idea has this foundation in reason, that ez cellent shoes are now made for \$3. To pay 88 to 812 for a pair of shoes is simply throw ing away money, and in many cases this it done to gratify a mistaken notion that non but your tavorile shoemaker is worthy to in sho machinery male is posible, as shown by the well-known W. L. Douglas \&s shoe, to produce a shoe to-day that will compare favorably in style, wearing qual-
ities and comfort with those offered at 86 , ities and comfort
$\$ 8$ and $\$ 10$ a pair.

## Farmers' Institutes.

Farmers' institutes have been appointed for the following places and dates, and will be attended by the repesentatives
Overbrook-(no date).
Peabody-January $30-31$, Profs. Mayo and Lantz.

## Edarerton-Ja <br> nd Georgeson.

 Washington-January 16-17, Prots. Mayo Randolph-January 30-81, Profs. GeorgeRan, Winchip and Will.Hutchinson-February 6-7, Profs. Popenoe and Mason. Hirchild and Prof. Mason.
Every breeder in Kansas should have the Breder's Gazette (price s2 a year) and the are furnished by us for the price of one paper, viz., ®. $^{2}$.
The Most Popular Highway of Travel,

## §orticulture.

## BEAUTIFY YOUR HOMES

The following essay was prepared by Mrs. M. J.
Coventry, of Fort 8cott, and read before the twenty-elghth annual meetting of the Karnas State
Hortlcultural Boolety, December 12, 1894, at Fort Boott.
A noted minister once said: "Flowers are the most beautiful things God ever created and forgot to put a soul into them." They make of this world a garden of Eden, so many kinds and varieties and so pleasing to the human eye. They grow everywhere, on hill or in the dell, in the woods or on the plains; even on the edge of perpetual snov, on mountain peak, we find them forcing their tiny and beautiful petals through the snow in obedience to nature's laws, and also under the direct rays of the sun.
The All-wise and Almighty Architect of the Universe, our Heavenly
Father, might have made this world less beautiful than he has, and it would, no doubt, have been endurable as a place of probation, without so much of beauty as we behold scattered every-
where with a lavish hand; without the rainbow tints and exquisite shading of colors; without the delightfully sweet perfumes and exhalations of the violet, the heliotrope, the rose, the hyacinth, and many others of the bright sisterhood of flowers. Yes, all this might have been done by the All-wise, but he knew that the exhibitions of his love would have been fewer and the incentive to look from nature up to nature's God much less, and then he could not have said: "Consider the lilies of the field, how they grow. They toil not, neither do they spin, and yet I say unto you that Solomon in all his glory was not arrayed like one of these."
Longfellow writes:
"Spake fall well in langage quaint and olden,
One who dwelleth by the castled Rhnne,
When he called the flowerg, вo blue and golden, When he called the fowers, oso blue and golden
Stars that in earth's firmanent do shine. "In all places then and in all seasons,
Flowers expand their iight and sonl-like wings,
Teaching us by most persaasive reasons Fenchers us by mose persoasive reasons
How akin they are to hamann thing;
Hot

There are but few people who do not love the flower garden. There is no work so refining and ennobling as cultivating flowers and fruit. In reading of all the lives of the great men who have ever lived, we find they spent
much time indulging those æsthetic
tastes which elevate the mind refine and purify the life and ennoble the and purify the life and ennoble the
soul, and it was in the garden sursoul, and it was in the garden surrounded by those gorgeous yet sweet refiners of nature that the thoughts
were penned that immortalized them. Evere family in Kansas, whether residing on a farm or in a village or city, siding on a farm or in a village or city,
should reserve a spot near the dwellshould reserve a spot n
ing for a flower garden.
ing for a flower garden.
must be made beautiful and, the home must be made beautiful and worthy of being cherished.
The neatest and happiest homes are those adorned with well-cultivated flowers-the handiwork of the mother, wife or daughter-and the price of
suburban residences of the cities lies suburban residences of the cities lies
in the floral beauties of their gardens. The culture of these beauties of nature Tends to virtue, refinement and intelligence, while the lack of it often leads gence, while the lack of it often leads
to vice and immorality and an estrangeto vice and immoral
ment of the family.
Every child should have a flower-bed of its own, to tend, cultivate and care for as it wishes; allowed to choose the varieties, and to pluck the blossoms at its own pleasure. With a share of these cheering and beautifying emblems of innocence and purity their souls will be taught God's love to man.
Flowers are refiners. Common dross becomes as pure gold under the genial influence of their charm, evil vanishes, good predominates, wherever their
cultivation is made manifest. They cultivation is made manifest. They
add a charm to domestic life which add a charm to domestic life which
nothing else can impart. They bring happiness and content to those possessing them and are always boundaries o civilization.
Desolation is marked by rank grasses and tangled weeds, whereas a wellkept yard, with its carefully-arranged flower-beds, is a harbinger of civilized content.
It does not require the wealth of a

Crosus nor the fortune of an Astor possess these household blessings. It is the one pleasure that is as free to
the common laborer as to the merchant prince. Make home cheerful with books and flowers and the boys and girls will want to stay there. When they have grown to maturity and are left to battie with ife's vicissitudes alone hood homes, look back to their childhood homes, and as memory travels call, the one upon which it will linger cangest, will be the little flower garden in their dear old home, the brightest vision inscribed on the tablets of memvision
ory.
Eve

Every sane mind loves the beautiful and receives pleasure from the same. We see beauty in tranquil evening closing the gates of day with tints and hlown through its portals and left his shining robes as a heritage to a gazing and admiring world. We see it further in the twinkling star, in the moonbeam, in the dewdrop, also in the eaf, the tree, the lawn, and flower. But abundant and varied as is this beauty, furnished by nature, it is not ufficient. Mornings do not last through the day, and sunsets do not
come at noon, and so we seek to supcome at noon, and so we seek to supplement nature, to add feebly where
she has omitted, and so we have painting, statuary, architecture, landseap ing, statuary, architecture, landscaping, and to these we would add the weet and pure) of tree, lawn, plant and flower, For these we plead on this occasion. Therefore, friends, we are here to plead with you and all whom we can influence, to plant trees and flowers and otherwise cultivate chool house, the church, in the village, in the city and on the farm. In pleading for this it hardly need be said that beauty is at once product and proof of civilization. Through the history of the race the highest civilizafions have produced the highest types of the beautiful. The Greeks, the most enlightened of their age, bowed at the shrine of the beautiful, and so, whether they built an altar or carved a statue, the spirit of beauty pervaded it. Today, the older and more cultivated nations, as a rule, are the leaders in the beautiful, while, on the other hand, the uncivilized and the savage show the lowest types of it. Thus beauty marks culture, whether in the nation or in the individual.
But it is objected that beauty is not bread. Granted. Not all of life's work for bread. The highest authority has said: "Man shall not live by bread alone." There is a faculty in our nature that asks for the beautiful as cerainly and unerringly as the appetite asks for bread. Animals are happy and contented when well fed and shel ered. They do not look at a picture or admire the stars. Man does both, and 80 has a new source of happiness rounde beautiful. Hence he who is sur art, has sources of enjoyment unknown to him who is shut in with the uncomely, the gross or repulsive. What is the practical conclusion of this? Simply and obviously that it is our duty to ncrease the beautiful whenever and wherever we can.
One great plea is made of not having ime. When the farmer used the wooden mold-board plow, sowed his grain by hand and reaped it with a sickle, there seemed to be some justifihinery hinery and horse-power relieve the greater burdens of the farm, there is no excuse. When an entire family interest themselves in making a home-
a home indeed-they find both time and a home indeed-they find both t
means to accomplish the work.
Again, some will ask, "Will all this pay in dollars and cents?" Yes, indeed. A residence surrounded by a lovely, well-kept lawn, on which are tall, graceful trees, will sell for hunreds of dollars more than a place which stands out alone in the glaring un, where no relief comes from the heat all the long hot summer day.
An orchard on a farm increases $\$ 1$ rees are planted, 8500 each If 500 added to the value of the farm. Then what would a farm be worth for com-
fort or pleasure without an orchard? The injunction cannot be urged too strongly upon the farmers of Kansas
to plant large orchards to plant large orchards, which will
yield a hundred-fold in health, pleasyield a hundred-fold in health, pleas-
ure and profit. And although this command has gone forth from this so ciety, and has been heeded by many Alsork is but cleverly commenced. Also large groves of forest trees
should be planted on every farm. should be planted on every farm.
Every one owning 160 acres can well spare ten or twenty acres for woodland. It would not only enhance the value of his own land but that of all the country. Suppose there were ten acres of planted and made a fine woodland. In a few years we would hear nothing more of the rain-line in Kansas. Every Kansan knows that the climate of the entire State has been characterized by no inconsiderable irregularity since its earliest settlement, and tha the greatest embarrassment of the horticulturist has always arisen from the If we may believe the testimony of the wood growth, we find that this same irregularity has marked the climate of this region for the last 150 years, and that there have been periods of drought and disaster, and also periods of remarkable fertility, before the advent of the white man, periods which have rivaled even the most productive years of late, almost reaching tropical luxuriance, and periods, too, when either drought or locust spread desolation not unlike what we remember of 1874. Such is the testimony of the forests. And as the geologist reads the history of the earth in the rocks, it is the privhistory of the vegetable growth and consequence of climate in the records of the forests.
Now, as horticulturists, it will be only an act of wisdom to accept the lesson that may be gathered from our own department of nature. In regard to Kansas, and probably the entire Missouri valley, this lesson will be of our climate for the wast know that years has been to a marked degres ir regular, we are taught that this is not exceptional, buthas characterized thie region for more than a century, at least, and to counteract the effects of climate is now and ever will be the most important and difflcult work of解e horticulturist. We need, then, to seek for the means to counteract the effects of these marked irregularities am a firm believer in the possibility of converting most of the Western plains, to the foothills of the Rocky mountains, into practical farming condition by the planting of large orchards and forests, which will help to retain the forests, which will help to retain the which carry desolation in their path.
Years ago, Spain wished to raise money for a public expenditure, and so cut away vast regions of forest timber. After that the country was visited by cyclones, droughts and torrents. If,
then, the cutting away of forests dethen, the cutting away of forests decreases the rainfall, the planting of gain is too strongly in contrast with our civilization and is at the bottom of those disasters which will result to the instigator as unfortunately as the killegg.
To you who have done so much for the State of Kansas, we need to give a vote of thanks for the work that has been done in reclaiming and beautifying the treeless plains, which once "Gre marked in the geographies as the Great American Desert." Still go on planted all along the streets and avenues of every city, around every school house and dwelling
Trees as well as flowers are objects of beauty within themselves. They by their fruit, delight us by the besuty and the fragrance of their flowers, and protect us from the fury and inclemency of the elements. Forests mitigate the heat of summer and the cold and regulate and the fury of the winds tion of the rainfall. Without the pres ent forests of the world and the

## A THOUGHT <br> THAT KILLED

A MAN
He thought that he could trifle with disease. He was run down in health felt tired and worn-out, complained of dizziness, biliousness, backaches and headaches. His liver and kidneys wer out of order. He thought to get well by dosing himself with cheap pills. And then came the ending. He fell a victim to Bright's disease! The money he ought to have invested in a safe reliable remedy went for a tombstone. The thought that killed this man

## HAS KILLED OTHERS.

Statistics show that 90 per cent. of the deaths from pneumonia, Bright's disease and similar complaints are caused from derangements of the liver and kidneys. These great organs keep the blood pure and in healthful motion. When they get out of order the blood becomes poisoned, the circuls tion impeded and the whole system speedily breaks down. It is

## A DANGEROUS IDEA

to imagine that pills can strike at the root of these diseases. It has been thoroughly proved that such remedies are worse than useless. There is only one remedy which can always be de pended upon. This remedy alone can act on the liver and kidneys when they are out of order, clear out the system and build up the health. The name of this remedy is Warner's Safe Cure It is the only standard remedy in the world for kidney and liver complaints. It is the only remedy which physicians universally prescribe. It is the only remedy that is backed by the testimony of thousands whom it has relieved and cured.
There is nothing else that can take its place.
fossilized remains of those of past ages, the busy wheel of the thousand industries of civilization would soon stop, and the earth become a dreary waste The cultivation of trees is to-day the paramount interest of Kansas, and i this young but already great and grand State is to continue that career o growth and prosperity, that has ren dered her name a household word, and her territory a land of promise to the ceive the fostering care and aid of all her people.
I will say to you, gentlemen, go home and do your part in this direction, not only for your own home, but plead with your neighbor in behalf of this great work, and may the influence of this society be as traceable in coming years as the hand-writing on the wall.
is a constitutional
Catarri is a constitutional disease and cannot be cured by local applications. edy; it cures catarrh because it purifies the blood.
Hood's Pilis are purely vegetable and do not pu
druggists.
A Look Through South Missouri for Four Oents.
The Kansas City, Fort Scott \& Memphis Railroad Company has just issued a mag nificent book of sixty or more photo-en graved views of varied scenery in south

## Entomology.

## The Harlequin Oabbage Bug.

## by prof. e. A. popenoz, gTA

Ediror Kassas $\overline{\text { FARMER }}$-A hard-backed bug, oval shaped, almost black, with dark red spots, ruined my cabbage this year. It
is not as large as the bug which works on pumpkins, being about one-fourth to three
eighths inch long. They destroyed the eighths inch long. They destroyed the by sapping the life out of them. The cabdries up. What is the name of the bug an how can it be destroyed

The description above given leaves no doubt that the insect referred to by Mr. Jones is the harlequin cabbage bug (Murgantia histrionica), a species of Southern origin, but now of wide dis ribution, feeding throughout its range upon plants of the mustard family in general. Among cultivated plants, the cabbage, the horseradish, the turnip and the radish all suffer from its attacks, though from the nature of the case the insect is best known as a cabbage pest.
It is a true bug, taking only liquid ood, which it obtains by piercing the plant tissues with its sucking, beakike mouth parts. The result of its attacks, then, is not the bodily destruction of the plant, but the extraction of the sap to such a degree that the plant withers and dies. The bugs of the last brood in summer mature in the fall and pass the winter as adults, hiding under rubbish or in cloddy soil, n the vicinity of the plants last attacked. Those that survive make their way in spring to the plants that serve them as food, feeding upon wild cresses and the like if their garden favorites are not at hand. The eggs are laid upon the leaves, and the young on hatching begin to suck the sap, atd by eason of their numbers are even more formidable than the adults. They grow rapidly and several broods mature before the end of the season.
Like their relative, the common squash bug, they are somewhat difficult to destroy by the application of the insucking insects. Owing to of other sucking insects. Owing to the strucmode of feeding, it is, of course, futile to apply Paris green and similar poioo apply Paris green and similar poiont forbid. In fact, no insecticide, plied to the plant under attere, ap plied to the plant under abtack, has boen found of great avail. The buge live under, as wes, and many individuals may thus escape even the most careful applicaescape
tion
Where the insect is especially de structive it will be found best to rely upon general methods. One of these is inggested by the habits of the insec in hibernation. To destroy the adult in general may earlier be disposed so as to attract the insects into these winas to attract the insects into these win with the torpid bugs in hiding. In early spring iteis highly important to take care of the relatively few adults These should be captured and destroyed by all possible means. Effective trap are made by placing over the ground fresh leaves of the cabbage or turnip these being examined daily and the attracted insects destroyed. During the night the bugs like to shelter un der boards or shingles placed between the plants on which they feed. Such traps should be examined early in the morning before the lodgers take their way to the plants. Persistent use greatly reduced number in a greatly reduced number of the have a very appreciable effect in th diminution of the destructive army in summer. When the plants are suffer ing from a serious attack of this insect advantage may be taken of its habit o dropping to the ground when disturbed and large numbers may be destroyed by shaking the plant over a shallow pan in which a nittie coal oil, say quarter of an inch in depth, is contained. The bugs dropping into this liquid do not recover
I have noted an apparent preference of the insect for the leaves of the horse-
row of this plant may prove a lure, and furnish a better opportunity the use of the coal oil pan, as

A January thaw is always more produc tive of colds and coughs than a January freeze. Then is the time Ayer's Cherry Pectoral is needed and proves so extremely efficacious. Ask your druggist for it, and | emcac |
| :--- |
| also |
| all. |

## In the Dairy.

Conduoted by A. B. Jonns, of Oakland Dair
Farm. Address all communications Topeka, Kas.

## Exile of St. Lambert.

Word has been received that this great sire of great performing cows is dead. The immediate cause of death is not stated, but the post-mortem howed a quantity of wire nails in his stomach, and as he was as vigorous and apparently in as perfect health as ever until about a week before he died, the conclusion is irresistible th
was no constitutional defect.
Exile was born May 15, 1883, and was, therefore, an old bull by comparison, although a few others have lived to a greater age. He was royally descended, tracing twice (once each through sire and dam) to Stoke Pogis 3d, four times (twice each through sire and dam) to Victor Hugo, and three times to imported Pauline. Outside of these great Jersey fountains there are only three names in his tabulated pedgree, and these are the imported cows Ophelia (12 $\frac{1}{2}$ per cent.), Topsy of St. Lambert ( $6 \frac{t}{}$ per cent.) and Lydie ( $6 t$ per cent.) This gave him a great pre ponderance of highly prepotent dairy blood and serves to explain why he has to his credit forty-nine daughters that have tested from fourteen pounds two ounces to thirty-two pounds seven ounces of butter in seven days.
Individually Exile of St. Lambert is described as having been a grand spec imen of the highest type of a Jersey bull. He was large, weighing over 1,600 pounds, had enormous strength and vigor, yet finely finished, beautifully proportioned and possessed of al the fancy points, such as stylish head, dished face, very broad between the eyes, masculine, but not coarse, large prominent eyes, golden skin, soft, yet thick and pliable, covered with a good coat of fine, silky hair, high crest hest and arched, remarkably deep and a perfectly magnificent tail.
Although he has left behind him a numerous progeny, as in addition to his tested daughters, his sons are also to be considered, for these have proven their ability by adding a large number roll of honor, the death of this bul cannot be considered otherwise than as an irreparable loss to the dairy inter ests of the country in general, to Jersey nterests in particular, and especiall o his late owner, Mr. P. J. Cogswell of Rochester, N. Y.

The Woman Dairy Commissioner
Mrs. Anns D. Clemmer, the Dairy Conmissioner of the State of Colorado, is an energetic woman, who has done much for the West and the cause of a brosder womanhood. She was born in Danbury, Conn., but her husband's Colorsdo. an only daughter, Mrs. Clemmer had never known a hardship until called upon to face pioneer life in Colorado. o-day she is a handsome, self-reliant, progressive woman, whose gray eyes the duties of life unflinchingly. She is Her home is at Boulder, where, besides a pleasant home, she has a Jersey herd, and with her own hands makes 200 pounds of butter a month. Two miles from Boulder she has a hay ranch of 160 acres and 1,000 chickens, to all o as well as gives her personal attentio Denver.

A butter factory in Australia advertises for a creamery manager at $£ 2$ a week, who is required to "manage the
creamery, drive the engine, cart the
cream every day to the factory (five miles away), find his own cart and horse, and keep the horse in feed, work not buagy when required, and when not busy

## Dairy Notes.

Milk is now successfully sterilized by subjecting it to an alternate electric current.
It will not require much study to show many farmers that they could improve their system of feeding cows.
Cows do not milk any easier with wet hands than with dry hands. If the hould be washed off and dried with clean rag.
Hoard says that it sounds passing trange in these days of cheap oats, cheap corn and cheap barley, and butter at a good price, to hear iarmers talking about selling their grain. There are three pounds of butter in a bushel of oats or corn or barley when fed to a good butter-produoing cow. Can a man sell his grain at any better price, in these times, than to turn it into butter?
How many farmers outside of regular dairymen ever take time to test their cows and calculate whether or not they are profitable and paying for their keep? One good cow should furnish milk and butter bountifully for any ordinary sized family, but how often do we see three or four head kept for this purpose, and then the wants of the family are not at all times supplied. This is a leak that should be stopped the coming year if you want to in crease your prosperity.
The general opinion is that feed was the cause of the bad flavor so generally season is in November. Now that cattle are in the barn, the flavor has imnot the only one. When cold weather comes on the dull butter-maker is al ways caught. He does not take time by the forelock and see that he is pre pared to secure the proper ripening o ing ripeness, but he warms it up and oes through the old motions and fail n flavor. Frosty feed is one bad thing, the cows pinched with cold is another another bad thing, and all three make a bad mess of it.
I find Salvation Oil the best cure for Zimmerman, Wetheredville, Md.

At the Minnesota dairy meeting, out of the twenty-four papers on the program, six are by ladies. This is a encouraged by other States at thei yearly conventions.

A Young Lady With Rheumatism. Her name is Miss E. M. Stockwell, and
she lives at Allston, Mass. She wrote a htter es at Allston, Mass. She wrote atter in which she states: "I was trouand was unsble to walk. After spplying Tuttle's Family Elixir a fow times Ibecame antirely well I can recommend it as the best liniment I have ever seen." Why not read the advertisement of Tuttle's Elixir in another column?

## Long Life

to leather: Vacuum Leather Oil. Get a can at a harness- or shoe-store, 25 c a hair-pint to $\$ 1.25$ a gailo both free; use enough to find out; f you don't like it, take the can back and get the whole of your money.
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everywhere-handy cans. hinery also If yy cans. Best oif for farm maVACUUM OIL COMPANY

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TO DESTROY GOPHERS.
reader inquires how to prepare the phosphorized grain for the destruction of gophers, to which allusion was made in this paper in a quotation from a recent publication of the United States Department of Agricalture Bulletin No. 5 of the Division of Ornithology and Mammalogy United States Department of Agriculture has the following on this point:
"Phosphorus has been used extensively in California, Washington and Oregon in destroying ground squirrels, and to a less extent for pocket gophers. Mr. Alen Chatilu, or Charter Oak, Iowa, states that he has entirely exterminated the gophers from his own and several neiguboring farms by as follows: Put a stick of phosphorus as a fillows: Put a stick of phosphorus in a five-gallon can with a little cold water; next pour in hot water, not quite boiling, until the can is half full, and stir with a stick. When the phosphorus is melted add, while the water is stirred constantly, two pounds of sugar, and immediately after the sugar is dissolved thicken to a stiff batter with corn meal and flour, half and half. Now add wheat and stir until stiff. While adding the wheat add also fif teen to twenty drops of oil of rhodium. The wheat will soak up all the water in the mass and it will become quite hard. Keep in a cool place. Small pieces may be chipped off as needed. Gophers may get too little strychnine to kill them, but no matter how small a piece of phosphorus they get it will inally prove fatal. Dlg down to an open hole, drop in a small piece, put a clod to keep the hole from filling, and cover over with loose dirt to excluad the light. It should be borne in mind dhat phosphorus is one of the most deady responsible for recommending the held responsible for recommending the use of this or any other poison on the farm."
It should be remembered that it may ignite spontaneously when exposed to the air and can be kept safely only under water. It should be handled with tongs. If taken in the hands it is liable to take fire and melt while it burns, making it impossible to avoid terrible burns.
In a letter so the editor of the KANSAS Farmer, C. Hart Merriam, Chier of the Division of Ornithology and Mammalogy, strongly recommends the use of bisulphide of carbon rather than phosphorus. Following are directions for using this agent of destruction:
"Open the gopher hole where one of the freshest hills has been thrown out. Pour two tablepoonsfuls of bisulphide on a bunch of cotton, rags, tow, waste, or any such material and push it well down into the hole; then close the pening. The bisulphide quickly forms heavy suffocating gas that flows down the hole and along the galleries. Wherever it overtakes the gopher he is quickly killed. Tre whole operation is perfectly simple and easy. The only difficulty arises frum the length of the tunnels, which is so great that the animals may be beyond reach of the gas. Hence it is sometimes necessary to open the tunnel and introduce the bisulphide at two or more places. The gas has a vile odor. It should be carefully kept from fire, as it is highly inflammable and explosive; otherwise no danger attends its use.'
Fifty-two creameries are reported in Washington, and the daily output of the different creameries and factories throughout the State is 7,000 pounds of butter and about 2,400 pounds of cheese and an annual production of butter of $2,190,000$ pounds, of cheese 547,000 pounds, and an annual consumption of hutter of $2,920,000$ pounds, and of cheese 730,000 pounds. In commenting on this showing, the Pacific Farmer says: "The State of Washington has made a striking advance in the production of butter since 1891, when the annual production was only 5 per cent. of the amount consumed, while the figures given above indicate that this percentage has been raised until it stands in 1895 at over 70 per cent."

At the Iowa dairy convention, Dairy Commissioner W. K. Boardman re-
not labored in vain. The sale of oleo has been reduced 80 per cent. and tha of butter increased 25 per cent. He where about twenty million markets, butter were consumad in the cities of 10,000 inhabitants or more. He urged changes in the laws which would compel creameries to use correct pipettes for the as Babcock bottles, and provide for the control of milk delivered to tions. It seems the present law only refers to the milk sold for consumption. He also wanted to see the filled cheese controlled and the cheese stamped. He urged an increase in cheese factories in Iowa.

## Oriticises Orummer

Editor Kansas Farmer:-We are in receipt of your journal of December nearly two pages of your paner covering nearly two pages of your paper, in ref rence thog chole a. sense or scientific principles hoo scription th diphelpe once to ter ing ho wh ence to feeding hogs, when first put up are about the only things he come near telling the bruth about, and we knowing just as much about it as he nowing just as
It has long been a demonstrated fact that hog cholera is created by a germ, and the recent invertigations by our and the recent investigations by our
government have proven this fact beyond all doubt; but no one apparently has gone any further than to state it is a germ.
The wri
artiter of the article admits of the germ, but does not offer any prac created by decomposition fostered and veated by decomposition, and wher germs. Farmers lose their hogs from germs. Farmers lose their hogs from premises. Until the farmer realizes that these are the causes of germs and germ life, there will never be any let-up in hog cholera. For instance take a house infected with smallpox, a germ. You may let the house stay for six monthe after the patient dies or is removed, and any person moving in there will take the smallpox, unless the house is relieved of the germs. Hog cholera is a germ. How farmers expect to get rid of hog cholera without disinfecting and ridding their farms of the germ, as any board of health would do in the case of small pox? There is no use of putting hogs where there are germs; it is only a up, enter the system of the other herd up, enter the system of the other herd
ond the same havoc with them as they did with the others. That has been going on for years, and will go on until the farmers know how to destroy the germs.
Farmers, to keep their hogs in good ondition, must use a food to keep them in good health, so they can ward off dsease.
As for the idea of inoculating hogs with cholera, while they are well, to prevent them from taking it later, weriest rot. If the is prevalent, is the veriest rot. If typhoid fever was prevalent in an adjacent town, you might
as well inoculate your family with the as well inoculate your family with the from taking it, should it become epidemic at your place of abode, and claim they would be a healthier family (if they would be a healthier family (if
they did not die in the meantime) when they did not die in the meantime) when through than before. Th
longs to the back century.
Your the back century.
your valued paper conting page 8 of your valued paper contains more solid sense on treating the disease. and is more to the point, than the whole ar-
ticle written by E. N. Crummer. The account of how the disease proceeds is interesting, but the proper means of stopping the disease is more important to the farmer than all the other combined.
How in the name of goodness can you cure hog cholera by feeding, alone, when the germ is under his feet, when, haling it or the day, he is either inThe only or feeding it in his mouth? he only absolute way to prevent hog set by proper disinfection und to ho feet by proper disinfection, and to feed the hog certain foods along with his until you have extermingted the cition, Chicago, Ill. A. ALLARDYCE

## 

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 nominally $20 \mathrm{a210;}$ white, 6 cars $221 / \mathrm{c}$.
Oats were soarce and held higher, but buyOats were soarce and held higher, but buy
ers were not disposed to advance bids. Reoelpts
ago, 7 cars.

## ago, 7 ca Sales

Sales by sample on track, Kansas Clity: No
2 mixed, 2 oars choice $164 / \mathrm{c}, 1$ car
 grade, nominally 130: No. 2 whiter 1 car 17\%/ Hay-Receipts. 37 cars: market steady. Tim-

 ©4.00.
$\begin{gathered}\text { St. Louls Grain. } \\ \text { Sx. Lours, Deo. } \\ \text { 80.-Recelpts, wheat, } 28,000\end{gathered}$ bu.: last year, 8,756 : corn, 64,690 bu.; last year,
62,25 ; 62,245; oats, 38,000 bu. last year, 26,400 bu;
shipments, wheat, 11,850 bu.: corn, 15,540 bu; oats, 19,435 bu. Closing prices: Wheat-Cash,
650; December, $55 \% \mathrm{c}$; May, $591 / \mathrm{co}$. Corn-Cash, 23\%0; December, 23/4c: January, 23\%@23\%o; Kansas City Produce KANsAs CTIT. Dec. 30 - Butter-Creamery,
separator, $221 / 50$ firsts, $181 / 2$ Q $191 / \mathrm{c}$ : dairy, fancy, 14@150: store packed, fresh, 10ฏ120: off grades, 80: country roll, fancy, 13【150; cholee, 10$\rceil 120$.
Eggs-Strictly fresh candled stock, 170 per Eggs-Strictiy fresh
doz. cold storage, 13c
 blers, $61 / 90 ;$ ducks, $71 / 980$; geese, fat, 60;
plgeons, 600 per doz.
 : pe slow, but generally, none. The market waady. The following are
sleat


$$
\begin{aligned}
& \text { (Spectal report farnished by KNOLLIN \& } \\
& \text { BOOTH, Kange City stock yards.) } \\
& \text { Receipts, } 1,292 \text { head. The gharp adyance last }
\end{aligned}
$$ Horses-Receipts, since Saturday, 151;

shipped Saturday, 49. The week's auction sale of horses and mules began to-day and
there was a fair attendance of buyers. The supply of horses is quite large and buyers were rather slow in
about steady.

Chicago LIve stook.
CHIOAGO, Dec. 30.-Cattle-Receipts, 12,000;
market active and 100 higher: fair to best market active and 10 chigher fair to best
beeves, $83.40 @ 4.75$; stockers and feeders. 82.40 @3.65; mixed cows and bulls, $81.45<2 \mathrm{a}$ 60: Texas
steers, 82.7033 .75 . Hogs-Receipts, 24,$000 ;$ market averaged 50
higher; closed weak; light, $88.45 @ 8.70 ;$ rough packing, 83.40 33.45 . mixed and butchers, $83.45 \bigcirc$ 3.721/: heavy pa
pigs, $82.60 \overline{3} 3.60$.

Sheep-Receipts, 14,000; market steady; na-

St. Louls Llve Stook.
ST. Lours, Dec. 30 . - Cattle-Receipts, 3,$500 ;$ Texas steers, \&2.00@3.75. Texas steers,
Hogs-Recits, $4,0.0$; market 50 higher;
heavy, $83.35 @ 3.65 ;$ mixed, $8320 @ 3.60 ; \mathrm{Hght}, 83.30$ heavy, $83.35 @ 3.63$; mixed, $8320 @ 3.60$; 1ight, 83.30
@3.60.
Sheep-Receipts, 1,003; market 100 high
Chteago Graln and Provisions.


## Kansas Ciry, Dec. 30.-Elevator men made

 little effort to buy wheat to-day, and the de-mand was limited to mill orders, which were not sufficient to absorb all the offerings. Prices were quotably changed.
Receipts of wheat, to

\section*{| $\begin{array}{l}\text { Recelpts } \\ \text { ago, } \boldsymbol{\theta} \text { cars. } \\ \text { Sales we }\end{array}$ |
| :--- |}

Sales were as follows, track, Kansas City: Hard, No. 2, nominally 54c; No. 3, 5 cars 50c, cars 49c, 1 car $48 \mathrm{c}, 3$ cars 46c, 1 car 450; No. ${ }^{4}$
hard, 2 cars 40 c 1 car 38\%/c; rejected, nominally

 $511 / \mathrm{c}, 1$ ear
car $44 \mathrm{c}, 1$ car 46 o ; white spring, No. 2, 1 car
53 c.
Corn was firmly held, but sold rather slowly. Corn was firmly held, but sold rather slowly. bldding for January, and the price was ad-
vanced 1/6.
Receipts of corn here for to-day, 62 cars; a year ago, 29 cars.
Sales by sample


$$
\begin{aligned}
& \text { Kansas Clty Sheep Market. } \\
& \text { (Speolal report fornished by KNOLLIN } \\
& \text { BOOTH, Kanas City stock yards.) }
\end{aligned}
$$ week made buyers rather backward. Paying

steady values. Some asees ware ateady, one ing
stance 5 cente higher, and few sales made late stance 5 cente higher, and fow sales
were lower. General market irregalar.

## 58 lambs 30 29 29

248 fed New Moxico yearlings
89 native sheep.....
49 fed Southweetern
49 fed 10 laths.
17
17
${ }_{7}^{2}$ lamby ewee, .........
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MARKET REPORTS
Kansas City Live stook.
Kanssas CryI. Deo. 3).-Cattle-Reeipts, since Saturday, 5,782: calves, 87: shipped Sat-
urday 1,854 cattle, no calves. The market was generally steady with a preference ior
weight steers. The following are representative sales:
sHIPP

## KNOLLIN \& BOOTH,

## sheep Commission Merchants.

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Among the many plans now in use fo warming the poultry house, the heater illustrated below, supplies heat and ventilation, or a supply of fresh, warm air. Any kind of a flat top stove, or even a kerosene stove will give sufficient heat. The size of the stove should depend on the size of the house, but 40 degrees is sufficient heat. The illustration an inch deep, made of ordinary sheet iron. The box or heater is placed on small stove, or if legs are attached to each corner of the heater, a lamp may be placed under it. The cold air comes in at $A$, passes through the box, be coming heated, and emerges at the pipe B. The cold air pipe is one-half inch in diameter, and the warm air pipe one inch. The pipe A should be long enough to extend through the walls to the out-
side, so as to bring in the pure air. No

heater and ventilator. rentilators on the top of the building will be required, and the air will keep the house dry. Always bring the air in and discharge it near the roof, as the birds will not then crowd or become lame as they will when the warmth is below them.-Farm and Home.

SOME TIMELY HINTS.
Observe Them, if You Want Eggs Daring the Winter Months.

1. Get the hens into healthy growing condition, shrinking, if necessary, to remove surplus fat, or adding to, if poor. In the first instance, feed only on cooked vegetables and oats or bran; in the latter give more corn.
2. Make the ration one rich in egg materials. Let a certain per cent. of animal food, meat scraps, meat, meal, or food of this nature be given daily. One
pint to a pailful of cooked food is pint to a
3. Feed to promote health rather than destroy, and temper the quantity. A wooden pail full of cooked vegetables, or cooked clover, with two quarts of
mixed ground grain worked well into mixed ground grain worked well into the mass, is breakfast enough for 30 hens. Reduce rather than exceed this, the sole object being to satisfy the claims of hunger and promote activity. Let the night ration be not more than one quart of mixed grain (whole) to 17 hens, be so scattered about the chaff, leaves, straw or earth, that only a kernel will be found at a time. This means that the hens will scratch busily until dark, and this it is which promotes egg building. In the coldest weather, fill the crops just at night with corn, for the same reason that you fill the stove with coal-to keep warm.
4. Three or four times a week feed cooked or chopped clover with ground grain in the morning mash.
Clover, animal meat, meal or scraps, wheat, vegetables and oats, if fed as indicated to hens having comfortable pens, will insure steady egg production. -Rural World.

## How to Fatten Turkeys.

Turkeys will not fatten if confined in close coops, as they pine if deprived of fined together in a small yard for ten days they can be made quite fat in that length of time. Feed three times a day as much as they will eat, giving corn meal, ground oats, middlings and ground meal, equal parts by weight, scalded, morning and noon, and wheat and corn at night. Keep a head of cavel, ground charcoal and fresh water. A few turkeys can be fed with chickens, force them to eat.

POULTRY FOR MARKET. Some Valuable Hints for Dealers as Well There is a class interested in poultry that buys from farmers, and after dressing the poultry the carcasses are shipped to market. It is a very prof usefal in a community, being always usefal in a community, being always stock offered and save time and labor stock offered and save the farmers, as they dress and ship for the farmers, as they dress and ship some farmers, in order to secure a few cents more per pound, do not take into consideration the labor they bestow in preparing but a few fowls for shipment. A greater profit can be made in buying
aring poultry, however, if those engaged in puch business will fatten the fowls before killing. Instead of buying to-day and selling to-morrow, there should be clean quarters, with small yards attached, having feed and water troughs, and the birds fed on fattening foods, so as to increase the weight and secure a larger price per pound. In ten days or two weeks the birds will be ready for market if they are given all the food they will eat during that time. By allowing time for increasing weight it becomes an advantage to buy poor birds if they are in good condition, as the first cost is less and a greater proportionate weight can be added. Only ficient. The food will then increase the weight and the quality will be superior, as birds that are fattened in a short period of time are tender and juicy. Such a plan would rid the market of much of the inferior poultry that is usually forwarded, and as the cost of producing one pound of poultry should not exceed five cents the adoption of the method would furnish the markets with better stock and largely add to the profits of the business.Prairie Farmer.

## Wintering a Colony of Bees.

Where bees are to be wintered in a cellar, they should be taken in only set in. The first thing to look after is that the cellar have plenty of good fresh air. Many a cellar is nothing but a breeding place for disease and the foul air rinds its way into the living rooms of the family, so keep the cellar air pure and sweet. If the cellar is filled with rotting vegetables, do not expect the bees to winter well. As to the hives themselves, but little importance arises as to their arrangement in the cellar provided they are fairly warm and fresh air can get in and out of them. Set tiers as high as convenient. A grood plan of ventilation is to construct a long, hollow, square box or insert a stovepipe through the cellar wall. In either a damper may be made to turn or to be withdrawn, according
to the outside temperature. - C. R. Morts, in Farm and Home.
In breeding and raising poultry, especially for market, size shculd always be considered. Fowls are usually sold by weight.



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## THE STRAY LIST

FOR WEEK ENDING DEO. 18, 1895 Wison county-V. L. Polson, clerk. MULE-Taken up by John Miller, five miles
Monthroet of Fredonia, November 25,1895 , one black horse mule, 1 year ola, no marks or brands. .


 Lyon county
Lyon

Lyon county-C. W. Wilhite, clerk. STMER-Taken up by Henry Drier, In Center tp.;
November 30, 1885, one one-year-old Ateer, red with
some ome white spots, some white in face medium size
branded on left hip with inditinot brand; valued Coffey county-T. N. Bell, clerk.
 belly, crop off left ear, no brands; valued at 10 .
Chase county-M. K. Harman, clerk. TWO STEERRS-Taken up by Geo. C. Fills,
Toleco tp. (P. O. Cottonwood Falls), Deoember
a 1895. two red steers-one has white faee, branded
LB on lett sile and on eachhtpi the other is
mpin
 Wabaunsee county-J. R. Hepderson, clerk.
 heurbon county-G. H. Requa, clerk. SWINE-Taken up by John Smith, in Timber Hill
tp., four black ehoats, three sows and one barrow. Allen county-Jas. Wakefield, clerk. HORSE-Taken up by D. D. Sploer (P.O. Geneva) wite and right hind foot White, star in forehead,
spot on the nose, branded B on right side, shoes on

 Pottawatomie county-Frank Davis, clerk. BTEERR-Taken up by R. F. Glenn, In Grant tp.
December 9 , 8850 , one red line-back sieer, crop of FOR WEEK ENDING DEO. 25, 1895 Osage county-E. C. Murphy, clerk.
 1895, two black sows. and seven spoted plgs-one ${ }^{0} \mathrm{w}$ silt in both ears; valued at 816.60
Labette county-J. F. Thompson, clerk.

 Wilson county-V. L. Polson, clerk. MARE-Taken up by B. W. Knoles, of Burfalo,
Dacember 14, 1895 , one bay mare, 3 years old, star in
forehead. FOB WEEK ENDING JANUARY 2, 1896. Wilson county-V. L. Polson, clerk.
 Deooember 133, 1850, one dark ricron-gray mare mule
about 3 years ola; valued at 820 . Greenwood county-J. F. Hoffman, clerk. STEER-Taken up by C. H. Austin, in Shell R Rook
tp., November 4, 1895, one dun steer, Weatern brand ip., November 4, 1895, one dun steer, Western branc
oovers nearly, whole of left ste, crop of left ear;
valued attib. Cherokee county-P. M. Hunphrey, clerk. Horse-Taken up by G. B. Carlisle, one bay
horese, black mane and tali, bhod in front; valued
at Lyon county-C. W. Wilhite, clerk. HEIFER-Taken up by J. K. Peterman, in Agne
City tp., November 2, 1895 , one two-year-ola heifer
 Pottawatomie county-Frank Davis, clerk. HFIFRR-Taken up by A. F. Kolterman, In M11
Creek tp. (P. O. Onaga), December 26, 1885, one red and white two or thre- year-old helfer, no marks or
brands; valued at s14.
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