

Bull, Archibald $\mathbf{v}$.


A GROUP OF YOUNG HEREFORDS FROM SUNNY SLOPE FARM, EMPORIA, KAS.

## BREEDERS' DIRECTORY.

Oarde of four lines or less will be inserted in the
Brededers' Directory for sis per vear or 8 s.00 for sia

HORSES.

P ROSPECT FARM-CLYDESDALE STALLIONB, Write for prices of POLAND An-CHINA HOGS.
w. MoAfee, Topeka, Kas. W.

Pedigreed Holstifn- M. H. Alberty, Corerokee, V ALE sale, choice young bulle and heifers at rea sonable sale, onoice young bulle and heiferes at rea- Call on or address Thos. P. Babst,
Dover, Kas. $\mathbf{E}_{\text {wold }}^{\text {NGLISH REe }}$ RED POLLED CATTLLE AND COTS.
 Heseltine, Dorchester, Green Co., Mo.
 Registered bulls, heifers and cows at bed-rock prices.
Address D. P. Norton, Councli Grove, Kas. swine.
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CHESTER WHITES.- All recorded or eligible to tor particulars. 1 breed Red Polled cattle and have
for sale R. . . L. Leghorn colickens. Wikle Rlair,
Beulah, Crawford Co., Kas, PRINCETON HERD OF POLA PRINCETON HERD OF POLAND-CHINA SWINE
 M $\operatorname{APLE}$ GROVE HERD OF FANCY BRED PO
 FOR BALE-Duroo-Jersey pigs ; also Poland-China Bronze turkeys, Toulouse geese Pekin ducks
Barred Plymouth Rock and Brown Leghorn ohlck-
ens. Ready to ship out. J. M. Young. Liberty, Kas YOLAND-CHINAS. - Dletrich \& Gentry, Kich sows and two very trine young sows bred that the
FWIl sell chate. Breeding choolice.. Quality guaran
teed. Write or come and see us. teed. Write or come and see us.




 times prices. Also a few boars ready for service.
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EUREKA POULTRY YARDD.-L.E. Pixley, Wm
 Langshans, M.B. Turkeys and
Lit all
Egmes in season.
M. MAINS HERT OF POLAND-CHINAS.

Jap. wh IVS, oazaloosa, Ias.



R.SCOTT FISHER, HOLDEN, JohnsonCo, MO.


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 (fmesway Quality Herd Poland-Chinas.


 JAMES QUROLLO, MOSCOW, MO
 Large Berkshire Swine

cattle.
SUNNY SLOPE FARM
 4 HEREFORD © CATTLE
 ATTENTION FEEDERS 300 Head ${ }^{3} \begin{gathered}\text { and } \\ \text { jear old }\end{gathered}$ Steers
 WALTER LATIMER,Garnett, Anderson Co.,Kas. SHANNON HILL STOCK PARM.


 Choloe young bulls for sale now. Visitors welooma.
Address W. L. CHAFEKE, Manager. CATTLE AND SWINE. $A^{\text {BHLAND }}$ Oughbred Poland FARM HERM Hoge, Bhort-horn cattle




## Agricultural Alatters．

ALFALFA，OR LUOERN．
（Medicago sa
From Farmers Bulletin No．31，United States De OHEMICAL COMPOSITION． The chemical composition of aifaifa acter of the soil upon which it is gnown． This is true both in regand to minera constituents and organic compounds． Analyses of the ashes of alfalifa grown filnts，om ctayey soil with chalk，amd on very chalky soils，show the following variation in the percentages of mineral compounds：
weight of indigestible fiber．Hay made flossoms alfalifa cut about the time the first in qualiity to hay cut when the plant is in full bloom，or has begun to ripen its seed，to more than make up for the difference in bulk and welght．Analyses stations and agriculitural colleges in al parts of the country，and the chemica composition is found to vary according to the time at which the sample is cut No two samples cut from different fields， or from different parts of the ssame field where the solle are different，or where been the same，will have exactly the same chemical composition，＇though the ratio of one constituent to another may be fairly constant over wide ranges o territary．

| $\underset{\text { goil. }}{\substack{\text { Granitic }}}$ | Chalky 801 l with fints． Mine | clayey soll with chalk． | Very chalky choul． |
| :---: | :---: | :---: | :---: |
| 0.99 | 0.41 | 0.471 | 0.58 |
| 9．89 | 7.15 | 10.11 | 9.0 |
| 4.50 | 3.04 | 7.51 | 6.8 |
| 14.94 <br> 13.42 | 8.11 | ${ }_{49}^{10.66}$ | 19.71 30.19 |
| 48.42 | 29.19 | 20.60 | 26.09 |
| 6.67 ｜ | 2.90 | ．68 | 6.98 |

Acconding to Woiff，the quamity mineral matter removed from the soll by 1,000 pounids of alfalfa hay，contadn－ ng 14 per cent．of water，is as follows： Nitrogen 23.6 poundss，and mineral ash phortic acid 7.3 pounds，potiash 21.9 pounds，soda 1.5 pounds，Thme 34.9 pounids，magnesia 4.2 pounds，sulphuric acid 4.9 pounds，silica 8.2 pounds，oxide of iron
ALFALFA AS A SOIL RENOVATOR Alfalfa belongs ito that class of plants The lagumes to as nititrogen collectors． and all the clovers and their relatives belong，are able to draw mitrogen direct－ dy from the alr．The roots of the plant df examined，will be found to be covered with a great mainy small swellings on ＇tubencless，amd if sections of these tuber－ power microscope the tissues will be founid to conitain great numbers of bac terla．It is through the action of thes minute orgranisms that the planit is en abled＇bo take nititrogen didneotly from the air．Other famidies of plants，for in stance the true grasses，whilich do no have these tubercles on the roots，ar such as may be in soluble form in the soill．Hence，alfalita and ite relative are the best plants that can be grown large quantities of this most valuabl and expensive fertillizing element． By raising alfalfa the farmer not only provides an excellent quality，as wel mestic stock，butt the is at the same tim enriching his fields，and doing it with enriching his fields，and doong it with market would cost a gneat deal of
money．When this crop is plowed under or is fed to stook and the manure return ed to the ground，det supplies a large quanitity of nitrogen，which is especially valuable for small grains，grasses，an unable to acquire for themselves． The percentage of nitrogenous com pounds found in the plant varies con siderably，the maximum being in the early stages of dits growth and the min imum about the time the seed com mences to ripen．Hence，hay cut early especially before the plant begins to doom，is more nutritious，though much the plant has begun to bloom．
Below are given the analyses of alfal fa hay gnown at the Colorado station in the growth of the plantt：

## DESTROYING ALFALLFA

To ridid land of aifalifa dis sometimes tiom，of the attacks of fungue or anima parasites，or of some other cause，the ydeld per acre may．cease to reach a profitable amount．The best method
is to plow the field in midisummer，turn－ is to plow the fleld in midisummer，turn－
ing the roots up to the hot sun．Then when the leaves begin to show above the sod cross plow．These
will ordinarily be enough． method which is used in the West anid Southwest，whene irrigation is practiced is to flood the fleldis and let the water stand on＂them for several days．Alfalfa is quickly killed by excess of water in the soll．If the water is allowed to stand on the field two days dn midsummer when tt gets pretty hot duning the day
every root will be killed，and when the water has been drained off，the land will be ready to be plowed and prepared far some other crop．A catch crop should be put in at once，so as not to allow the land to remain bare，and to prevent
the leaching outt of the most valuable fertilizing elements．

ENEMIES OF ALFALFA
Weeds．－Mention has already bee worst weed which growers of alfalfe whll have to conquer，and the one which causes the greatest damage，is dodder on love vine．This weed，or at leas age，is an ampontation from Europe It was brought to this country in flax and alfalia．seed，and thas spread hroughout all sections of the Unite belongs to the morning－glory famdly elongs to the morning－glory family，
but，unlike the common weedy morn ing－glories of the flelds，it is parasitic． The stems are leafless，and look like orange or reddish－yellow threads．When ve seed of the dodder germinates，whe
young plant is able to grow for a short time upon the supply of food which has been laid up for it in the seed，but un－ less its stem can come in what it leed it will die．As soon as the youn dodider plant touches a leaf，stem，or stalk of the alfalfa it twines around it and becomes closely fastened to the
stalk by means of numerous suckers which enter the thissues of the hos＇t plant． These suckens draw out from the alfalfa all the soluble food

$$
\text { The dodder } 8
$$

ng tangled masses with its yellow fitem and the alfalfa soon becomes completel choked out．The only practicable rem－
edy after this pest has become estab－
this statement to not very well sub－ stantialted．The best method of fighting odder ds the preventive one；that is， owing nothing but pure seed．The seed of this parasite dis only about one wenty－fifth of an inch long，or not over hail as large as the alfalfa；so that If the seed is sum through a soreen，say With a mesh about as large as that used for am ondinary scneen door，the minute dodder seed will be e
from that of the alfaifa．

## rom that of the allealfa

Root rot．－In Texas and the Southern which is bellieved to be bidentical with the noot rot of coltton．A fleld which becomes infected with this disease had better be plowed under．The rot spread in widening cincles from the point of in fection at a rate of from fifty so sixty feet per season，and if it is very ba it sometimes kills out an entire fleld in
one season．A very free use of salt is
sald to kill out the disease，which is usually worst in dry seasons．Probably the best vemedy is to plant for a num－ ber of years those crops which are no
affected by this root rot，untll th ground becomes entirely free from the
spores of the fungus which causes the spores
disease．
There is another disease which has caused conslderable damage in the well understood，and is at present unde investigation by this department．It seems to follow the drigation ditche and is very probably caused by exces
ane flooding of the fields．In fits effect $t$ someading of the fields．Ine damping of of young plants in the greenhouse．The dies． gests itself is to provide thorough drain age for the fields and to irrigate less frequently．
Spot disease．－In many portions of the Eastern and Southern States the fields become infected with a leaf－spot whic ometimes causes considerable damag na renders bollt the hay and rorag of dniferior quanlt． cutting．Whenever a field of alfalfa commences to get yellow，est ther all over or in spots，颌 should be cut，for the y low color is a sure sign of disease． Amimal pests．－In the region
he Missourl，alfalfa fields ar nfested＇with gophers and ground squirrels．These eat both stem and roots，and cause great damage pests is to drown them out，or，if the land cannot be Irrigated，to poison them by dropping phosphorized grain in their burrows．

SUMMARY．

## Alfalifa s he bushel <br> the bushel．

For a hay crop，sow twenty to thirty pounds of seed per acre
For a crop of seed，sow fourteen elghteen pounds plean seed．
Sow cle
North of the latitude of Washington sow alfalfa in the spring，as soon as the ground is warm－from the middle of
April to the middle of May．Sow in drills or broadcast．
In the South and Southeast and in California sow alfalfa in spring or autumn．Sow in drins．In the South apart，and cultivate the first seaso
Do not cover the seed too deep．
Alfalfa does not attaln maturity unitil the third or fourth year；therefore，do not sow expecting to get the
sults in less than that time． Alfalfa grows best on a deep，sandy oam，underlaid by a loose and perme－ able subsonl．It will not grow il the is and must be well drained．
Alfalfa is a deep feeder．Plow the
land thoroughly；the deeper the betrer Alfalfa thrives best in soils，contain－ ing ldme，potash and magnesium． does not grow well in solls containing an excess of liron，or where lime is whol
ly absent． Cut for thay when the first flow appear．If cut in fuhl bloom，ths
will be woody and less nutritious． Cut for seed when the middle clusters seed pods are dark brown． To make alfalfa hay，cut in the fore－ noon and let it willt；then rake into wind rows．It should be cured in windrows and cocks，and stacked or put in barns
with as little handling as possible．Gireat care is required in order to get it in stack before the leaves become ory palatable and nutritious part of the hay． Cover the stacks with caps．This will prevent loss by molding when dit rains． is practiced，put water on the field be fore sowing the seed，and dmmediately after cutting each crop of hay． or sheep on alfalla，as they are Mable

## Long Life

o leather：Vacuum Leather Oil．Ge a can at a harness－or shoe－store， 25 C a
half－pint to $\$ 1.25$ a gallon；book＂How to Take Care of Leather，＂and swob both free；use enough to find out；if you don＇t like it，take the can back and get the whole of your money．
Sold only in cans，to make sure of fair deaing
everywhere－handy cans．Best oil for farm ma－ everywhere－handy cans．Best oil for farm ma－
chinery also．If you can＇t find it，write to VACUUM OIL COMPANY，Rochester，N．Y．
o bloat when th is fed green．
hem the thay，or practice solling
There is no better or cheaper way of
rowing hogs than to pasture them on alfalfa．One acre will furnish pasturage or from ten to twrenty hogs per season．
Horses can be pastured on alfalfa． Horses can be pastured on alfalfa．
There is no better hay for work animals， or for young，growing stock．
Alfalfa hay is not a complete ration． The best resulits are got by feeding it
with corn fodider，ensilage，wheat or oat straw，or roots．Alfalfa contains large amounts of protein，which goes deficient in the carbohydrates，namely， starch，fats，and cellulose or fiber．These must be added to the ration
To rid a field of alfalfa，plow in mid－ summer，turning up the roots to the hot sun．Or，if the field can be inrigated， let the water stand on it two or three
days in midsummer．This will rot the roots，and after the water has been drained off the field can be plowed．
son． than forty－elgiht hours．
Alfalfa hay，properly cured，has about
the same value as red olover hay．The yleld is much greater．It can be cut from three or four to seven or eight times in a season，and yields from a ton Ito a
ting．
Sixa

Six to ten bushels of seed is the usual yield per acre．
Keep the weeds mowed and raked off the first seaison，or they will choke cut the young alfalifa．
Sow alone，without any nunse crop．
The latter ts often just as harmful as The weeds．
Soreen alfalifa seed before sowing，to separate the dodder and other weed seedis．Dodder or love vine is the worst than cure．

Oomposition of Kaffir Oorn．
Editor Kansas Farmer：－In reply to of the Farmer for September 11，asking for a published analysis of the grain of Kaffir corn，I may say that an analysis will be found in the Second Annual Re－ port of the Kansas Experiment Sta－ thon，1889，page 116．In Bulletin 32，page ison of the composition of the grain．a different stages of growth is exhibited， and also of the fodder at the same stages．I append hereto the analysis of mature grain，and include with them， for the value of the comparison，an sorghum（which is a saccharine，white seeded sort，）and of corn－chop．It will be seen that they are ver similar in composition throughout．

 Of the value of Kaffir corn grain for is put in proper physical condition，the rather hard kernels being，to my mind not well adapted to feeding whole．Th analyses are of white Kaffir corn．W have not analyzed the red Kaffir corn ut there is no reason to suppose tha it varies from the other materially． Assistant Chemist Kansas Agricul September 16， 1895.

A person is prematurely old when baldness occurs before the forty－fifth year．Use Hall＇s Hair Renewer to keep
the scalp healthy and prevent baldness．

Show me the man who would go to ill never be admitted there．－Felthem

## Che Stock Jnterest.

THOROUGHBRED STOOK sALES. Dates claimed only for tales wh.
Occorzr 0 -Goo. w. Nall, Oaessa, Mo., Polana-







## Eye Disease in Oattle,

Editor Kansas Farmer:-Within the past three or four years there have been a number of reports from varlous por
itions of the State of a peculiar and ap tions of the State of a peculiar and ap-
parently contagious disease affecting the eyes of cattle. As these reports have year, and many inquiries regarding it a brief description of the disease, as have observed it, may not ibe amiss. The disease is what is technically
known as "keratitis contantora," or, in known as "keratitis contagiosa," or, in
common language, it is contagious in common language, it is contagious in-
flammation and ulceration of the cornea or front of the eyeball, of cattle. The during the summer months, attackin one or two animals in a bunch, and from these spreading quite rapidiy through the whole herd, rarely missing a single animal.
The first symptom noticed is a discharge of tears from the affected eye the tears running down over the face.
The eyellds become swollen, there is a blinking of the eye, and often a twitchIng of the muscles around the eye. The as shown by the blinking of the eye o a partial closure of the eyelids. The
animal often shakes its head, indicatangmal often shakes its head, Indicat-
ing the painful condition of the eye About the time that the discharge o tears is noticed, the eye becomes cloudy, if there was a growth over the front of the eyeball. There may be two spot The eye is distended and protrudes pressure of the fluid within the eyebal is so great that the eye bursts, and the
fluid escapes. Most of the cases where the eyeball bursts, go totally blind, but If the rupture is not bad some recover Many animals, while the eyes are at slight as soon as thind, but recover the sides.
The disease seems to attack young ease usually runs its course in from four to six weeks. There often remain
little spots on the eyeball, where the ul cerations were, for a long time.
The treatment of the disease is no tle difference in the raplaity of recovery between those treated and those not stages and drawing off the aqueous hu mor affords relief, but this should be the eyes twice daily with cold salt water gives some rellef. The best
method is to keep the animals from hav ing the disease by not allowing those having the disease an animal is affected it should be separated from the healthy, and kept separate until it has entirely recovered. ly, but a few go totally blind. I should estimate the number that go totall blind at baout 5 per cent., and probably 1 per cent. blind in one eye. There are
estimates only, and may not be correct.

## Veterinary Department State Agricul

Unfair to Red Polled Oattle
Editor Kansas Farmer:-In looking over he Kansas Stactive premium lis class for Red Polled cattle, whille Galloways and Polled Angus are classed and beautiful Red Polls, which are so fast coming to the front, are worthy recognition by the State Fair Assocl
ation. At the World's Fair, in Class XVI eral-purpose breeds), a Red Polled cow a heifer, 2 years old and under 3 won In Class XVIII., grand sweepstakes breeds), in aged herd Red Polls won third and fourth, and in young herd
they won second. In these classes there

Were shown Red Polls, Brown Swiss
Polled Durhams, Holstelns and Dair Short-horns
If the state Fair Association does or the or the seneral-punpose breeds, could or Red Polls, Polled Durhems Devons, the same as to does for ways and Polled Angus? The Re Polled breeders shoula, by a combined ffort, urge the state Fadr Associatio give them recognition.
Beulah Land Farm.
wIL

## Franklin Oounty Fair.

Spectal Carrespondence Kansas Farmer. The Franklin County Agricultural so lety held its twenty-ninin annual faid F Forest park, Ottawa, Kas, Septem er 17 to 20 , Inclusive. The weather crounds the finest in the State; the th hibits chotice in every respect, and the attendance, surpassing that of any other eason for years, was true cause for the management to rejofce over the final I their efforts of 1895. Of the many falrs attended by the writer so far this eason, Frankin county as successfu le of Ottawa are noted as a suce peo eople, and whenever they undertake to do anything, espectally for the public weal, their sole aim and desire is to ome out viotorious, hence the succesi of their fair.
r. As a further encourageent county Comissioners assis nually, whith is duly aunt of $\$ 200 \mathrm{a}$ Upon which is duly appreciated. xhiblt to receive attention was firs of the poultry department, whichi tha pled space near the entrance. There were 210 specimens, and all neat an omfortably arranged. This splendid isplay comes from having an organiza on in the county devoted to the devel tock, by the instrumentallty of pet

The motto of our great State is in touch with the people, and every faithful citizen knows of a tru
Another important exhiblt in Floras nall was that of the Kansas Tannery, of Lawrence, by M. C. Byrd. Here was anplayed tanned leather, robes, rugs, is the handiwork of Mr. Byrd, who is an expert in making ine goods from the raw material to the finish.
Swine husbandry is an important indion of chalce that th pays to have the best. The hibdt was larger than I have ever here tofore seen at a county fair In Kansaa, and it speaks well for the many breeders of Franklinn county. Among the exhibitors were the following: A. E. taley, of Ottawa, with Poland-Chinas prizes; $H$ Daylion \& Son ang five first with Poland-Chinas and Berksehinee curing one first, four second, ind two pecial and sweepstakes on best boar any age or breed; J. R. Killough \& Sons, of Richmond, with Poland-Chinas; Dletich \& Gentry, of Richmond, with Po-land-Chinas, getting sweepstakes on
best sow of any age or breed; S. McCullough, of Ottawa, with Berkshires Winning slx first and three second; Ed. Whinas, recelving two flrst, two Polandand one special.
In the sheep department, A. E. Car-
penter, of Wellsville, got five first and one second on Southdowns. E. S. Kirk-
patrick \& Son, of Wellsville, recelved patrick \& Son, of Wellswille, recelved
five first, four second, two sweepstakes and one special on thels Shropshites. Their flock is headed by Cyrus 30313, whose weight is 230 pounds; he is 4 years old and has headed their flock for the past three years; in this time he has takes wherever exhitilted
This firm recently purchased one of Geo. Allen's best-bred' Shropshire rams.

sood results are here shown. The association will hold a poultry and pet 1896, with F. M. Hitchcock as judge Among the exhibitors of poultry I saw . A. Mott, of Pomona; H. C. DeWitt of Ottawa; J. T. Harrah, of Pomona, carter Bros., of Lane, and A.
E. Staley, of Ottawa. Mr. Mott se 2. Staley, of Ottawa. Mr. Mott se
cured seven first, four second and thre specials. Mr. DeWitt, being superin tendent of the department, did not compete for premiums. mir. Harrah go eight first and one special, Carter Bros.
received three first, one second three specials.
The next department was farm pro ucts and machinery; a finer displa would be difflcult to find than was see semmed to vie with each other as to size and appeared to chuckle over the fact that no other State in the Union could produce such monstrositles as here seen
Corn, on every side, was stacked up ard-wood style, so large were the ears, and the samples on exhibition not "picked ears," but taken as they
happened to come in the course of gath ering. The
ire floor, in the Floral hall, and con sisted of hundreds of choice specimens large and handsome. Mr. A. Whilis was
m charge, and a more practical person n charge, and a more practical person
could not have been selected. As a rropagator and producer of reliable nurery stock, he stands second to none. uct and fruit department was on th "great big" order, and the comments thereon would fill a volume, 'the con-
sensus of opinion being that this secsensus of opinion being that the section of Kansas was a trifle better than
any other part of the West, and I am ny other part of the West, and I am
Inollned to believe that they are about night. It is a pecullarity of Kansans of the State is the best and decldedly the most productive. Kansas people can overcome difflculties quicker and easier than any other folks, hence her
prominence before the American public.

They own about seventy-five head of sheep in all. Six yearling lambs are or sale, and each of them registered.
E. S. Kirkpatrick \& Son have shown their Shropshires at three fairs thls season,
miums.
In the
In the cattle department the writer aw Short-horns, Herefords Holstelns and Jerseys. C. F. Woir ottaw and J. O. McDanield, of Wellsville showed Short-horns and the premlums Were about equally divided Wright, of Princeton, had the Herefords and received the prizes. It was a good of Richmond, showed the Holsteins 2 man by name of Lawson had the Jer sey herd.
ough \& Sonse department, J. R. Kilstallion colt, in the ring of "horses for ah purposes." This firm also captuned irst on best 100 ears of white corn, and

Dehorning--A Modern Necessity. At this season of the year, in the West, when cattie-feeding is belng carried on
so extensively, the importance of dehorning is a practical question for present consideration; therefore, we quote
the following extracts from the cataogue of A. C. Brosius, Cochranville Pa., the patentee and maker of the fa-
mous Keystone Dehorning Clippers, as shown in the illustration herewith:
Dehorning is an improvement in th spreading with great very popular an one that tries it is so well pleased with the way the cows herd together muich after the manner of a flock sheep) that they wonder how they put up with the goring and loss of calves, to as nothing of the danger of life to man mer but that we have a colt killed crippled among some of our nelghed And no one seems to be able to advance the first good reason for this risk.
"Farmer Miles, of Illinols, being asked

## Over Thirty Years Without Sickness.

Mr. H. Wettstein, a well-known, enterprising citizen of Byron, Ill. writes: "Before I paid much atten tion to regulating the bowels, hardly knew a well day; but since I learned the evil re ults of constipation AYER'S

Pills, I have not had one day's sicknes for over thirty years that did not read yield to this remedy. My wife had been, previ ous to our marriage, an invalid for years. She had a prejudice against eathartics, but as soon as she began to use Ayer's Pills her health was restored."

To Restore Strength, take Ayer's Sarapaprilla

What do you think of dehorning? replied: 'In all my travels I have never horning but what opposed it. On the other hand, $I$ have never met a man who had as many as twenty-five dehorned who was not in favor of it. We know and, instead of being a cruelty, is in and, instead of belng a cruelty, is in
reality one of the greatest preventives reanty one
of cruelty.'
"The Binghampton agent of the S. P. C. A., or Broome county, New York,
was recently instructed to look into the matter of dehorning, and reports as follows: 'There have been about 2,000 cattle dehorned in Broome county, and $I$ have found that it has been done by the most who take excellent I am also informed by Profs. Rotherts. Laws and Wing, of Cornell University, who have experimented with and investigated the matter, that it is beneficlal. The cows after the operation are less viclous and will lie down together like a flock or sheep; a number will drink at the same trough, and they milk. I have been unable to find any persons who are competent edge and experience to give evidence against dehorning.
D. Trott, of Abllene, writes: "The Ash
Grove herd is in the best of health. Sales Grove nard goo for the time of the yaear.
are fhere are a number pigs for sale, sired by fine Poland-China 17). Victor Tecumseh 30693, and others, and 83092, that was sired by the great King Perfection, Graceful T. Th73 and others or equal breeding. There are also a nice
tomers, sired by Trott's Big Bone 4607 , a. grand good hog, of a beautiful color, large and shapely, of the mellow, easykeeping order, always ready for market,
Iowa King 460 and others. Dams of pigs are such sows as sunflower 945, Sungood. Queen 9460 and others equa os short-leg, broad-back, lengthy fellowe,
Just the kind to make vien Just the kind to make, vigorous breeders. of plgs for customerrs, than a the preresent
lot. I will try to please all customers."
The passlons of mankind are partly protective, partiy beneficent, like the chaff their use none without nobenss seen In balanced unity with the ress when of
the spirtry which they are charged to de-
fend.- Ruskin. To attain excellence in society, an assemblage of qualifications is requisiste;
 sunce, knowledge of human nature, to
sult subect to haracter; true poilteness to prevent giving pain, a deep, sense of
morallty to preserve the dignity of speech,
 Slgourney.

## Old Mexico.

Modern Mexico is a beautifully illustrated monthly journal, published in the English Mexico. Send 10 cents for sample copy, Address Modern Mexico Publishing Co Topeks, Kas. Mention Kaxisis FAricrb,

## Jrrigation.

KANSAS STATE IRRIGATION ASSOOIATION.
It is impossible in this issue of the Kansas Farmer to make any detailed report of the proceedings of the state A mere statement of the program is interesting, however, and conveys strikingly an outline of the progress of ir
gation thought and development. gation thought and development. program.
Papers on general subjects are expected
to occupy but ten minutes. TUESDAY FORENOON, OCTOBER 1 . Calling to order at 9 a. m., by President Song by the Modoc Quarte
Remarks and prayer by

Song by the Modoc Quartet. M . M . Frost. tees of nine members each on Rules and Each committee will consist of one mem ber from each Congressional district in in
the State and anditional member from
the Sixth and Seventh, to be named by hhe delegates present from each district
The Committee on Rules and Order
 Election of oftcers fors ensuing year.
fominating speeches limited to five minties.
Installatition of offlicers. (informal).
Address of welcome, J. W. G. Welcome on beharf of the Finney County Adiress, Hon. R. W. Blue, Congressman${ }^{\text {at-Lrgrge. }}$ ITion, Old and New," Hon. L.
 peka It," T. T. A. McNeal Editor Kansas Breeze.
gathon," Horks. W. H. Be. State Boarto Russell. Irrlgation," Hon. W. B. Sutton, Russell.
Committee on Order or Business.
TUESDAY AFTERNOON, $1: 30$.

Uniday AFTERNOON, 1:30.
Kinsily

 Packing Interest,", Jacob Dold, Wlichita.
 streth, Lakin,
Swintronts of Small Farming," Hon. G. W.
Swocky Ford, Col. Swink, Rocky, Ford, Col. s. Emery, Lawrence. Alfalfa and Cattle," A. B. Kramer, "Raising Oysters in Kansas," C. H. Kellogg. Fay, Russell Co. County," L. P. Worden, Syracuse. ${ }^{\text {Darry }}$ Iring and Irigation," John Bull, Cimarron. Culture," Capt. Wing, Syracuse TUESDAY EVENING, 7:30. "The Future of Upland Farming in
Western Kansas," Hon. A. P. Heminger,
Santan Fen Santa Fe.
west Status, and Prospects of the South-
wivarser," Judge W. E. Hutchinson,
 "Early Days in Greeley," Senator David
Boy, Greeley, Corimato in Western Kan-
The Ploner Irigator sas," Capt. J. H. Churchill, Dodge Clity. Tombiln, Gooodland. Kansas," J. U. Brown

 cuse. Irlation Progress Away From the
Streams,', J. C. Starrs. Scott City.


## Songs by Modocs. Committee on Order of Business.

WEDNESDAY FORENOON, 9 .
Wetection Against Prairie Fires," Geo. $\mathrm{w}_{\text {: }}$ Mechandics a and ITrigation," Irvin Van Wide Syracuse, N. $\mathbf{Y}$., ", "ubsoiling and Sub-Irrigation," Thos. Knight, C. E., Kansas City.
isubsoling and Irrigation," Hon. J. B. McAfee Topeka. Application of Water," Lute Wilcor,
Editor , Denver Fleld and Farm, (with
charts). Chatsenage and Evaporation," Prof. L. G. "Alfalfa' $n$ Edwards County," R. C. Ea-
ward, Kinsly.
Whater Storage," C. D. Perry, Englewood. ${ }^{\text {Kansas }}$ Irrigation. From an Outside
Standpont, "
Hon. C. M. Heintz, Los Angeles, Cal.
E. Effects of Irrigation on Rainfall," w.
E. Huthinson Huthtolninson. :"Pratcilisal Points,", Hon. A. L. Kellogg, "My First Experience in Western Kan-
sas," Hon. Clark E. Carr, Galesburg, III. WEDNESDAY AFTERNOON. Inspection of great display of irrigation
machinery and appliances. WEDNESDAY EVENING

Riparian Rights.
In a sult just decided by the Nebraska Supreme court, it is held that riparian rights in streams not navigable are pritaken for publlic use tn the form of irrito the awner. Whe rase was brought on appeal by one Clark, who owns a grist mill at Arapahoe, on the Republican river, and the Cambridge \& Arapahoe Improvement Company was taking atway the necessary water from Clark's
mill. The Nebraska Supreme court says (opinion by Justice Post):
not as rule definition of the term navigable waters which here include those waters only whitch afford a channel for useful commerce, whether the beds thereof are
public or private property and without regard to the influence of the ocean tide 2. The courts of chls State (Ne-
braska) take notice without proof that braska) take notice without. proor that
the Republican river is unnavigable. " 3 . Except as abrogated or modified with statute, the common law doctrine riparian propmetors prevails in this "4. The right of a riparian proprietor as such, is property, and when vested
can be Impaired or destroyed only in can be impaired or destroyed only in
the interest of the general public upon the interest of the general public upon with the established law.
"5. The provision of the (Nebraska) irrigation law of 1889 and the act of 1893 rights in all streams over twenty feet in width, is a clear invasion of private property and within the prohibltive fealtures of the constitution.
made it suttor who thas iby his laches pletion or use of pubHic. works without great injury to his adversary, or inconto ithe preventive remedy of injunction but will be confined to the relief obtainaß
law."

## Some South Dakota Irrigation Figures.

 "Thirty-four bushels per acre. That this year." says the Redfild, (S. D.) Press. "The ground was given water only once, about the 1st of June. webelleve it might very easily have been fifty bushels; in fact, the proprietors think they did not sow seed enough. We bellieve a little more water and seed
would have made it fifty. But let's look at this thirty-four bushels a few
minutes. The wheat on the same farm, minutes. The wheat on the same farm,
treated in the same way in every par ticular except irrigation, gave sixteen bushels per acre. The irrigated wheat
weighed out sixty-two pounds to the weighed out sixty-two pounds to the over thirty-five bushels. This selts
for No. 1 hard. There is then a little difference of nineteen bushels per acre In favor of the irrigated wheat. Wheat
is now about 50 cents a bushel, so that the irrigated wheat gave $\$ 9.50$ an acr more than not irrigated. Of course
there was a little more expense attendthere was a little more expense attend-
ing its production. Most prominent is ing its production. Most prominent that depends on the number of acres and the ease with whicn the work
done. It will not do to figure cost of spreading water on a single acre, of acres. The well is capable of irri gating 800 acres, but call it 640 , or a full
section. A man can easily irrigate, those who have tried it say, fitteen acres a day. Then it will require about forty-
three days' work to spread the water once, as was done this year. Call it That, would make elghty-six days' work, Then handling the extra amount o grain in harvesting and threshing and
delivering must be counted in. Just how much this would be is hard to figper bushel or $\$ 1.14$ per acre, or $\$ 729.60$ Let's call all the extra expense $\$ 1.000$ which you will see is very high. Now let's look at the extra gain. At $\$ 9.50$
per acre the 640 acres will give $\$ 6,080$. Remember this is for the extra nineteen $\$ 1,000$. Therefore the profit in this one and all ditches cost less than 85,000 . So that in a single season, on what we all elieve was not a very large have been obtained, and when the unirrigated crop had a good chance, the well would have pald its entire cost and the extra expense of its use.
Joel Shoemaker predicts that subIrrigation by means of tiles ts the con-
ing system of all the arid States wher the soil will admit of its practice.


IRRIGATION MACHINERY. If you want the most practical, eff-
cient and cheapest irrigation pumping machinery, write for catalogue of Centrifugal and Triplex Pumps, Enginee,

IRVIN VAN WIE,
tes st., sYRCUSE, N.'
Now for 1896.
Now that the harvest is practically
over, and such an abundant one it has over, and such an abundant one it has
been, the results must be very gratifyng as we look back on those days o How was this wonderful croal plished? We can all unite in saying that nature's element had much to do with t , but in addition comes cultivation and planting stock. Certainly the latte comes in for a good bulk of the praise,
for what strides of advancement have or what strides of advancement have been made both as to yield and quality. Corn easily yielding over 100 bushels per acre on an average, in many sections, velous, whtle wheat, rye, barley, and all general field crops form a rear guard of unusual strength. But look at the array of garden produots. Every State and
county fair, as well as all exhibitions, have been crowded with the cholcest products from the market and family arden. It all goes to show that we ar tural and horticultural interest.
I have received testimonial letter most every country, testifying in in glowing terms the results obtained by plantng Buckbee's seeds.
nd for next year, and first of all comes in heir mind, seed. Is that which you nough? By all means, no. It is abso utely necessary that a change be made occasionally, and then to get the latest improved and very best stock obtainabue.
Buckbee's Seed and Plant Guide for anuary 1 , to all regular customera uyers for the asking) an intending accuracy the products, porthe Rock Seed Farms. Tells all about the great oat-Illinols-which produced from 100 ta 150 bushels per acre in 1895; the new corn-Bucgbee's Colossal-which gave an average yifld of over
the acre in many sections.
The valuable novelties in the garden nd flower seed line will be attractiv oo every one, while the array of plant
novelties will be of much pleasure to all lovers of the beautiful.
Now is the time to begin plans for Take time by the forelock and make the harvest of 1896 stand out as an example of the wonders which the agricultural and horticultural world ean accompish.
H. W. BUCKBEE, Rockford Seed Farms, Rockford, in.

heaper than coal or wood. They make No odor or smoke, and are perfectly safe in every way.
Any one can set the burner and outfit up
eady to run in a few minutes time simply ready to run in a few minutes time. Simply
place the burner in the stove on the grate place the burner in the stove on the grate,
drill a five-elghth-Inch hole in the stove door (or put on a sheet--1ron door): then
connect pipe and valve to burner. Place he on tank onn the wath near the stove,
the outside of the may desire, fasten the pipe to the tank
and burner, and you are ready to run The heating stove
stove the same way
They guarantee
They guarantee thelr burners to be a
complete success in every particular; that they will not smoke or carbonize, and that make their burners strong and durable,


Weber Gas and Gasoline Engine Co., 459 Southwest Boulevard, Kansas City, Mo.

## Our First-Page Illustration

 On page 1 of this dssue, we present agroup of young Kamsas-bred Herefords, from the sumny slope farm, owned by c. ©. Cross, Emporta, Kas. Thes ooung. Herefords were sketched from uife
The Sunny Slope farm herds of cattle and swine were the only representatives of Kansas improved stock that went fortuh to outslde Stat
Kansas with victory
The result of the contest in Iowa and Nebraska ds reported as follows: At the owa State fadr, Wdid Tom, the head of
 any age. Archlbald VI. was first in bull alves; first in sweenstakes under 1 year. all beef breeds competing, and was head of herd winning second, all beef breeds competing. Climax was second in: bull calves. Miss Wellington 5th was frst in heifer calves; Beau Reall's Lilly was second in helfer calves; Lady At the Nebraska State dair, Omaha r's prize, boar and four of hils get, wo by Hadley Jr.; this is the prize most sought for by breeders. Finst with Fruuttess Queen Corwin, on yearling sows. First with King Hadley, in boars under 6 months. Second with Hadley with yearling herd, headed by Hadley Jr. Second wilth Lady Longfellow, sow under 12 months. Second with samboAne, sow under 6 months. Third wilth Maggle, aged sow. It was the universal
mammoth brood eow, Mise Lord Corwin 2898 ; Onwaand, bred by col. F. M. Lafl, hall Malal elso the dam of Lefli's Vic tan and Gov. WWikes 13057. They are out of a grand lot of mature sows moted for their blue blood and fine quality. Among the plgs which go in the sale whil be the produce of Mr. Null's champtinn 28498 by Lond sow, Miss Lond Corwin 28498 by Lord Corwin' 4 th, 901 , a grandson of Glve or Take 24 S ., and one of her sow, Enwood Mald 4235, a full sister to the $\$ 800$ boar, Free Trade, and the produce of two of her daughters, Elwood Beauty 28821 and Lady Elwood 31510, also Lady A. 23047 by King Perfection 7013 and out of Hallde 5555. The produce of many more good sows whil be offered, representing the blood or Geo. Wukes,
Laill's Victor, Free Trade, King Butler, Hadley, Commonwealth, M.'s Wannamaker, The Colonel and others. The offering of Chester Whites is a grandilybred lot, sired by such well-known boars as Chester Pride 6393, King Eclipse (a son of the World's Fair winmer, Eollpse) and Pedro 2d, out of such magniffeent Beauty, Edina Bunch and others.

## Pablishers' Paragraphs.

## The Western Manufacturing Company

 of Kansas City, Mo., Is a new institution Whacmer now advertising in the KansasThey mantacture a subsoll
ploww nister cult mators Mlown, lister cult|tatons and corn crilis.
Every farmer who has cor'n to crib wlii Every farmer who has corn 10 crib wil crib, which is economilcal, serviceable and
be slaughtered. My two herd boars, fit to
head any herd, and other things will be head any hera,
sold very cheap."
Elsewhere in this paper will be found the advertisement of the celebrated Victory Corn and Feed Mill, manufactured
by Thomas Roberts, spprigfield, ohlo. The steady growth and sale of these mills has been something very gratifying to the Mr. Roberts is the ploneer in the manu facture of power grinding mills for ear corn, shelled corn, oats, rye, barley, cot-
ton seed and all kinds of small grain and ton seed and anl kinds of small grain and
does not hesitate to say that there are does not hesitatis to say that there are a
greater number of VJctory feed mills in successtul operation to-day than of an
other makes combined. Mr. Roberts is other makes combined. Mr. Reberts is
continually experimenting with new grindcontinually expperimenting with now grind-
ing parts of every design, and this year will pat upon the market a mill containing the very best grinding parts, plates and crusher of any similiar style of mill
made in thle worla. His mills for the past maide in thls worla. His mills for the pas
two years have more than met all reaulre ments, but his present mill is better than they werte, if such a thing is possible. Hiss mills this season are lighter-running
and grind faster than ever before and the and grind faster than ever before, and the
quallty, along with the e 10 ow price at which they are sold, make them the very best
mlil now offered to the trade. The Vicmlli now offered to the trade. The Vic triy is the most simply constructed and
eastest mill to operate now sold and these easiest mill to operate now sold and thes
features alone should commend them to features alone shougu commend
all. Send tor catalogue and prices.
J. A. Worley, proprtitor of the Pleasan canoel his Poland-China sale date of Octo ber 3, on account of the hog cholera scourge. He says: "I have lost about
one-half of $m y ~ h e r d, ~ a n d ~ t h e y ~ a r e ~ s t l l ~$ dying. Elight head dided to-day. Lost all dying. Eight head sows (nine head) except
my herd oo show
two.

Killough's Poland-Ohinas,
The forthcoming sale of Poland-China wine, property or J. R. Killough \& Sons, richmond, Kas., w. hoice in every way Individully each nimal is about all that any person coulc ask for, and collectively, one would have to o a long distance to find better swine, or ven as goor.
The boar at the head of their herd is the noted Upright Wilkes 13246 S ., sired by Geo. Wilkes 5950 S . and he by King Tecum en 3921 S., out or Whire Lace 1380 s. 1121 S. by Luyster's Cholce 18283 S. out of Pride I. 31120 S . Of the leading sow the writer noticed Sealskin 24450 S . by Duke 7362 S., out of Choice 16677 S. Duke was by Royal Duke 7383 S. and out o Howey's Bess 16676 S., while Cholce was y Young Amercia 938 S ., out of Fox eauty br 800 S . Queen bess 2451 0139 S Black Bes was by Tom Crowder 361 S. and out of Choice 16677 S . Little Bess 24453 S . has same breeding as Quee Bess, being from the same litter. Bess McKinley 82292 S . is by McKinley 8777 S . and out of Black Bess 20139 S. ; three of her pigs are by Riley Medium 12300 S ., the 500 prize boar of Ed. T. Warner. Quee ess is the dam S Mol $81155^{5}$ Su 1154 S and Ideal 31153 S ; they y Solidity 10479 S and were farrowed ctober 26, 1898.
Send for a catalogue. It will tell you all sout them. The sale takes place on Thursday, October 10 , beginning at 1
o'clock t.' m., rain or shine; so don't re-

opinion that Hadley Jr. woulid easily have won first had he not been so dame. He sprained a tendon upon a slippery floor just before he wint from home.
This herd goes to Wichita and to the Texas State fair, at Dallas, where they hope to show Hadley Jr. sound on his feet as he has always been.

Miss Lord Oorwin 28498 S. The Illustration herewith of Miss Lord fine specimen of the dam of the produce offered to breeders at the grandid two days' sale of 150 head of Poland-China and Chester White swine, the property of Messrs. George W. Null and C. I Gibson, of Odessa, Mo., to be held at their respective farms, three and a half milies northwest of Odessa, Wednesday
and Thursday, October 9 and 10. We are and Thunsday; October 9 and 10. We ar known, as well as the highest quaillty of indilvidual merit, is represented in the animals to be sold, both in Poland-Chimas and Chester Whites. The offering will conslist of the cream of the Messrs. Null and Gibson's spring crop of pigs, amd one richly-bred Holsteln-Friestan bull call. The Poland-Chinas are sired
by such boars as Laill's Victor 4298 S . by by such boars as Laill's dictor 4298 S . by for $\$ 300$ and has sired some of the most moted hogs of the day; dam of Lall's Victor, that remarkable brood' sow, Marshall Maid 4752, sliced by Stemwinder 1214 S., one of the best, Poland-China stres of the breed ever known; John L. 9517 , a grandson of Laill's Vjctor andi out of Minnie Cook 17416 by King Kliver;
Nulls King 13517; Hoviden Header 12289; Corwin King 13394 by the sunset boar The Colonel 8238, and out of Mr. Null's
after the corn is out, can be used for a
garden or yard fence. Nearly every reader of this paper will be tinterested in this earm Implactory, which is making a line or dapted to Western agriculture

We direct the attention of frigators this week to the new Centrfugal Pumping Machine, manufactured by the Kansas clity
Hay Press Company, of Kansas City, Mo. These pumps are heavy, well made and the nd
The Natlonal Stockman and Farmer, published at Pittsburg, Pa., price, si.50 per year, is the best up-to-date general many of our readers have expressed a destre for such a paper in connection with the Kansas Farmer, and we have recently aroffer thls paper and the Kansas Farmer one year, for only $\$ 1.50$. See our offer in another column.

## Gossip About Stock.

Attention is darrected to the closling-out cattle sale of Kirkpatrick \& Son, of Con-
nors, Kas., advertised in this issue. Thie farm on which the Angus cattle have been carried has been bold, so that hereafter
the bre:aing business will be confined to fine sheep and hogs.
Wilkle Blair, of the Beulah Land farm, Beulah, Crawford county, Kas., writes:
"since my card was placed in your 'Breeders' DIrectory,' ${ }^{1}$ desire to repor sale of first-prize sow, for a foundation
for a Chester White herd, to S . E. Veatec of Gurard, Kas., at the very low price of ${ }^{320}$. Also a male pig, to head herd of Mr. Alseasser, of Bravilton, KKas., at $\$ 8$. These prices are very low, but untll sold
out all will go at such prioes. Have Bome out all will go at suuh prioes. Have bome
fine hogs that breeders uaght thave hut
if they are not taken soon they will go to
we havle ever had. Some sections clean as county it has taken out so the farmers to supply them with their year's meat. The disease seems to be traveling west. The Brown county fair
came off last week, with the slimmest showing of hogs that I ever saw. Had a good racing. I notice, in talking with a good many farmers that have lost their hogs, that they have about concluded to quit the business and turn their attention They clatm that they can't stand it to lose their hogs every two or three years, hence are going to quit. It is a severe blow to our section, with the big corn crop coming so as to take my bearings for a fresh start if I have anything left to start with. I have not lost all h
are all right yet."
Crane Company, of Kansas City, advise us that they obtained first prethe Frizell cylinders shown at the Irrigation Congresss and falr at Albuquerque. They also obtained first premium on their Worthington irrigation pump. They made at Albuquerque the largest exhibition of irrigation machinery ever shown at any fair. They are in receipt of a letter from M. Churchill, Hardware Co Dodge City Kas, in which the states that the Crane windmills were running in a light breeze when all the others were at a standstill In a etter from a resident of Plain ville, Kas., he writes that the crane windmill at the Sitate irrigation plant 1 working the "finest kind.'
main away on account of the weather Free conyeyance from and to all trains. monies, and this will be master of cere chaser that stock will be as represented in every particular. See advertisement else where in this paper, read it, and then hasten to answer the invitation to send fo a free copy of their catalogue. It will pay you.

That Trip East
May be for business or pleasure, or both but pleasure comes by making a business 0 traveling East over the Santa Fe Route as far as Chicago.
Thirty miles
Missour miles the shortest line between quick time and sure Conneago; thent
Track is straight, rock-ballasted, with ary few crossings at grade.
No prettier, cozier, or more comfortabl trains enter Chicago than those over the Santa Fe. They are vestibuled limited ex presses, with latest pattern Pullmans and free chair cars. Meals in dining car served on plan of paying for what is ordered.
Inquire of nearest agent, or address $G$. T. Nicholson, G. P. A. Santa Fe Route Black, A. G. P. A., Topeka, Kas.

## Homes for the Homeless.

The opening of two Indian reservations n northeastern Utah to settlers opens $u_{p}$ agricultural and stock-raising land for home seekers.
The Uintah and Uncompahgre reservathe Union Pacific system, via Echo an the Union Pacific system, Via Echo and
Park City. E. I. Lomax, G. P. \& T. A.,
U. P. system, Omaha, Neb.

## The fome Circle.

## To Correspondents. The mattor for the Hoxa cricuin it selotea  alves acooralingly

## A POETS LESEON.

Poet, my master, come, tell me true, Ah! that is the eastest thing to doYou take a cloud of siliver hue,
A tender smile or a sprig of rue,
With plenty of light and shade. And weave them round in syllables rare, With the earnest words of a pleading Wth the prayer, caught from a dulcet A tale of ave and a lock of halr
Or a bit of a traillng vine.
Or delving deep in a mine unwrought,
The gou find in the tein of nobmie thiourt
 A brillant youth who has lost his way A sculptor's dream or the plastic clay A painter't soullin a sunset ray;
The smeetest
Or a strugging nation's strife.
A boy's ambition; a madden's star,
 empty sleeve; a veteran's scar,
Or a land where men are free.
And if the poet's hand be strong An weave the web of a death
And Hf master guld the pen To words that reach the hearts of men,
And or the ear and touch be true,
Its the And if the ear and touch be true,
At's the eastest thing in the worrad
-Ath Macy.

## A Common story.

She was falrer than a wly,
He was handsome, he wa
But they handsome, he was wall At the Rosedale's a nnual ball; For they sat among the flowers
In a thitary plaoe
And they firted there for hours-
Then the came a fortnight after, And was snubbed by her mamma, By her corpulent papa.
But she
Whe a met hlm ath the portal, And they pledged a love 1 mr
As is
irequently the case.

So they fled, and they were mated, But they might as well have walted Or done bether stlll than that: walted, And they wish that they grace single-
As frequenty the case

## BRAZILIAN ZEBRAFISH.

## A Real Novelty for Ladies Fond of Pretty

 quariam Pets.This new aquarium fish was first brought to Germany by an enthusiast a year ago and was successfully propagated last summer. We saw the origipicture, which we reproduce from Natur und Haus, is a good representation.
The fish attains a size of about five inchesin length by two inches in width. The general appearance is that of a
sunfish; the ground color of the body, which is entirely covered with small scales similar in size to those of the Paradise fish, is a brassy yellow marked with a number of irregular vertical bars arstipes of black; the dorsal and anal fins are large and long, being which about one-third mare rays on ons they are black in color; at times, however, when the fish is excited, the yellow of the body becomes brighter and runs in streaks into the black dorsa fn, making this appear as if it was a fin is colorless and transparent; the caudal fin is rounded. The eyes are yellow, flashin? like fire on some occasions, and ri nbling those of themoss bass.

The fish 1: iy aitractive, especially when excitc it reminds one of a her used to display the colors of their masters in stripes. At other times the fish will assume a very plain grayish color with only one irregular black spot on each side of the body, midways and near the ends of the dorsal and anal fins. Young specimens show these peculiar markings
The habits of the zebrafish are very much like those of our moss bass; they are vary pugnacious and display the
other as the moss bass do, but thei point of attack is the mouth, and if they succeed in grasping it, they hold firmly
fike much fighting male do, much thghting male Paradise $t$ a great deal we have not yet seen one that was seriously
hurt. They seem to be on friendly term hurt. They seem
Their breeding habits, too, are muc like those of the sunfish family. They pair off during the summer and prepar

brazilian zebpation
the female deposits her eggs, which both guard. Four days after spawning the young hatch. These are as carefully guarded as the eggs were, and later on the fry are instructed for who swim about with them as a hen walks around with her chicks. We find that the zebrafish stand captivity well, immensely enjoying their meals, consisting of scraped raw beef or I. X. L. fish food. Their native home is La Plata valley. The South Americans call them "Chanchitos," which means "pig," either because in form they are somewhat like that animal or because they fight in a manner similar to young pigs. In Germany the name "chameability of the fish to change its colors. This, however, we consider no denom inative feature, as nearly all of our sunfishes, and also the Chinese Paradise fish, possess this ability, in cases even to a greater extent than the zebrafish
does. We selected the latter name for does. We selected the latter name for their color and we fripes that throug bles a zerra bles a zebra more than snything else, especiany when the hish are most brit in the corsal and the yellow appear ings of the mane of the zebra are represented.

## Rice Soup a la Creme.

A rice soup that is valuable in these high priced meat days is made withou stock. Let two quarts of water, in which an onion has been sliced and a bunch of celery tops thrown, boil for an hour; remove the onion and leaves, been carefully washed and rice that ha been carefully washed and looked over stirring often, or until the an hour wollen and tend ing beat up in the tureen itself the yolks of two eggs, with half a tumbler yolks of two eggs, with hals a tumbler a pinch of nutmeg, if liked. Pour the poiling soup over this mixture from height, beating it still with a whisk, to mix all thoroughly, and serve with toast squares.
How to Relleve Collo.

For relieving colic one eminent physician recommends simple bicarbonate of soda, of which one-half teaspoonful is to be dissolved in half a tumblerfu or water, and a teaspoonful of the solu minutes. This, by infant every fiftee mines. This, by the way, is a very ood preventive of colic, and may be day to mildren haldisozed to day to children predisposed to the ple medicine, the to giving this sim pently massaged with the should be ently massaged with the hand, th if this fails to alleviate the distress, hot flannels may be applied to the stomach and bowels.
How to Clean Nickel Ware

The best cleaning compound for nickel ware is fifty parts of alcohol and one of sulphuric acid. The article to
be cleaned is held in the solution five to fifteen seconds, after which it is washed with water, rinsed with alcohol and wiped dry with a clean
rag. The dirtiest of nickel goods is said to come out with a bright, new ook. The ehortest and surest way to live with
honor in the world is to be in reality wha
we would appear to be.-Socrates.

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

## Royal Baking ABSOLUTEIEY PURE

THE GIRL OF THIRTEEN

Unless She Has Good Care She will Make
a Forlorn Woman.
The girl of thirteen is the future保 umanity, says the New York Sunday Adverliser. She is a child and just tronsition which to grown-ups, means only a sudden shoting up bey, mean bounds and a tendency beyond al shoulders, is much more to the girl who leaves childhood behind and is not ye young lady. Fast growing is a ver great drain on any child's strength, and as at thirteen she usually has con siderable work at school, both mind and body are called upon to do doubl work. That is why she needs care. Good food, rest and congenial com pany are some of the things which are necessary for the girl of thirteen. She should not have too much excitement or books to read which tax he thoughts too much, as her mind de velops only too quickly at this age, and everyday life and lessons are enough to occupy her. She should go to bed early and sleep ten hours. For break fast she should eat strengthening bone-making food, oatmeal, oranges, brown bread, eggs and milk. For he midday meal she should have some hing more sustaining than a bread and butter lunch, if she is to grow up nto a strong woman. Hot soup and chop and a baked potato every day for three months wil make her stand ptraighter than braces will
ir should have a walk in the open ir every day; if she does not get thi he fang brepless, have fantasho notions about an earl grave and running away from home, write morbid little verses and weep over the por These ere all symptoms of the pirl of are all true begins to think she is very old as soon as she to into her teens, and the re sponsibilities affect her sensitive new mind to an appalling degree-if she is given the time to think of them

## NEAT PARASOL CASE.

Jo This is a very handy
put umbrellas in whil case, either to hang on the wall of a dressing-room to

keep them in. The foundation is un bleached linen, the back is cut 36 inches 25 inches 19 inches wide; the front is front is arranged in two box plaits which form the pockets, the top of each of which is embroidered with a stripe in crewels or flax thread; a shorter stripe is worked between the pockets. The edges are sewn together, and a border of leaves is worked entirely round. The embroidery will look best worked with one color or shades of one color. A rosette of ribbon, with a pointed strap between them, is placed at each of the
upper corners, and if the case is to bo hung up a loop should be sown under
each of the rosettes by which to suspend it from hooks on the wall. When used for traveling the case is rolled up in a bow.-St. Louis Republic.

## PIQUANT PEA SOUP.

## ded as an Excellen to the Home Menn.

A recipe for a pea soup which has little different flavor from our everyday pea soup comes from India, where it is customary to use sharp, piquant flavorings. This soup may be recommended as an excellent addition to our home menu.
Put a pint of sound green peas to Poak in a quart of water over night. In the morning drain them and add three pints of cold water and a bit or soda the intil bous em very slowly until they are soft en anh to press through a sill An ormall hour bits and add two cloves of garlio or use two anions if more garke, or these in two tablespoonfuls of butter Add six cloves and one bapleaf, and finally add the whole to the pas that have aden strained through the that Put in a tablespoonful of salt and e cup of canned tomatoes, or fresh ones in their season. Let the soup cook slowly for half an hour, when, if it is too thick for a soup, thin it with a little boiling water and let it cook ten minutes longer. At this time add a pinch of red pepper, a tablespoonful of butter and a cupful of squares of bread which have been fried golden-brown in butter
This soup has an additional advantage of being comparatively inexpen-sive.-N. Y. Tribune.

New Bread Pudding Recipe.
A new recipe for bread pudding is one worth adding to the housekeeper's note book. Soak one pint of fine crumbs in blespoon fuls of cocos dissolved in a tatle water, three well-beaten eggs, half-cupful of granulated sugar and another pint of milk. Set the puddingdish in a pan of hot water and bake one hour. Whipped cream flavored with vanilla is very good with this pudding, or a sauce made from a scant cupful of sugar, a tablespoonful of corn starch and a cupful of water may be used. Cook the ingredients in a double boiler ten minutes, and just before serving add an ounce of butter and a hall-tea spoonful of vanilla.-St. Louis Republic.

## ORGANS ano PIANOS

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WEBTERN AGENTS FOB
farrand \& votey organs; The best organ manufactured, at a reasonable
price. Guaranteed for six yeara. Easy terms.

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 0ct.15.EXCURSION SPECIAL TRAIN. LOW RATES. sengers en route.HoME-SEEEERS who
contemplate moving...... WEST OR SOUTH

 Land at About Half the Usual Prices.
 Farm, Field and Fireside When you write mention Kansas Farmer

## Che Young folifs.

## THE OLD APPLE TREE.

$I$ love to recall my chilahood days.
And
whe
humble senes that $Y$ lioved so
 The crooked stars with the Hetle nook,

That dear old friend, in whose kindly
 And o'en in chillish sorrow and pain


Perrhaps my memory plays me false
And helightens the charms that It really


## And the dear old apples though hard and

 And fren And full of knots as a frult could be, And small and puny, are far more dearThan the famous appoes or gol to me.
-Good Housekeeping.

## you never can tell

You never can tell when you eend a wordLike an arrow shot from a bow and Just where At will cenance to or or kina,
It may pierce the breast of your deares Tipped with its polson or balm;
To stranger's heart in ilre's graeat mart
It may carry sts pain or ris calm.
You never can tell when you do an act
Just what the result will be; Just what the result will be;
But with every deed you are sowing
seed, Though
 In God's procucuctle soill; ropped And shelter the brows that toll.
You never can tell what your thoughts For bringing you hate or love: Are sings
 Anatever went out flrom your mind.
-Ella Wheeler wilcox.

## ANTS KILL REPTILES.

Armies of the Insects Attack and Vanquish Large Snakes.
That ants can actually kill snakes is a hard thing to believe. There is irrefutable evidence, however, that they do, and scientists have discovered dangerous enemy. The large redbrown forest ant is the sort that is the most fatal to the ophidians, and a curious thing about the attack of these tiny creatures on this comparatively enormous reptile is that they kill it for food and not on account of any natural antipathy.
When some of the ants catch sight of a snake they arouse the whole community at once. In platoons and battalions the little fellows set upon the reptile, striking their nippers into its body and so rapidly and conpoints at once. So rapidly and concertedly is this done that the snake has no chance at all of escaping. It is at once. The snake soon becomes exat once. The snake soon becom
Then the ants set harder at work. This may seem a strange story, but it is true. They begin to tear off the flesh in small pieces, gradually stripping off the skin and working inside of it. Not until they have carried away everything except the bones and the skin itself do they leave it.-N.
World. World.

Humming Birds and Flowers. It has long been known that insects assist plants by carrying the. fertilizing pollen from flower to flower, but the fact brought forward that humming birds are just as effective distributors of pollen as insects are. It has been shown that these little birds, which are as fond as bees of the honey of flowers, carry the pollen grains in great quantity, not only on their feathers but on their long bills also. Indeed, so well suited is the humming bird to do this work of distribution, without any intention of its own, that the question has been raised whether it may not be the most beneficent of all the nuconscious friends that the flowers have in the animal Forld.

## THE AMERICAN BISON

Only Two Hundred Whd Buffaloes stil Alive in the United States. In a widd state, the American bison or buffalo, is practically, though not uite wholly, extinct. At the presen moment there are about 200 wild buf faloes alive and on foot in the United States. To obtain these high figures we include the 150 individuals that the white head hunters and red meat hunters have thus far left alive in the Yellowstone park, where the buffaloes are fondly supposed to be protected from slaughter. Besides these, there are only two other bunches; one of about 20 head in Lost park, Col., protected by state laws, and another, con taining between 80 and 40 head, in Verde county, Tex., betw iver and the Mo Grande
Four years ago there were over 800 head in the Yellowstone park, thriving Through them we fondly hoped the Through the $w$ fond foped species ute extinction the poachers Conrecks provides pay for fust one solitary scout to guard in winter 8,575 square miles of rugred mountain country against the horde of lawless white men and Indians who surround the park on all sides, eager to kill the last buffalol The poachers have been hard at work, and as a result our park herd has recently decreased more than onehalf in number. It is a brutal, burning shame that formerly, through lack of congressional law adequately to punish such poachers as the wretch who was actually caught red-handed in January, 1894, while skinning seven dead buffaloesl and now, through lack of a paltry 81,800 a year to pay four more scouts, the park buffaloes are all doomed to certain and speedy destruction.

Besides the places mentioned, there is only one other spot in all North America that contains wild buffaloes. Immediately southwestward of Great Slave lake there lies a vast wilderness

of swamps and stunted pines, into which no white man has ever pene trated far, and where the red man stil reigns supreme. It is bounded on the north by the Liard and Mackenzie rivers, on the east by the Slave river, on the south by the Peace river, and on the west by the Rocky mountains. Mr. Warburton Pike says it is now the reatest beaver country in the world, nd that it also contains a few band the so-called wood bufalo. Some imes they are heard of at and Vermilion, sometimes at Fort St John, on the Peace river, and occasion * * but it is impossible to say anything about their numbers." At al found eight buffary, ons only four days' travel from Fort Resolution, on Grea Slave lake, and succeeded in killing one. The Canadian authorities estimate the total number in that region at thre hundred. - W. T. Hornaday, in St Nicholas.

Perplexed Without Cause
A famous Chicago lawyer once had a singular case to settle. A doctor came to him in great distress. Two sisters, living in the same house, had babies of equal age and sex, who so resembled one another that their own mothers were unable to distinguish them when that by the carelessness of the nurses the children became mixed. How were the mothers to make sure that they received back their own infants? "But, perhaps," suggested the lawyer, "the ohildren weren't ohanged at all." "Oh,
changed!" said the doctor. "Are you ure of asked "Well, if that' ectly," was the reply. "Well, if that's the case, sane them beck again? I don't see any difficulty in the case."

## EVERYBODY LAUGHED.

Hage Orowd Amused by a Torrier and az Indestructible Rat
A rat, a terrier and a small boy caused thousands of people to congregate on West Madison street about nine o'clock the other night, and it was not a real rat, elher. natural-looking rubber aifair, was con bulb. wro a long, tho pipe and bulb the rat would lop most lifelike manner and the ladies on the stret would shriek with tarror ond the street their shirts This delishted the crowd, which surged down on the boy and the rat from every direction. The fun was kept up for an hour or more, even the policeman on the beat stopping now and then for a good laugh. Suddenly, however, a sleeklooking rat terrier sprung through the crowd and made for his mortal enemy. Down he pounced. The boy gave the bulb a jab and the rat leaped about six feet. Again the dog made a spring. This time he caught the rat in his teeth and the pressure caused it to give out a most lifelike squeak, which delighted the dog and audience alike.
By this time the street was packed. Time after time the dog would shake the rat and put it down, only to see it leap again, to the wild delight of the crowd. For the first half hour it was mere play to the plucky little terrier,
but after awhile things began to grow but after awhile things began to grow monotonous. The dog lay down for a rest and the rat jumped over him. This was too much for canine flesh and blood to stand; he leaped up again, and now the contest kept up until the dog fell from sheer exhaustion. Panting and with eyes protruding, he made a few more ineffectual snaps at the rubber rat, then turned over on his side gnd owner worked his way through the crowd, picked up his pet in his arms, uttered a few remarks ond ofe to lick the men who hed killed his dor The crowd jeered and dispersed, while the small boy strolled down the street in search of another ambitious rat ter rier.-Chicago News.

According to a southern correspon dent, a great, gaunt, colored man entered the express offce in a smal town and asked if there had been any thing received for George Washington The clerk gave him a knowing look and said, sharply: "What game are you trying to work on me? Washington died long ago!" This is a companion to the story of the congressiman who be gan an address by saying: "As Daniel "It was says in his great dictionary-" It was Noan who wrote the diction "ary," whispered a member at the nex contemptuously. "Nonsense! Noah built the ark!"
"For several mon'ths I was troubled with a persistent humor on my head Which gave me considerable annoyance,
un'th it occurred to me to try Ayer's un'th it occurred to me to try Ayer Hair Vigor. Before using one bottle, he humor was healed. General Merchant, Turbeville, The greatest truths are the simp
and so are the greatest men.-Hare


A Family Liniment.

## January ioth, 1895 .

The Dr. J. H. McLean Med. Co.,
St. Louis, Mo.
Gentlemen: Iam a firm believer in Dr. J. H. McLean's valuable medicines; have used several kinds of them with the most satisfactory results. Within the last few years, I have used more than twenty bottles of Volcanic Oil Liniment in my family and on my farm animals. I want no other, as it does its work promptly and thoroughly.

Yours truly,
W. J. VANCE

FLIPPIN, MONROE ©O., KY.

| ADVERTISING RATES. <br> Display advertising, 15 cents per line, agate, (fourteen fines to the inch). <br> Speolal reading notices, 25 cents per line. <br> will be reoeived from reliable advertisers at the rate of 85.00 per line for one year. Annual cards in the Breeders' Directory, conoluding a copy of KANBAB FARMER free. <br> kleotros must have metal base. <br> Objectionable advertisements or orders from un- rellable advertisers, when such is known to be the case, will not be accepted at any prioe. <br> ment, send prompt pubication of an advertiseor quarterly payments may be arranged by parties who are well known to the publishers, or when acceptable references are diven. <br> thond readvertising intended for the current week ohould reach this offoe not later than Monday. Fivery advertiser will receive a copy of the paper free during the publloation of the advertisement. KAdress all orders- |
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PROF. SNOW'S REMEDY FOR OHINOH BUGS.
I would like to hear what the Kansas Farmer thinks about Prof. Snow's remRogers, Kas.
The Kansas Farmer has watched with interest the experiments with the white which Professor, now Chancellor Snow of the State University, has sought to aid farmers in their struggle against this enemy. Whatever has been done
and all that has been discovered in the course of these experiments has been promptly and faithfully given
public in the published reports. learned that (1) infectious diseases of (2) The spores or germs, by which these diseases are communicated to well bugs have been clearly identified and have been greatly multiplied by careful cul-
ture. (3) The most destructive of these diseases has been com-
municated to the bugs in the municated to the bugs in the
field. (4) Some of the conditions necessary to the effectual destriction of bugs
in the field and consequent protection In the field and consequent protection described. (5) it is olearly ascertained that the destructive disease may be degree of moisture to favor the rapid propagation of the disease. (6) If dill-
gently used on the first hatch of chinch gently used on the first hatch of chinch
bugs any season, the next hatch is not likely to be in sufficient numbers to do serious damage. If each hatch, large or small, be met with the disease, considerable injury is unlikely. (7) To be appllied to all fields in the vicinity, for, at a certain stage of development, the
bugs travel. (8) The sufferer from ohinich bugs does not usually become alarmed or think of applying a remedy until their numbers have become miltruction of the army of bugs can save only aifter several hours' exposure and many may escape for several days if the
weather be dry. (9) Chancellor Snow h'as rendered a valuable servilice. He has sought out and described methods by which crops may be protected from the ravages of ohinch bugs. This is of a man of science. It remains for the state, counties, comremedy, if they deem the crops to be protected worth the effort.
Whurther, the Kansas Farmer thinks this protection so important and the
chances of making it effective through the use of the infection so favorable, that the malter ough't to be taken in
hand by every county board in the S'tate, and every brood of bugs, howeve few in numbers, should be given the
disease as soon as hatched, to the end that the nex't $b$
to be harmless.
Pasteur, the leading bacteriologist of the world, died of paralysis in Parls, France, last Saturday evening. Perhaps more than Pasteur to thelp peaple to auccessifully batthe against the minute down to posterity as that of a benefactor of hdia crace.

THE OUESTION OF WAGES.
It has long ibeen the boast of patriotic orators in this country that laborers Wages were higher than in any othe
country, and whoever iwanted to work could readily find the opportunity. There has been contention among poThere has been contention among pobeen thec hief promoters of this envi-
able condition, and this contention has in measure prevented clear discernment ers have attributed the high wages to the vast extent of unoccupled land on
which the laborer might locate and bewhich the laborer might locate and be-
come his own employer and an independent producer, if wages threatened to go too low. This fact, together with the ample seclurlty afforded by good government to the ploneer and his posses slons, doubtless in large measlure ac counts for the phenomenal good wages and ready employment noted
While other reasons doubtless have
contributed to the notable decline of contributed to the notable decline of
recent years, in both wages and oppor recent years, in both wages and oppor-
tunitles for service, the fact that the limit of free lands in the humld belt has been reached, is sufficient in itseli of lalborers and the consequent tending to lower wages.
It will not be forgotten that in this country increase of population, especi-
ally of wage-earners, results not alone ally of wage-earners, results not alone
from the excess of births over deaths but also from immigration. The fac of higher wages and greater oppor-
tunities here has attracted vast numbers
scale
which which became known the opportunity for better advantages here offered. Grea as has been the immigration, a glance at wage-earning conditions in other coun-
tries can only result in surprise that the tries can only result in surprise that the
movement to our shores has not. been movement to our shores hase greater magnitude.
A volume of United Stat
reports, published in September gives tables of average wages for various classes of laborers in the principal voluminous Yor reproduction In full here but if we select as a representative
kind of skilled labor that of the carpenter, weekly
lows
lows in the several countries: Austria, \$5.10; Belgium, \$4.07; Bohemla bla, \$7.74; Denmark, \$7; England, \$7.66 France, $\$ 6.20$; Germany, $\$ 4.11$; Holland, \$4.80; Ireland, \$6.97; Italy, \$4; Japan, \$1.56; New South Wales, $\$ 14.15$; New
Zealand. $\$ 14.58$; Ontario, $\$ 11.60$; Persla \$2.40; Peru, $\$ 9.00$; Russia, $\$ 3.30$; Scotland \$6.91; Spain, $\$ 3.90$; Switzerland,, $\$ 4.74$ Venezuela, 89.84 ; Victoria, $\$ 14.60$; United
States, $\$ 15.25$. It will be abserved that the countries in which wages approach those pald in the United States are chiefly the colonies of IGreat Britain and stable and efficient government have been similar to those in this country. But in other countries, which, in many respects, have made great admany cases only a small fraction those in the United States.
The ports of this country are open laborers of all these countries except China, True, they may not be imported under contract, but if they deem the sufficient for higher wages in this country sufficient inducement to come and com-
pete with those now here for positions, there is no legal obstacle to their com ing. During recent years the migratory diminution, and facilities for migration have multiplied, while the cost has been diminished. There is apparent every prospect for continually augmenting competition for positions of employare pald and a graduer equalization throughout the world. The tendency in this direction may be contended against by all the powers of combina-
tion and by such legislation as organized labor may secure in opposition to he capitalized interests tion, but such contention must be large $y$ in the nature of a fight against the

The efforts heretofore made to promote the wage rate in this country have had, among other effects, the not disposition to seek wage employment The apparent certainty of competence fout much responsiby has seeme the risks and greater cares being one's have each claimed that its policies would conduce to yet more liberal wages for labor and to the furthe
bettering of the condition of the em
weighing prospects for the future, has naturally yielded to the temptation to arrender a portion of his independence hing," rather than by frugality ac cumulate a small capital and assum he risks of business. By reason of thi easy surrender the consolldation of properties and industries in the hands of the comparatively few aggressive ccomplished. The spirit of pride inct, or at least dormant to ago. The sons of parents who would scarcely associate with a hireling are eager for a clerkship or other employ ment at wages.
But the tendency to equalization of wage conditions in this country with hose which hes set in with apperently ncy which has set in with apparently the disposition of American freeme o take upon themselves the rsepons bility of their own employment and the desire to acquire and to hold a part of the possessions necessary to make The lowering.
heapening of wages means the and the lowering of prices of all products except those of the farm. Prices farm products may be kept up by owing to the lack of opportunity to extend areas under cultivation to cor respond with increase of population The employer who can, by other economies than that of wages, reduce his cost of production, will be spared the brunt of the conflict which is sure to ensue on the wage question, and will the expense and the opprobrium fo contest.
The farmer's boy who has wished that he could find some means to get away from the farm may well pause and consider what is before the contestants for position of salary or wages. The small excitements and doubtful emption from care and the prospect of money received as fast as earned,
are poor compensation for the life of are poor compensation for the life of
servitude, are a poor exchange for the servitude, are a poor exchange for the
ability to be independent and the opportunity to develop one's pow
aggressiveness and manhood.

BEET SUGAR IN NEBRASKA.
A representative of the Havermieyer Topeka last week, and in conversation with the writer gave some valuable in formation as to the progress of the beet sugar industry in Nebraska. The Nebraska sugar companies, whatever their local names, are owned and operated by the Havermeyer interests. The
factory at Norfolk is the largest and factory at Norfolk is the largest and
most modern. It is now working up beets at the rate of 1,000 tons every three days and is turning out granulated sugar at a profit, even at present low prices. The fact of the satisfactor ble fion of the industry is easily infer ers are this season operating the Grand Island factory, which was idle last year,
and especially from the fact that they and especially from the fact that they
are preparing to bulld at least one new factory, to be in readiness to com mence operations with the opening of the season of 1896.
The farmers who furnish beets for the Norfolk factory have 5,000 acres. The average yleld it is thought win is $\$ 5$ per ton. Placing the average yield at ten tons, it will be seen that the cash
to be distributed in that vicinity for to be distributed in that vicinity
beets will be at least $\$ 250,000$, and th the land is yielding $\$ 50$ per acre. A flat price of $\$ 5$ per ton is guaranteed for all tions cultivated according to the direc ing shown that such cultivation is sure to result in a sugar content high enough to be worth this price.
The representative referred to, who is reason why equally good beets may not as well be produced in Kanisas as in Nebraska, and thinks the experinot concluslve to the contrary.

As a straw showing the direction of the wind, in the determination of the size of the farm, I't may be mentioned that on one farm in northeastern Cologation will constitute a leading feature This is lto be devoted to the production

A correspondent asks for the experltive teeding value of Traffr corn ant Indtan corn.

AN IRRIGATION HAND-BOOK. One of the most useful books recently a hand-brok for the practical applica. tion of water in the production of crops, by Lute Wilcox, editor of the Denver Field and Farm. Beginning with a brief history or irrigation, and
following with a chapter on the advantages of irrigation, the book comes quickly to praotlcal detalls. The relation of solls to irrigation is consldtions for the treatment of alkall are such as are suggested by experience. It is noticeable that the frrigator is able to cure the alkall spots in his land. Water supply is treated in a general way and the reader is sure to wish that it had been possible to give ten times the information that is anywhere The chapter on canal construction contains some good points, but is perhaps the least interesting chapter to the Kansas irrigator, from the fact that, in general, he will have but small ditches to construct. On reservoirs and ponds the book is more applicable in Colorado than in Kansas. The chapis confined almost exclusively to descriptions of well-known forms of pipes, and while useful to the general user, engineer could wish. Flumes will come in the course of development in all rrigated countries. The discussion in the book under review will be found water are Duty kand measurement of good deal
But the most valuable part of the book begins with the eleventh chapter, which treats of methods of applying water. These are well illustrated and clearly explained. The general discussion of this subject is followed by a including in digall whot rye, Egyptian corn, beans, peas rice, flax, hemp, cotto, peans, peas, tatoes, sugar beets, turnips, beets and carrots, canaigre, and meadows. "Irrigation of the Garden" has a chapind which the treatment of every tion for the garderop is given. Irriganother chapter is iven a chapter, and and small fruits. In all of these the best practice is described, making the gardener who uses water, even in a
"All A
"Windmills and Pumps,' luable and Appliances," "Sub-irrigatices Subsolling" and "The Compation and Irrigaltion" conclude the book, with This is devoted to each.
Treatis is on irrigation really practical pearance, and, while later editions will doubtless be improvements over the present work, this book of 300 pages should go at once into the hands of every irrigator in the country.

## Grain Moth.

Editor Kansas Farmer:-A great deal wheat is damaged in thls counlty by the heav rains since harvest, and the weevll are in it. What can be done
to get rid of them? Answer through he aKnsas Farmer.
Harper, Kas
The lbest thing ito be done is to thresh bin with carbon bisulphide. gested plan indeed the ading off the "weevil," gif the "weevil, means the grain moth.
State Agricultural College.
Kansas Oity--Oincinnati.
(Wabash and B. \& o. s. w.) A vestibule sleeping car leaves Kansas
City Union depot every day at $6: 20 \mathrm{p}$. m . Vla the Wabash rallroad, running through to Cincinnati, O., without change, via B
$\&$ O. S. W. railroad from St. Louls, arriving in Cincinnati at 11:30 next morning,
making the run in seventeen hours and ten minutes, the fastest time ever made On this same train are through sleeper
to Washington, D. C., Baltimore and Phil adelphla, and passengers for points eas of Cincinnati can step from the Kansas City-Cincinnati sleeper into the through sleepers any time after leaving St. Louls, leave the sleeper at North Vernon at $9: 3$

For Kentucky and South this sleeper Is
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The Wabash is the only road offering The Wabash is the only road offering
thls thrugh car service. Sleeping car
berths secured at Wabash ticket office, Ninth and Delaware streets, or write to H. N. GARLAND,
Western Passenger Agent,

WEEKLY WEATHER-OROP BULLETIN Weekly Weather-Crop Bulletin o the Kansas Weather Service, for week ending September 30, 1895-T. B. Jennings, O

CONDITIONS.
Fair to good rains have fallen in the northern half of the western division; fond and mortheastward from Staftord to the Nebraska 1ine; in Leavenworth, Johnsom and Mdami, and in Labette and Cherokee, and Milint trails generaily, with but few exceptions, In the other coun-
ties. The temperature changed rapldiy tles. The temperature changed rapldyly
on the 22 d and has beem deoldedly cooler on the 22 and has been decldedly cooler
than durimg the preceding two weeks, than during the preceding two weeks,
though the 25 th was very warm. Killed ove wh light frost in the east hall.
results.
EASTERN DIVISION. Wheat-sowing, with apple, corn and
hay harvest, now dn progress. The early-sown wheat and aye are coming up. Hayling is about dione, and cornhusking is becoming general. Apples are rotting badly, and were largely blown off the trees during the week.
No damage was done by the No damage was
Allen county.-Everything ripe; huskang begun and yleld found to be good. eown coming up; corm nearly ready to crib, husking whi begln next week; feed abundant.
Cherokee.-A pleasant week; haying well done; seeding und ground dn good conditition. hay; frult rotting drying; still cutting thay, 8th, and the fruit trees out in bloom again; potatoes rotted bady; every one
repaiding damage done by the storm and high water.

 actual rainfall for week ending september 28.
but ground it
23d and 27 th.
some frost and high wind but no dam-
Elik.-Dry, meeding rain for pastures
and sprouting wheat; frost on 23d, no damage.
Franklin.-All crops maturing well;
applea not keeplng well. applea not keeping well.
Greenwood. - Marked change
weather, followed by hdgh wind.
Jackson.-Cool, blustery week; apples Jackson.-Cool, blustery week; apples
still blowing off; farmers preparing to thusk comn.
ing and fall plowing.
Labettel Mowing. Cheat-sowe-Much frult blown off on 22d; wheat-sowing in progress, though much
plowing yet to do; wheat first sown is coming up micely.
Leavenworth. -Much cooler since Sunday; not much wheat sown yet.
Marshaill.-All crops maturing in good ing; frost on 23, but did not injure tomato vines.
Miami.-First frost of the season on
23d; no damage 23d; mo damage.
Montgomery.-A cool week, with two 1 ght drosts; willd grass pasture better than ever before at this time of year; apples falling badly.
Morrls.-Fa
eral punposes.
Pottawatomle.-Haying nearly done and a good crop, fine quality; apples
falling and rotting badly; wheat-sowing and cornhhusking have commenced; weet potatoes are a fulli crop. Wheason.-Fine week for all work; fine: fine; corn-huskings, some fields dry hilckory nuts very plentifur dn the woods; sweet potatoes all went to vines; apples; have rotted on the itrees badly, crops
ble for all kinds of work; frost has done but little damage; it is most too dry for plowing; very little wheat has been sown; grasshoppers are numerous; late
corn not doing so well as was expected Washington. - Hay is still being put up; it is a good quality, and making a fine yleld.
Phillips.
w
WESTERN DIVISION
Cool, dry week, though rain and snow fell in the northern counties the first of etation. Fall plowing and seeding progresses slowly, and several praing fries have oocurred on account of the dry weather.
Finney.-All tender garden vegetables killed iby the frost; 'the alfalfa and Kaffir corn have also been injured.
Ford.-The fall plowing is delayed by the dry weather.
Hamilton. -On the 23d and 28th fce formed a quarter of an inch thick; there has been muoh high wind.
the first frost on the 23d; willd geese flying southward.
Norton.-Some raln fell on Saturday
night; had a frost on Sunday night; fail work is progressing nicely
Seward.-Weather is warm and very dry; all vegetation is drying up; several prairle fires have occurred.
Sherman.-We had a
21st and 22d.
21st and 22d.
Thomas.-
Thomas.-The past week has been snow and rain fell on morning of the 23d; but little damage has been done by frost.
Trego.-There was a kllling frost on the 23d; fields of late corn and Kaffir is very dry all ane gathering in their is very dry
winter feed.
Wallace.-Threshing is progressing a good corn crop has been cut; no wheat
has been sown, but the ground is in good condition.
NOTE. tin for this season.

## Ioc-House on the Farm.

Editor Kansas Farmer:-I have watched the asncura papers for a long time for some hint on how to
build an ice-house out on the prairie, buhd an ice-house out on the prairie,
where we have no sawdust, tam-bark, where we have no sawdust, tan-bark,
etc., and seldom any shade or sheltered spot. I can find hints on farm gates, feed-racks, and, in fact, most every such thing, but anything in the lee-house
tine, sultable for our wind-swept WestIine, suitable for our wind-swept West-
ern farms, I have yet to see. In my ern farms, I have yet to see. In my
case, I have not even a bank that I can utilize for drainage where I want the house, but tt all has to be above ground.
Roxbury, Kas. ${ }^{\text {E. W. BLAINE, P. M. }}$
The following remarks are from an exchange:
"As to size, about forty cuble feet of will afford on thdication as to the will afrord an niscation as to the caty tons. The best method of constructing an ice-house is, of course, a substantial structure of brick or wood, with double walls two feet apart, the space being filled with thoroughly dried cut straw or sawdust. There should also be a thoroughly tight floor dald on at ieast two feet or sawdust or cut straw,
insulating the bottom from the earth's heat, and preventing the escape of cold aar downward, which would of course be replaced with warm air from the top, thus creating a current which would cause rapid melting. The door should be double and well towards the top or the building, so that it will not be an outlet for cold air. In building an icehouse or any kind it is to be remembered warm air out but the cold air in since if the cold air is kept in the warm air will stay out of its own accord. The building may be as neat and as well constructed as the means one desires to put into it will permit, but it is not necessary to buill expensively. Ice may be kept very cheaply It may be stacked on a layer of sawdust two feet thick, A location should be seleoted under trees or at the north slde of a bullding, and ralls, waste lumber, poles or the like may be laid down on which to place the sawdust, dry shavings, cut straw or
other non-conductor. On this pack the ice as closely as possible, ibreaking joints, and give the ice a slanting pitch comes its tendency will be to sulde in ward instead of outward. Make the stack iroad, long and low, as the sides are then more easilly protected. After the stack is made, put up a close boand rence around it, say two feet from the
ice, and fill the space between with the best non-conducting material at hand taking care that it be as dry as possias to keep out the summer rer this so very effectually preserve the ice in sum mer. An opening should be made at the top, as melting is rapid if tee be taken from the side.
"If a more permanent but still inexpensive method be required, select a lo-
cation that will drain easily, and if cation that will drain easily, and if
necessary tile the site, but do not have necessary tile the site, but do not have
the tilie drain open up into the bottom of the foe-house, or it will permilt the es cape of the cold air as it settles, and Sills may be latd on the ground or a foundation wall built for them, and care must be taken that there is no es-
cape of air below. The building should cape of air below. The building should
be broad and long, rather than high. be broad and long, rather than high.
Double walls are not necessary. Cheap Double wails are not necessary. Cheap
board slding with the cracks battened will afford sufficlent protection, and the roof should be sufficiently close to keep out the rain, and should have a ventilating well in it. Betwo feet $n$ the ice, lay roconductin material at hand. Sawdust is the mosi easily handled, but chaff, cut straw or
even whole straw or prairle hay will answer. Then put in the fee, packing and break the tints they rise. If cut straw or chaff is used the ice may be lald to within sixteen whole straw or hay is employed, two feet would be better. Pack the space between the ice and the walls with the
non-conducting material and see that non-conducting material and see that
it is well trodden down. The door may be made in two halves, an upper and lower, and short boards should be put across the inside of the frame to sup off the door. There may also be a smal door in the gable to do the upper pack ing, and to take out the eariler supplies

## FREE MEDIOAL BOOKS. The $\mathrm{IH}_{\mathrm{s}}$ of Life.

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Tho Pora-na Alan for 1896.
The Pe-ru-na Almanac for 1896 ds one sued. Ask your druggist for one in' thme for him to procure them before the ne year begins.
of fee. Alfter the fice house is filled,
cover with a cover with a foot or sixteen inches o
the non-conductlng the non-conductling material wel arainage at the bottom, and at the good time keeping the cold, air from pasing out beneath, close packing with plent of non-conducting material around, be neath and above, and ventilation at the top to permit the escape of the mols air which latent heat may cause to ris If If the ice-house be constructed upon these principles it will generally be the arehitetural hout much regara ture. With respect to this, one may con sult his taste and pocketbiook.

Eli Perkins Estimates Oorn and Pork. The Cincinnati Price Current gives place to the following letter from the 22: last week in 'August, and as usual estimaated the corn crop for the New York
Sun and the New York Produce Exchange
During my first trip in August I saw only the good corn. It was in M11inots, Nebraska, Iowa, Missourl, and western graphed back: "We will heve col graph."
It was then that $I$ estlmated the crop at $2,600,000,000$ bushels.
The very next week I struck the bad corn. I saw corn for seventy milles in all directions Yrom Lincoln, Neb., burned on the Wabash, I saw corn burned badly, from fifty miles south of Logansport to Indianapolis, Columbus, Dayon, on to Cinicinnati, and all over the Little Mitaml valley.
Then I saw great hurricanes from Newton to Wichita, Kas. The corn Was ruined with hail and floods. One
hundred million bushels were drowned hund
out.
The
he corn saw chinch bugs destroying pring around Decatur, Galesburg and Springifield, III. They stopped the train. were in southern Ohto and the chinch bugs were devouring the corn in the very garden of Illinols.
Then tears almost came to my eyes When I had to telegraph to the New Wust drop from $2,600,000,000$ to $2,000,000$,000.

100,00, 20 the con crop will be about $2,100,000,000$ bushels, and will
million bushels out of the way.
Corn will bring a good price, because there is a universally poor crop of hogs. Hogs cannot go below 4. cents on foot, have been killed since the Willson lill killed the wool tariff.
Two billion, one hundred million bushis is more than an average crop. At
35 cents a bushel it will bring s700,000,000 , while the $9,000,000$ bales of cotton raised last year only brought $\$ 225,000,000$ t $\$ 25$ a bale.
Do you know how corn is burned from ? MELVLLE D. LANDON.

## §orticulture.

How Muoh Land is Devoted to Fruit Oulture in the United States?
While there is so much sald about the extent of fruit culture in this country, my opinion is that the reader will be surprised to learn how small is the proportion of American soll devoted to
this industry. In order to give a faint idea, I have drawn a map, which is given herewith, in which 1 have attempted to mark the area of land in the United States devoted to fruit culture, land, etc. I have not attempted to be exact, knowing that it was practically impossible to arrive at any absolute data on the subject.
In constructing this map I find it diffoult to mark a strip suffciently small to indicate the territory devoted to frult culture. The strip shown on the map
as that devoted to fruits is too large, but it is the nearest approach that the artist could construct. extent of waste land as shown in space marked No. 1 on the map, and yet there is no doubt that as large a proportion of the United States is covered by forests, mountains, desert, swamps, rocky ander he head of waste lands, although forests are not properly such.
No. 2 is devoted to the various spring crops, such as oats, barley, flax, buckcrops, such as oats, and other crops than those named on the map.

- No. 3 is intended to indloate the proportion of land devoted to wheat culture. While wheat is consldered our leading staple, comn very closely rivale it, if indeed the corn crop should no
prove to be quite as valuable as the prove to be
amount of land in this country devote

to corn-growing. One reason why corn does not figure so extensively in our statisticians' reports is that so larg quantity is consumed on the farm. No. 5 represents the amount of land on the United suates devoled to growing cotton. I suspect that possibly too
territory is allotted to this staple.
The smallest division of all, that dark space, which is but little larger than the from the others, is intended to represent the amount of land in the United States devoted to fruit oulture. This hows at a glance that fruit cultur n this country is in its intancy, fo the success in every line of fruit culture both north and south, east and west, the amount of land occupled by this industry is insignificant. It will need no prophet to foretell that in the years to come a much larger area in this country is to be devoted to iruit. But you esk, What are we to do with it?"' My reply is, that in the first place, our population one avenue for consumption; in the secand place, our people will be led to conoume much larger quantities as prices get within their reach; in the third place, we will adopt methods of canning and preserving not now known or not now practiced, by which every coun'try in the wrold. Att present the United States is supfiges, currants, prunes, largely fram other countries. We are also importing largely lemons, oranges, pineapples, bananas, and other tropical fruits.
If the map illustrates the small measure of attention which fruit-growing is receiving at the present time in this country, as compared with what it might, or what it will, the object of Green's Fruit Grower.

They are the weakest, however strong,
Who have no faith in themselves or their
powers.-Bovee.

## Tent Oaterpillars.

Editor Kansas Farmer:-The discussion in the paper about the web-worm reminds me to speak about the "tent to the fruit trees in some places some twenty-five years ago. The people not understanding their nature, or the damage they would do, let them in crease until it took immense labor to deatroy them.
otal annihilation of every caterplllar, whenever found, is the only sure
remedy. Having been in Kansas nineremedy. Having been in Kansas nine-
teen years, I saw the first nests of them this year-one on a apple tree and on on a cherry tree. It being convenient the limibs on which they were "tented" were sawed off and burned. That can not always be done, but some way to destroy every one of them should be de vised, for one hour's work on the first any will save days work next year. any he should lose no time in their destrue should lose no time in thei into the chrysalls state look for egg in winter or early spring, when they can be destroyed. They are of a brown color, in clusters, and are gummed to
or near the end of small limbs. "Eteror near the end of small limbs. "Eter nal vigilance" is the price we have
pay for fruit.
AUNT POLLY.

## The White Elm.

Bditor Kansas Farmer:-Far orna mental planting in Kansas there is $n$ ree that surpasses the white elm. I is perfeotly hardy, standing all the peullar weather prevalling in this re fast grower Notwithstanding the eneral impression that the tree grows very slowly, any one who will take the trouble
beautiful streets of Topeka, lined for miles with well-developed specimens glving twice the amount of shade that other trees of same size trunk give, whl e thoroughly convinced that
After the elm to once stant
Anter the elm is once started it grow ing Itmbe where they will do the mos good for the coming season. They many people plant them just twice a close as they should be. The long. reaching limbs and general spreading habit of the tree makes plenty of room a ne-
cessity for a proper development. By planting close together, they grow otraight up, making tall, slender tree with a correspondingly small top.
I have a queer specimen, five years old, from seed. When the tree was one year old, I moved it from its birth-
place. My experience in a financlal place. My experience in a financial way at that locality was not pleasant o I thought 1 woula take up the sma to my present location as a remembrance of the old place. We planted it in the back yard, where it could be seen from the dining-room window. It has grown beautifully, is thirteen feet high and has an angular top, spreading
ten feet. As yet, there is not shade, but ten feet. As yet, there is not shade, butd
the outline for a beautiful tree could not be improved on. I have given it only fair care, and have not trimmed one single branch but shall do so in the near future.
The cost of young elm trees should be nly the digging, etc., as they come up in large numbers near seed-bearing trees. Take them when from three to pla feet ihigh. The trouble of transplanting does not amou Nunsery-grown trees can be got at
very low price. GEO. W. TINCHER. Topeka, Kas.

Thayer's Berry Bulletin for October.
Winter protection is an absolute neessity for growing small fruits successbe practiced in every locallty where the temperature reaches zero or below. With the high cultivation now practiced, a large and tender growth stimulated; hence the greater necessity to maintain as uniform a temperature as possible throughout the winter. Even
in locallities where plants show no injury, and among those considered most hardy, the vitality is often affected, and the succeeding crop very much reduced.
The best winter protection for blackberries, raspberries and grapes consists in laying them down and covering lightly with dirt. All old canes and burned soon after fruiting, leaving only strong vigorous plants. If plants have been well mulched in summer with green clover, clean straw or coarse manure, as they should be, less dirt is required by using this mulching.
In daying plants down (the rows running north and south), commence at
the north end, remove the dirt from

AROROR,
ATLANrio
 BRADLEXY Pitsburgh. Broozchyort Mor COLLIER SEW Louls. CORNELI , BAVIB-OHAFABERE,
Pittsburgh. $\underset{\text { Eargrenk }}{\substack{\text { Pittsburgh. } \\ \text { Cinclinnati. }}}$
 JEWETT,

## EERTVOKY, Nor

## JOHR T.LEWISEBROB

MORLEX,
uIssourI ${ }^{\text {St. }}$ Levelais.
RED BEAL Louls.
sALEM, $\frac{\text { St. Louls. }}{\text { Salem, Mass }}$
BHIPMAK ${ }^{\text {Chicago }}$
SOUTHRER ULSTER,
union,

## The Reason

why some dealers try to sell, and some painters use, other than genuine brands (see list) of White Lead is that their first cost is less. Quality should be the first consideration, and is the true economy.

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the north side of the hill about four nches deep; gather the branches in close form with a wide fork, raising it toward the top of the bush and press sently to the north, at the same time placing the root firmiy on the base of north. If the ground is hard, or bushes old, a second man may use a potatofork instead of the foot, inserting same deeply, close to south side of hill, and press over slowly, bending the bush until nearly flat on the ground. The bush is then held down with a wide ork until properly covered. The top base of preceding hill, thus making the continuous covering. This process is an important one, but is easily acquired with a little practice. In the spring, remove the dirt carefully with a fork, and slowly raise the bush. With hardy varieties, and in mild wintens, sufficient protection may be had by laying down and covering the tips only. Grapes, being more flexible, are laid down
There is no more important work on the fruit farm, or garden, than winter protection, and there is no work more generally neglected. Let it be done thoroughly, after frosts have come, and before winter sets in.
Strawberries grow rapidly in October, and make many weak plants. Remove all runners starting this month, allowing lour or hive inches square spar best fruit. Mis. This M. THAYER,

## Sparta, Wis.

$\qquad$

## Larger Peaches.

Mr. J. H. Hale, one of the greatest peach-growers of the United States, in speaking of the manner in which he ported as saying that one must thin by hand. He puts stepladder under the trees and puts boys on them whose bump of destructiveness is large, and tells them to go ahead. He begins when the peaches are three-quarters of an inch in diameter, and takes everything that is curculio-stung and diseased. These he carts away and burns. The rest the ground and left there.
In future
old parh trees shall three or four250 peaches; four or five-year-old trees not over 300, and full-grown trees not over 500 . That means six Inches apart; 500 peaches on a tree will make six or eight baskets of fancq fruit. Three thousand peaches to a tree won't make
more, or sell for more money, and the more, or sell for
trees are rulned.
Peach trees are planted on good or dinary corn or wheat land in a fair state of fertility. The holes for the neeessary to recelve the roots and a big handful of fine ground bone is scattered the bottom of the hole and two o
three more on the dirt, and that is worked in around the roots at the time he tree is planted. Then is put on muriate of potash. The next year is per acre of fine ground bane and from 400 to 800 pounds of murlate of potash, or its equivalent, and this is kept up every year whether the trees bear or not. "It is pretty liberal feeding, but it pays to be liberal with trees," says Mr. Hale.

## Winter Wheat in Ontario.

The Ontario Experiment Station gives the following conclusions from its ex1. The average results of winter-wheat growing on the experimen'tal plots for six years in succession are as follows: Welght of grain per measured bushel 60.6 its.; yield of straw per acre, 2.5 tons, a
2. Dawson's Golden Chaff gave the largest average yleld of grain per acre among fifty-three varieties of winter wheat grown at the Ontario Agricul tural college for four years in succes sion; also among nine leading varieties eleven lading varieties tested ove Ontario in 1893
3. The varleties which possessed the stiffest straw among fifty-three kinds of winter wheat grown for four year in succession, were Dawson's Golden Chaff, American Bronze, Fultz, Velvet Chaff and Red Russian.
4. The varieties of winter whea't which proved the hardlest in 1895, among one hundred and two varieties Stewart's Champson's Golden Chaff Square Head, Turkish Red and Mc Pherson.
5. When winter wheat was sown late than September 9, the crop was much poorer than when the seeding took place n or before that date.
6. In 1895, the varieties of winter heat possessing bald heads and white of grain per acre more than the var etles possessing bearded heads and red grain, but in average welight per meas ured bushel the latter surpassed the former by 1.3 pounds.

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In the Dairy.

## 

## A Tale of Two Oows.

"Where am I at, who made me, and What am I good far? tis what I wish some one would let me know," waidd oughbredi Short-horns, standing under the wainut trees trying to swliboh the horn-flles off their backs. "I ain't as good looklin' as they are by a long shot.
My thorns are as ugly as sin amid turn up in a most aggravating way; they hookin'. They tell me I have a beastly mixtune of colors, neither black nor
red nor white nor roan, nor a decent mixture, even, and I heand one fellow say, as he looked us all over, thati I was melther fish, mor flesh, mor good red herring, whaitever that mayl mietami The
butcher says I am too shelly. The boss says I am N. G., which I suppose means no good. The madam says my millk is as blue las am indigo-bag and fit onily to sell to town' people. What hurits me most tes that the call-buyer threw out
my steer calf last year, saying it would never payy for dts feed, and took all the rest. To me the was the dearest call In the whole lot. I eat jusit as much tt dion't do me any good, and why I can't please the boss on the madlam, ds more than I can tell."
Brindile, the family you," said Old nurse to the iamiliry millk cow and wet Ther horn in the latch of the gate thalt led to the ganden and seemed to. be
studying the combination, "lis that you are an experlment in oross-breeding, and so have your dam and granddam
 Into thime breathing world, scarce half And made up ipmely, and unfashtonable "That's what's the mlatter with you much to brag of, in fadt, Hke old Mel chizedeck, I ain't got any at all. I am just a cow, that's all. I hold my situation because I am a good milker and know how to rustle for myself. I like
pedigree and blooded stock when they are straight and not all mixed up Strange bloods always figh' in cows matched they make a bad mess even I knew your granddam well. She was a Short-horn and cost $\$ 500$. She gave this family, on; but the madam said she was no good for cream and they took mine instead. Bill Jones sald, one day when he was helpin' thresh,
that Jerseys gave one-third cream, and that Jerseys gave one-third cream, and
so the boss took her over to Jones' and the next year she had a Jersey helfer calf that was to give as much milk as was experiment No. 1. She didn't give much milk, but it was fairly good, and the boss said he would try again, and that a dip of the Holstein would make the next calf all right. You are that
calf. That's what makes you shelly and a mixt in whe colors. There good blood in you, in fact it is all good,
but of too many kinds and they are all fightin' each other, and the result is you've got scrub horns, because the or shape, and so the old scrub blood slipped in and made the horns. They fought over colors and that's why you are so badly mixed up. They falled to make you elther a milk cow or a bee failure. You are not hardy and you're not pretty; you're not a good feeder no a good milker, and you hiaven't the 'get there, Ell.' You ican't open gates and you can't boss this ranch the way gin with You wasn't made right to beis to blame. If he had known half as much as he thought he did, he wouldn't have made the experiment. I would I'd be better lookin'. I wouldn't mind bein' a Jersey, because $I$ 'd be petted and wouldn't need to open gates. I' like to be a big Holstein; but if I can' be either I'd rather be a scrub, least wise I'm thankful that I haven't any different bloods fightin' in my veins. gate now, and if you'll stay by me next Saibbath when they are all gone to meetin', we'll have some nice new corn the wiser. But mind; mum's the word. It's not safe to know too much about this ranch. The boss thinks he know
it all, and what he don't know about hery Gazette.

## Quality of Batter.

One of the worst difflulties to overcome at the outset is to convince the
maker that the butter they are mak ing and selling at 10 or 12 cents a pound is not equal in quality to that selling at 25 and 30 cents. Once thoroughly do away with this prejudice that one's butter is as good as another's and a
long step toward improvement has been long step toward improvement has been that one sells readdly at a good price while the other is difficult to sell even at a low price, should be sufficlent vidence to start an dnvestigation as to eason, and once thoroughly interested n knowing the reason why some butter sells so much better than others, it is easy to get atarters to follow improved
methods. It does not require peovila conditions to make good butter.

## Dairy Yields.

It is always a pleasure to us to note he fact that thls or that dairyman has Mr. E. R. Towne, ldving in Vermont, re ponts to Hoand's Dairyman that he has milked, during the year pnding May 1, 895, thirty-five cows and helfers, Jerseys and high grades, from which he has sold milk whioh mede 10,638.34 pounds of butter. Good for Mr. Towne! They had rass alone in the summer and in addtion to the paeture consumed elght acres f crimson clover between July 20 and September 1 . He began feeding green all they would eat of green corn and corn silage untll May 1 . He reports that he had some cows that made 600 pounde of butter, but the average was pulled down by good cows which failed to come up to the standard of the year betore and five heifens whic
to come up to the expectations.

## Dairy Notes.

A calf from a thoroughbred bull to worth $\$ 10$ a $y$
Do you raise calves from your best ows only? If your best cows make $\$ 10$ a year more than your poorest
this ds 5 per cent. initerest on $\$ 200$.
Exposure to cold fall cains and chilly ights will cause scours in calves. The fortable, well-bedded shed in which to sleep.
Dairy Commissioner Boandman says here is but one dealer in Iowa who garine. A vigorcuse to sell oleomar the law was all that was necessary to lean them out.
Nothing is more helpful in allaying inflammation in 'the udder than frequent bathing with hot water, as hot as can
be borne to the hand. If the udder is seriously inflamed steam it and apply lannel dipped in hot water.
The price a creamery pays for milk depends in a large measure upon the milk reaches the creamery sweet and in good condition good butter can be made from dt. The butter sells at a fadr price for the milk.
Prof. Wilson, of the Iowa Agriculural college, is growing four or five iffenent crops for feeding to dairy cows this winter and has outlined a very elaborate series of experiments along dairy
innes. The work whll be malnly for the purpose of determining the effect of different foods on the quallty of butter.

## What a Woman Oan Do.

I want my lady friends to know of the new fild now open for them. In the past six months we have made a profit
of $\$ 907.02$ after paying all expenses. All our sales have been made at home, not having canvassed any. amy official duiles calling me away most of the time, left the Dish Washer business in my Wife's control with the above results. The business is rapidly increasing, and will continue to grow until every famiy has a Perfection Dish Washer. Not a some days firteen or twenty dish-wash ers. It's easy selling what everybody wants to buy. You can wash and dry the dishes perfectly in two minutes. For full particuCo., Drawer a-3, Englewood, Ill. Get a ample washer and you can't help but may just as well be making $\$ 5$ a day as to be doing nothing.


Publioations of United States Department of Agrioulture for Angust. NOTE.-The Department has no list to
whom ail its pubhacations are sent. The
Monthly List of Publlioations will be mailed whom ail its pubhcations are sent. TTe
Monthy List of Publioatlons will be mailled
to all appllicants, from which they may
select only such reports and bulletins as arect likely to buch of inports and bulleting as
wlil be maile to theirest to them, which
of their application on recelpt of their application to the Secretary oof
Agricurture Washington, D, Cexcep for the maps and bulletins of the Weather
the excent for
Bur Bureau; requests for these should be di-
rected to the Chled of that Bureau. The
serigi serial publications or the Department are
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regularly the serial desired.
Production and Price of Cotton for One
Hundred Years. By James L. Watkins,
Speclal Agent. Monthy Crop Report-August, 1895 . of the appended to a part of the edition
rates, ast required the transportation
certain nailr, together with certadn railroad and transportation sta-
tistics.
Historical and Tochnical Papers on Road under the direction of Roy stone, Special Arellminary Report on the Food of
Woodpeckers. By F. E. L. Beal, Assist-
ant Ornithologist Woodpeckers. By F. E. L. Beal, Assist-
ant Ornithologist. The Tongues of WOod-
peckers. By. F. A. Lucas, Curator De-
partment of Comparative Anatomy, U. S. partment of Comparative Anatomy, U. S.
National Museum.
The Geographic Distribution of Animals and Plants in North America. By C. The World's Market for American Pro-ducts.-Great Britain and Ireland. 189. A Repont on the Cultivation of Ramile Dodge, special Agent. This bulletin also
contains statements concerning the practice in forelgn countries, cost of cuitiva-
ton and percentages or yiteld, the ma-
chine question, and preparation of the abre for manufacture. Diseases on Paciflc Coast.
Grape De By Newton B. Plerce, Divlision of Vege
table Physiology and Pathology.
Affaifa, or Lucern. By Jared G. Smith, Aifaifa, or Lucern. By Jared G. Smith,
Assistant Agrostologist.
Souring of Milk and Other Changes in Milk Products.
The Grain Smuts; Their Cause and Preant, Dlvision of Vegetable Physiology and The Federal Meat Inspection. By D.
E. Salmon, Chief of Bureau of Animai The Dairy Herd: Its Formation and
By Henry E. Alvord. Management. By Henry E. Alvord.
The Pasteurization and Sterlization of
Milk. By E. A. de Schwelnitz, Blochemic Laboratory, Bureau of Animal Industry.
Dairy Baoteriology. By H. W. Conn,
Professor of Blology in Wesleyan UniRersity, and Regulations Governing the
Rules dustry; also the Acts of Congress Under
Which They are Made, By D.
mon, Chitef of the Bureau of Animal InMineral Phosphates as Fertilizers. By
H. W. Wiley, Chemist H. Wome Scale, Insects. of the Orchard. By
L. O. Howard, Entomologlst. O. Howard, Entomologist.
The More Impportant Insurious
By Stored Grain.
In Insect Life. Vol. VII, No. 5. (Not for general distribution.). No. $\begin{aligned} & \text { Not for } \\ & \text { A Note on Experimental Grass Gar- } \\ & \text { dens. By Jared G. Smith, Acting Agros- }\end{aligned}$. dens. By Jared G. Smith, Acting Agros-
tologist. F. Lamson-Scribner, Agrostologist. By in the United States. ${ }^{\text {By A. C. True, }}$ Bions. Roads for Farms and Farming Dis-
Bricts. By Roy Stone, Speclal Agent and Engineer. Bulletin No. 7. Aceessions to
Libr Depary
Dhe Deplent Library, April-June, 1895 . What Meteorology is Doing for the of the Weather Bureau. Enciphering Reports at Cotton-Region and
Sugar and Rice Stations of the Weather Bureau. (Not for general distribution.)
Monthy Weather Review. Annual
Summary Summary for 1894. Rer Review-February,
Monthly Weather Charts of the Weather Bureau. Weather
Crop Bulletin (series of 1895), reporting remperature and rainfalls with special
reference to their effect on crops. (Nos $21,22,23$ and 24 for the weeks ending Au-
gust $5,12,19$ and 26
Seml-daily Weather Map showing weather conditions through-
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interested in increasing the demand thereThe forelgn lands of Mcology, Vol. VII, No.
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ple, Pear and Other Fruits, with a spectal consideration of the subject in its relaThe World's Markets for American Pro-
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## Che Beterinarian.


#### Abstract




SWELLING ON HORSES.-I have a mare that has a swelling on her breast and wetween her furpentine and lanced it, but it don't scatter. I have another filly that has never been kicked or hurt in
any way, to my knowledge. A: W. M. any way, to my kn
Answer.-Your mare has evidently re ceived an injury to the part in some way. Bathe three times a day with ho water, faridine blister, and when pus canthariaine be swelling and let it out and the sore will soon heal.
PIGS DYING.-I have some pigs, sores and scabs on the sides of thel heads. I washed them and used car bolized grease and they thealed, but some got dumpish in a day or two and had what we call the thumps, and after a few days died. I have lost five, and there are still signs of disease among a catalogue of the latest publications on swine husbandry. A. R. J. Roxbury, Kas.
Answer.-Your plgs probably have hog cholera in a mild form. Follow the treatment given to W. T. R. for the same disease in the last issue of the Kansas Farmer. There are no very new books on the care of swine. "Swine Husbandry, by Fo any. Have your local book dealer order it for you.

One is scarcely sensible of fatigue whils he marches to music. The very stars ar cald to make harmony as they revolve
their spheres. Wondrous is the strength of cheerfulness, altogether past calcula
tion its powers of endurance.-Carlyle.

We never can say why we love, but enough at felgning excuses for all that it oes or imagines of wrong; but ask
o give a reason for any of its beautifu and divine motives, and it can only look

## ATTENTION.

should be given at once to any symptom or signs of
disease as Boon as they mantfest themselves, By
so doing you may mave much suffering and expense. so doing you may save much suffering and expense.
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## THE STRAY LIST

FOR WEEK ENDING SEPT. 18, 1895.
Rice county-Robert Findlay, clerk. MARF-Thken np by A. N. Hays, of Frederiok
Auguat 31, 189\%, one bny mare. five feet reven incheo Labette county J. F. Thompson cled at 815 . Labette county-J. F. Thompson, clerk.
8TEEER-Taken up by Thomas Ryan, In Mount
leasant tD., August 29,1895 , one red and whte



Brown county-J. V. McNamar, clerk.
 ste 812 . point of tail whe, hole in left ear; value
at Cherokee county - P. M. Humphrey, clerk PONY-Taken up by F. F. Burgas, in Spring Fal-
ley tp., one borrel nonym mare. shod all round, white
spot in forehead, halter and strap on, FOR WEEK ENDING SEPT, 25,1895 Pottawatomie county-Frank Davis, clerk HORSE-Taken up by Fid. Atkinnon, In Union tp september 12, 1895, one dark bay geiding, id year
old, fourteen hand high,
head; Russell county-Ira D. Fleck, clerk. FIVE CALVES-Taken up by J. A. Householder
in LIncon tp. P. O. Rusent, September 13.1 . 1895 , give calven, about 5 or 6 months old, as follows
Three black heifers, one red helfer an one re
steer; no marks or brands; valued at 825 . Cheroke no mant P- Mumphrey Cherokee county-P. M. Humphrey, cler

 tp, one bay mare, A yearre old, nranded Fon on lef
hip, white on right hind foot; valued at $\$ 15$. FOR WEEK ENDING OOTOBER 2, 1895 Labette county-J. F. Thompson, clerk. MABE-Taken up by John Byrum, In Howard to.
Augut 15 , i899. one black mare, fourteen handis
 Bourbon county-G. H. Requa, clerk. MARE-Taken up by C. . F. Shaffer. In Fredom

p.., one black mare, 4 years old, about fifteen and one-hnif hands high. star in forehead, and wha | seems to |
| :--- |
| valued at $\overline{2} 5$ |



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MARKET REPORTS．
Kansas oily live stook．
 tee，119 calves．The market was generally slow and steady on steers and weak on sow
The following are representative sales：



 Hogs－Receipts since Saturday ．．．，779：shipped
Saturday．Ae The market was so higher．The
following are representative sales n vo shipped Saturday，1，4ie．The market was slow
and 100 lower in some cases．The following

 done in horses today outside or regular pro－
vale sales．The reeolpt are in or easing and the feeling among the traders is Arm．The de－
mana will be fair when the market opens to－ morrow．A good many out of town buyers
came in and are inquiring for good heavy draft and smooth drivers．Prices are nom ally steady．

Chicago Live stock．
Sept．30．
CHicago，Sept．30－Cattle－Receelpts，20，000： market steady：good grades strong：common
 cows and bulls， 81.25 © 93.50 ；Texas， $82.7 \overline{1} 1883.00$ ： ${ }^{6}$ Hern，
prices averaged so higher：light， 8.850 prick es average 3 ${ }^{\text {packing．}} 8$ ©4．45：heavy packing and shipping，84．05 94.40 ；
 $81.50 \underset{20.80 ;}{ } 1 \mathrm{lambs}, 83.00 刃 4.76$ ．
st．Lents LIve stook．
ST．Lours，Sept． 30 －Catule－Recelpts，5，000；
 heavy，84．00＠4．30；mixed，83．80© $94.00 ; 1 \mathrm{lght}$ ， 44.00
Sheep－Receipts，1，000；market steady．
Chteago Grain and Provisions．
Soph．30．Opened High＇st Low＇st Closing

## 

Kansas City Grain
Kansas City，Sept 30．－Wheat by sample day．Some grades went rather slowly．A much larger proportion of the receipts than usual were hard winter wheat and the receipts were larger than expected，
ago， 52 oars．
Sale of ear lots by sample on track，Kansas City：No 2 hard， 12 cars $60 \%$ o， 15 cars
6010,1 oar 60 ．No． 3 hard， 1 cars oholes
 cars 580， 3 cars 550,8 cars 530,1 car 520 ：rejected
1 oar 400,1 car 410, oar $42 \% / 10,1$ oar 430 ；sot t
 Ne 4 red， 1 car 520,2 e cars 550,1 car $65 \% / 30,1$ oat

$(5) 4$MORSE BLANKETS

5／A BAKER BLANKET． Many Have Worn 16 Years．is WM．ArRIS \＆SoNs，Philadelphia．Z2I

560,1 car 570 ：rejected， 1 car 47， 3 oars 500,1
oar 510,1 car $540 ;$ no grade，nominally 309
 oars 580,3 cars $57 \% 1 / 1,1$ car 577 ；No． 3,8 cara
570,2 cars $56 \%$ ， 2 cars 560 ；white spring wheat No． 2,1 car 550,1 oar 540 ．
Corn was in fair
$1 / 30$ ，closing at the latter figure．
corn today，cars；a year ago
13 cars
Sales by sample on track，Kansas City：Na
 mixed，nominally 250 ：no grade，nominally

White oats were about $1 / 10$ lower to－day．
Mi zed sold slowly at about Saturday＇s prices for good samples，but low grades were lower． c Receipts of oats today， 55 cars；a year ago，
17 cars． Sales by sample on track，Kansas City
2 mixed oats， 4 cars 16c；No．4， 1 ear 150； 1 oar 140：no
grade， 1 car $13 \mathrm{c}, 1$ car 140 ．No． 2 white oats， 5
 Hay－Recelpts， 144 cars；market barely
steady on good grades common and poor sell very slowly：timothy，choice， 811.00 No． $1_{1}$ choice，85．50＠5．75；NO 1，84．50 5.00 ；Na $8400 @ 4.50$ ；packing hay， $83.00 @ 3.50$ ．
Kansas Kansas City Produce．
Kansas Cry，Sept．30．－Butter－Extra 14＠15c；store packed，fresh， $9 \mathrm{Z110;}$ off grade，
7 （ 80 ． 7a80．
Eggs－Strictly fresh candied stook，
doz
Poultry－Hens， $61 / \mathrm{cos}$ ：springs， 80 ；roosters， 150
Turkeys， $7 \%$ 7\％ 8y／0：under 8 lbs ．，not wanted in this market．
 ${ }^{81.00}$ per doz．
to 230 per bu；choice eating apples from 15 to to foe；fancy， $10.100 a 1.50$ ppr boles sell common
to good， $50 @ 750$ per bbl．Grapes－New York Brootons，5－1b．baskets，170；Niagara，160；
Delaware，200；Pennsylvania，New York and （a2000：wild grapes， 10.91 o per peck．Peaches－
 6－basket crate， 81.50 ．Pears－Kelter，
peck．
Cranberries， 87.50
g8．00 per bbl

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culture，Poultry，the Dairy，the Apiary，Live Stock，and in fact all matters of in－ culture，Poultry，the Dairy，the Apiary，Live Stock，and in fact all matters of in－
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## The Alpiary.

## TRAPS FOR DRONES.

An Easy Way of Gettlng Rid of
Almost any warm afternoon one may see numerous large black bees buzzing mout the hives with a noise equal to ers. These are the drones who toil not, and are useful only to fertilize the queen. As this is necessary but once in her lifetime, it is evident that by spent in useless consumption of stores. Nor is this all; as soon as honey becomes scarce in the feld the attention of many of the workers is taken up working force depleted to that extent. It is no uncommon thing to see two or more workers hauling him into exile.
It is important much work as possible, and thus economize their time. That is just what drone traps are for, and the one here illustrated is regarded almost universally as the drone trap for all apiaries. A close examination of the cut will explain the method of its use, I think, appearing as the trap does to the observer, whin pack is open sufficient entrance. The back is open suffliently to admit the bees readily, but the front is closed with a strip of perforlow the worker bees to pass through

freely, but not the larger drones. The latter, trying to escape to the outer air, crawl about in search of an exit, and wire cone shown in the center of the trap. (The latest patterns contain three cones.) This leads them into an upper chamber or apartment entirely inclosed with perforated strips, and from which there is no exit for them, except through the one by which they entered, a route they are very seldom able to retrace. In this way in the course of one or two warm afternoons about all the drones in the hive may be captured and destroyed at leisure. Or, if one does not care to kill them, an opening from the end of this chamber to the outer air, closed by a sliding tin, may be left open and the drones allowed to pass out this way. As they cannot return by this route, they are the hive. If this methom is adentering the hive. If this method is adopted, they do not simply hive. If they are killed while another hive. If they are kiled while caged see much for this "ulley trap", as it is called, as a drone excluder. As a queen catcher it is also valuable. The hence unable to pass through the perforated zinc. To prevent the issuing and departure of a swarm during the absence of the apiarist, place the trap before the entrance as for drones, taking care to see that the entrance at the end is closed. If a swarm attempts to issue the queen will either be forced back into the hive or caught in the drone chamber, and held till the return or convenience of the apiarist. Of
course the swarm is not likely to go course the swarm is not likely to go
without her.
Formerly it was considered sufficient to catch her, and prevent the departure new feature is being successfully intro-duced-a self-hiver. The top of the trap is perforated or removed for this, and a box made with the ends fitting tightly over the ends of the trap, the back consisting of the front of the hive, and thooth extending upwards, not too smooth, extending upwards; the trap, bee-tight, but with open top the trap, bee-tight, but with open top, the top of the hive. On top of this, place the hive into which you wish to introduce the new swarm. The large chamber of the self-hiver then will hive, and the swarm following their

ST. VITUS DANCE.
A Physician Prescribes Dr. Mlles' Restorative Nervine. Dr. Miles Medical Co., Elkhart, Ind.:
My daughter Mattie, aged 14, was afflicted last spring with St. Vitus dance and nerand nearily paralyzed. We consulted a phy

sician and he prescribed Dr. Miles' Restorative Nervine. She took three bottles before we saw any certain signs of improvement, but after that she began to improve very She has taken nine bottles of the Nervine but no other medicine of any kind. Knox, Ind., Jan. 5, '95. H. W. Hosterter. Physicians prescribe Dr. Miles' Remedies because they are known to be the result of the long practice and experience of one of the brightest, members of their profession, and are carefully compounded by experienced chemists, in exactaccordance within On sale at all druggists. Write for Dr .
On priptions, as used in his practice Miles' Book on the Heart and Nerves. Dr. Miles Medical Co., Elkhart, Ind.
Dr. Miles' Remedies Restore Health. queen up through the trap, will presently find themselves in their new hive.
By placing a trap across the entrance By placing a trap across the entrance
to this to retain the queen, one can be sure the swarm will stay here, and at the same time allow the workers free py this methad apiary to look after itself lor the the apiary to look after itself for the day, and find them on his return at night already hived and settled in their new quarters.-American Gardening.

Green Food for Poultry.
The feeding of green food to poultry in summer demands some attention, cially if the fowls are confined in the yards. It is usually the custom to chop green food to a fine condition and place it where the fowls can reach it. Such a practice is the best for the winter, but in summer it is a saving of labor to use a spade and take a large sod to the fowls. They can thus pick at it to advantage, and will be better satisfied, not ceasing until they have eaten tops, leaves, stems and roots, as well as scratching the earth to pieces. Even clover is given in this manner, and veg-
etables need not be cut if they are acetables need not be cut if they are acfeeding. One thing connected with not bite the grass, but pull, consequently when they receive green food they can supply themselves much more easily when the sod is given. A stock of clover would simply be pulled about but if the earth is attan with difficulty, the fowls will ensily menat it


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