

BREEDERS' DIRECTORY.

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 $\stackrel{\text { W. Masfee, To }}{ }$




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times prices. Aliso a few boars ready for service.
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at alit times. Eggs in season. SWINE.

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 wants. Kanills State frie 1894. Come or write your
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swine. Herd heudedy Tecumsen


SUNNY SLOPE FARM


## Agricultural Allatters.

EXPORT BOUNTY ON FARM PROD UOTS.
Several months ago a proposition wa launched to fix a government expor was alluded to in the Kansas Farmer at the time, and it was not expected to at ract very much attention. Later, howadvocates. Among these is the editor of New York publication called Seaboar The editor of that journal opened a co espondence with Secretary Morton, an o merit consideration. The editor of the Kansas Farmer, desiring to have the subject ably handled from the farmer's point of view, forwarded the SeaboardMorton correspondence to Mr. C. Wood Davis, of Peotone, Kas., with a request is Mr. Davis' discussion, which should be carefully read by every farmer in
the land, especially by those who sometimes feel discouraged:

Editor Kansas Farmer:-As a protec tionist, the writer favors all legitimate methods of protecting American labor whether employed in manufactures transportartion upon sea or lana, or in
agriculture, hence has favored and still favors the payment of such bounties or the imposition of such duties, as will in sure the production by American growers of all the sugar consumed in the United States and the carriage in AmerIcan ships of the forelgn commerce of of such a policy will aid materianly in in creasing employment for Americans, and in maintaining, if not in increasing, the prosperity of the great mass of the the "Lubin" proposition to pay bounties upon exports of American grain, meats and cotton either practicable or desirainterest except that of agriculture will be arrayed almost solidy against it and the legislation precedent to the payment of the proposed bounties could not de secured while such bounties would be to a now depressed and underpatd indus try, and would be ino unatpald ndushe growers of food are concerned, as duce an exportable surplus of grain and meats before any party or grain and control of the legislative power will adopt the proposition as an article party faith. To-day the "American Pro
tective Tariff League," through its or gan, the American Economist, is pro-
nounced in opposition, contending that nounced in opposition, contending that
the American farmer is "protected" by the imposition of effective duties upon Porelgn manufactures and by the main-
tenance of inoperative schedules of duties upon the wheat, the of duties upon the wheat, the rye,
the maize, the meats and the port, while free traders of the type of Secretary Morton would transplant al our work-shops to Europe in order that Americans might, possibly, buy as well as sell in the cheapest market, and compete with the redundant, illy-paid and
miserably-fed labor of Europe, India, miserably-fed labor of Europe, India, and the effective and very low-priced,
if fairly nourished, workers of Japan. Fod, and the American farmer will $\mathrm{NoOd}_{2}$ and the A.s. the community-as well as the mos complete monopolist on earth-long before our law-makers could be induced "Lubin" proposition. It is an incontrovertible fact that the
world area world area now employed in growing the bread-making grains (wheat and rye) is less than in 1884, and it is equally
incontestable that the bread-eating popncontestable that the bread-eating pop exceedingly short rations and prices for breadstuffs have been something fabulous but for the related fact that no less harvests have given aicre yields far above the average of either the last sixteen or twenty-four world crops; the vests having averaged 1.43 bushels, or 12 per cent., above the average of the
sixteen preceding world crops, and . 8 cess of the per acre, or 7 per cent., in ex cess of the average acre ylelds from the eight constitute a third. As during the last elght years the world has produced
some $31,000,000,000$ bushels of the breadmaking grains-wheat and rye-it follows that with but average acre yields
from the areas employed during this
elght-year period, the supply of breadstuffe would have been quite $2,000,000,000$ ushels, or 1886 . It is impossible to meas ure the effect upon prices, and in the condition of the farmer such a difference in the relations of supply and demand would have caused, but it is impossible to escape the conclusion that both the level of prices and the condition of the farmer, the world over, would have been exceptionally different from what they have been under the pressure of this extra. 2,000,000,000 busheis of whea and rye, and we can form some concepbe, and how much the farmer will pros-per-as an advance in the price of breadstuffs will affect the prices for all food staples-when acre ylelds the world over shall, for a succession of years, not exceed the average of either the last sixteen or twenty-four years, or of even the extraordinary average for the last eight phenomenal world crops. Of these ex-
traordinary world crops but one-that traordinary world crops but one-that
of 1894-has given a product equalling present world needs.
The world's requirements for the bread-making grains now increase in
the measure of about $40,000,000$ bushels annually, while the world area under wheat is no greater in 1895 than 1884, and the world area under rye is now years since. In other words, the world's uupply of the bread-making grains for the 1895-96 harvest year was grown upon quite $2,000,000$ less acres than was the world's supply for the $1884-85$ harvest year, although in the meantime the 14.8 per cent. That is, only a succession of extraordinary world harvests, due to nored witional suclysion of sea, conditions, has enabled the bread-eaters to secure the needed supplies; and this, too, despite a shrinkage in the area employed. As even these great harvests the relations of supply, demand and prices, is inevitable as soon as existing eserves shall have been absorbed.
In view of these facts, and that clilimits; that a series of moderate given vests have always followed a succession of large ones; that poor crops are both possible and probable; that current and probable additions to cultivated areas in the temperate zones aggregate less than $2,000,000$ acres yearly, and that annua added requirements for malze and hay alone are yearly absorbing, taking the temperate regions as a whole, many more acres than are being added to the cultivated areas, it would appear that it
is neither necessary nor desirable to pay bounties upon agricultural exports. The farmer would not need them at much earller than such a radical change in the nation's fiscal policy can be ef fected.
That the world's consuming element which has augmented by 14.8 per cent in eleven years, has not only increased wormausly while there has been in th wower to a produce bread, but an actual small, decrease, and that the power $t$ than the increases far more rapidly of the greater primary food staples o the temperate zones, is clear from the under such staples in the 1884-85, 1890-9 and 1895-96 harvest years, the increase or decrease in each area during ele
years, and the rate of such change:

|  | 1884-85. Acres. | 1890-91. Acres. | 1895-96. Acres. | Eleven years increase or decrease. | Rate of increase or decrease. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Wheat | 191,000,000 | 189,000,000 | 191,000,000 |  |  |
|  | $110,000,000$ 3,800 | 108,000,000 | 108,000,000 | 2,000,000\% | i. ${ }^{\text {ation p.e. }}$ |
| Buckwheat, etc., ............ | 24,100,000 | $24,100,000$ | 24, ${ }^{3,000,000}$ | 100,0000*** | ${ }_{2}^{2.4{ }^{\text {4* }}}$ |
| Barley | 53,100,000 | 53,500,000 | 53,900,000 | 800,000* | ${ }_{1.5}{ }^{*}{ }^{*}$ p. p. c. |
| Oats | 100,400,000 | 106,900,000 | 108,000,000 | $7,600,000^{*}$ | ${ }_{7.6}{ }^{*}$ p. c. |
| Maize ${ }^{\text {Potatoes }}$.......................... | $114,000,000$ 27,30000 | $\begin{array}{r} 120,000,000 \\ 28,100,000 \end{array}$ | $124,000,000$ 28,500000 | $10,000,000^{*}$ $1,200000{ }^{*}$ | ${ }_{8}^{8.8}{ }^{*}{ }^{*}$ p.c. |
| Totals | 623,700,000 | 633,300,000 | 641,100,000 | 17,400,000* | $2.8{ }^{*}$ p.c. |

The enormous significance of the ex still more manifest when we reflec that were acres under the several staples in the same proportion to the consuming population units as in 1884, the world
area under wheat would now be $28,000,000$ acres more than it is; that employed in rowing rye, $18,000,000$ acres greater; tha devoted to spelt and maslin 700,000 acres more; that furnishing the buckwheat,
millet, etc., $3,600,000$ acres greater; the acres producing barley, $7,100,000$ more the maize flelds, $7,000,000$ acres larger the potato plats increased by $2,800,000$
acres, and the area under all the primary
food staples included in the table aggre It certainly is an astounding, if an in it certainly is an astounding, if an in (only eleven years) the requirements o the bread-eating population of "Euro pean lineage" for the primary food sta ples have increased in the equivalent o average ylelds from $91,000,000$ acres, while, in the same period, the addition made, in the entire worla, to the area producing such staples aggregate but meagre $17,400,000$ acres. In orlm the requirements for the primary times as fast-since 1884-as the powe to produce such staples.
It is obvious that in 1884 the acre employed in growing the primary food or that they are very deficient in 1895, were acre ylelds but average ones. Both propositions are true, and the meagre depression resulting are readily tracea ble, first, to an acreage excessive up $t$ about 1887-88, and since to phenomena cre ylelds (due to exceptionally favora that, relatively to increasing require ments, yearly grows less, and that is and high prices for to promple soll prod ucts of the temperate zones whenever affording not more than average acr yields.
Instead of annual additions to the areas employed in growing the primary food staples, averaging-since $1884-$ bu $1,600,000$ acres, such additions,
consuming population, should have the eraged $8,270,000$ acres, the annual av age deficit reaching $6,670,000$ acres. Dur ing the ten years preceding 1884, when we were opening 125,000 new farms yearly-the States average but 104,500 farms-the world added an annual aver ployed in growing the primary food staples, although requirements increase but four-fifths as fast as now. That is,
from 1874 to 1884 annual additions to the read-eating populations averaged 4,800 000 , while they now approximate 6,300 , ever progressing one as against con stantly decreasing annual additions to the world's food-producing areas. T express it somewhat differently, the re quirements for food increase by greate and greater yearly rates and aggregate While the power to produce food doe of all the available arable areas, in rease by progressively lessening rate and yearly aggregates.
Although the bread-eaters have in pears 14.8 per cent. since 1884 , it ap in the case of oats and maize-by far the greater part of which is used as anima food, and entering largely into the sus tenance of the bread-eaters only in th cts-has the area rater secondary prodpproach area rate of increase even suming element has multiplied. As th meteorological conditions causing such phenomenal acre yields of wheat an ye since 1886 have had similar effect upon the yields of nearly or quite al assume that the parallelism will con tinue, and that after two world crops ot above the average in acre ylelds will be high; that the farmer cultivating his own land will, because of the existing acreage deficit and the relatively smal perous years; that an American bounty on the exportation of food product then be sufficient to generously pay th farmer for the labor and capital emvely burthensome to the oppress sumer, that the bounty would speedily become inoperative by reason of the ab increasing all such products by rapidly that the 'Seaboard's requirements, and the measure but serves to show its iriendliness to the agricultural interest

## SPECIFIC FOR SCROFULA.

ced with scrofulous boils and me terrible suffering. Physicians were unable to help me, and I only grew worse under their care, At length, I began At lengt
to take

## AYER'S

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

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

ception of the conditions actually surounding the production and consump home and abroad. C. WOOD DIAVIS.

## Effeots of Subsoiling.

Editor Kansas Farmer:-The Allen county fair at Iola, that was postponed a successful close, and the managers are to be congratulated on "their fair and its finanicial success. It was simply immense. There were over four hundred entries in the grain and vegetable department, and every other department was cnowded to more than full capacity. forty-five hogs, seventy-five coops of fowls, forty sheep, twenty to thirty bugsies, two windmills, two full lines of farm implements, Including all the great ig plow companies' latest subsoil plows. As to the benefits of subsolling, no same man will deny dt, but few have stopped to figure the actual benefits to dead furrows in a forty-acre field of corn, whll make that fleld produre field of ninety or probably one hundred bushels more corn, or about $\$ 25$ to every forty acres of corn. If we allow forty acres
in every section of land in Kansas, we have the enormous extra yield of about $48,000,000$ bushels of corn, which, at 25 ents, means $\$ 12,000,000$ for only one with these figures before us, have we any right to howl? There is no doubt in my mind bu't that subsoiling is of impiece three times and thoroughly pulverized it, to the depth of twenty-four Inches, and it has absorbed every drop
of ralnfall for twelve months, and has on rainfall fust got full, and the nature of the soil is now entirely changed, and it is as bottom land. I dug my Early Ohio potatoes out of it , mowed the crab grass, when it was knee-high, three 'times, and
am now plowing under a third crop that is three feet tall-more growth than in three previous years. In my plowing I sun out into groung that was not sub roken, all is appalling in the texture CLARENCE J. NORTON. Morantown, Allen Co., Kas.

Would you kill the weeds in your garden, plant it with good seed; if the ground be
well occupled there will be less need of the

Are You Hard of Hearing or Deaf? Call or send stamp for full particulars how deaf for thirty years. John Garmore Room 18, Hammond Bidg., Fourth and
Vine, Cincinnati, 0 .

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Topeka, Kas. Mention KANBAs FABMER.

## The Stoch Interest.

 THOROUGHBRED STOOK EATEFS. Dates claumed only for sales wh.are to be adbertised in this paper.
OOTOBRR 22-J. H. Pegram, Virgil, Kas., Poland-
China
Oorwine




## IMPORTANT HOLSTEIN-FRIESIAN

 FAOTS.The Holstein-Friesian Association of America, at its annual meeting in
March, 1894, for the purpose of stimulating and awakening breeders to a lively interest in the Holstein cow as a
butter-producing machine, passed the butter-producing me
following resolution:
following resolution: "Resolved, That the board of officers be authorized to offer not to exceed
$\$ 1,000$ in prizes for authenticated weekly $\$ 1,000$ in prizes for authenticated weekly
butter records made under the superbutter records made under the supervanced Registry, or some inspector vanced Registry, or some inspector direction of the offlicer of some experiment station or State institution
some State; such tests to be made o some State; such tests to be made o
the basis of the rules for admission, to the Advanced Registry, and must be entered in that registry. The amount $\$ 50$; and then the prizes to decreaseed $\$ 50$; and then the prizes to decrease in
amount in ratio to such records. Such prizes to be offered for various ages, prizes to be offered for variou
This prize list brought out from the Holstein-Friesian camp thirty-five cows
and heifers that were officially tested and heifers that were officially tested
and entered for prize competition. Of and entered for prize competition. Of this number ten were two-year-old heif-
ers, ten were 3 and 4 years old, and the remaining fifteen were from 5 to 11 years old. For the purpose of further as-
centaining for his own satisfaction as a dalryman and breeder the the Holstein-Friesian cotw, the writer has spared no pains to secure an accu-
rate statement of the amount, kind and cost of food consumed by each animal in this test, over the age of 3 years, in-
cidentally demonstrating to the dairy public that the large black and white cow is not only capable of producing a large amount of milk and butter, but that she is capable of doing it profitably and economically, so much so that the test, demonstrates conclusively again the oft-repeated statement of those owners of Holstein-Friesian cat-
the who are business dairymen, that had the Holsteln cow been in the Columbian tests she would have been an the amounit of bu'ter produced, the profit. of its production, and the net In making the calculations of this taon the basis of its actual food cost when purchased, or at its market value if competitor. In some cases the cost of the different foods consumed by the
Holsteins exceeds that fed at the ChiHolsteins exceeds that fed at the Chi-
cago test, and vice versa, but as a whole, the prices average about the same. My purpose, however, is n
to assume the same cost of feed as tablished by Chief Buchanan for the Chicago test, but I have ascertained mals in the Advanced Registry test, mals in the Advanced Registry test,
t'e actual food cost of producing the
results, so that we know exactly what results, so that we know exactly what
each cow earned for her owner during each cow earned for
It is but fair to state that the entire number of animals mentioned in this tist represent only six breeding estab,lishments of America, and that there
are many other herds from which aniare many other herds from which aniwould have been expected to proluce
records of the same excellent characIt will be noticed that the following list contains but twenty-five animals of the thirty-five tested; the ten twe-
year-old heifers being omitted, so there may be a more direct comparison with
the twenty-five fully matured cows the twenty-five fully matured cows
(Jerseys) in the dairy test at Chicago. There were sixty-four mature Jersey cows, selected as the best representabarn at Chicago, and of this number at least forty-seven calved in thelr new quarters, which, more than anything else, makes a cow feel at home among
new and unusual surroundings. From the above number the final twenty-five
cows were selected to enter the ninety
daya' tent, hence it appoars that the twenty-five Jerseys reached nearer the very best producers of the breed than do the twenty-five Holstein cows, from
the fact that of the twenty-five Holsteins ten were only 3 and 4 years old; many of the leading herds were not represented, and many were tested when It iment stations to send a man to supervise the tests. It is, therefore, a question whether there was a Holstein animalitested when actually at her best. On the ather hand, the Jerseys were most of them in the fifteen, ninety and thinty days tests, and we find greater lati-
tude to select from the results of their tude ito select from the results of their every-day periormance yier. In short,
extraordinary character. the week each Holstein was tested, she m
best.

Chicago the butter was credited cents cows at from 40 to 50 of comparison, in this table the butter of the Holsteins is credited at the lowest Chicago test price of 40 cents per pound. I desire here to venture an opinion that a test conducted on a basis of fictitious and ridiculously high prices for a product is not a test of greatest value to the average well-to-do dred can find a market at 40 to 50 cents per pound for butter. However If fair for one breed to assume such value for ita product, it is fair for others, and there can be no comparison otherwise. In this table will also be found a column showing "net profit with butter at 25 cents per pound," which will give our readers a practical view of the worth of the Holstein cows when
prices.

| Name of Anima |  |
| :---: | :---: |
| Mutual Friend 8d, <br> DeKol 2d, <br> Mutual Friend $2 \ddot{d}$, <br> Rose Bonheur ${ }^{\text {Eth }}$ <br> Canary's Mercedes, <br> Honwtie $\mathbf{D}$. <br> Netherl'd Pietertje Princ's <br> Bell sarcastic, <br> Inka 4th's Pietertjo Rose, <br> Pietertje Hengerveld, <br> Nannette 8d's Pledge, <br> Helens Burke, <br> Jessie Beets, <br> Weltske's Pappoose, <br> Netherland Sada, <br> Neth. M. A. Constance, <br> Avginda 2d. <br> Zur 2d, <br> Woodisnd Queun, <br> Biblana's Pet, <br> Johanna 5th, <br> Countess Coiothilide. |  |


|  | Pounds and oz. of milk pr'duced in one week. | $\left\lvert\, \begin{gathered} A v \\ \text { per } \\ \text { per } \\ \text { fat } \\ \hline \end{gathered}\right.$ | $\begin{gathered} \text { Total } \\ \mathbf{w}^{\prime} \mathbf{k}^{\mathbf{8},} \\ \text { be. } \\ \text { bs } \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| ( ${ }_{3}^{3} 10$ | 409 | 4.27 | 17.472 |
|  | 58812 585 | 3.962 | ${ }_{20}^{21.268}$ |
|  | 682 | 2.97 | 20.270 |
|  |  |  | 20.129 |
|  | ${ }_{861}^{625}$ | 3.00 | ${ }^{14.498}$ |
|  | 348 54 | 4.02 | ${ }^{18.4596}$ |
|  | 5098 | 3.4 | 17.522 |
|  | 4922 | 3.55 | 17.482 |
|  | 361 465 |  | ${ }_{16.187}^{17.470}$ |
|  | ${ }_{412} 8$ | 3.41 | 14.848 |
|  | 41210 | 3.74 | 15.445 |
|  | 3586 | 3.53 | 12.485 |
|  | 387 489 48 | 3.62 | ${ }^{14.012}$ |
|  | 41212 | 3.25 | 13.400 |
|  | 361 | 3.57 | 13.312 |
|  | 88814 | 3.82 | 12.900 |
|  |  |  | 12.320 |
|  |  | 3.13 | ${ }^{12} 187$ |
|  |  |  | ${ }^{17.658}$ |
|  | ${ }_{316}{ }^{462}$ | 3.84 | 12.134 |
|  | 11,242 10 | .... |  |

The butter of the Holsteins was cal culated by the rule established at
Chicago, of 80 per cent. fat. Eighity Chicago, of 80 per cent. fat. Elighty test are credited to every one hundred pounds whole milk, and the skim figured at 20 cents per one hundred
pounds; and the fact that the tests were personally and directly supervised by representatives of different experi-
ment stations or State institutions of the State from which the cows were en of these tests by the highest authority In the Chicago test the cows were credited $41 / 2$ cents per pound for every factor is nat taken into account in the Holstein test, and another point of no iittle importance is that the Jerseys were, in the language of the chairman
of the Testing committee, "watched over with thi committee, watched died with the most wonderful skill,' and the Holsteins received their ordi nary care by herdsmen,
The total seven
The total seven days' milk of the
twenty-five Holstein cows was $11,242.63$ pounds, an average or 64.24 pounds per per day for the first week of the ninety days' test at Chicago was 36.6 , which
is exceeded by the Holsteins by 29.64 pounds per cow per day
The total week's butter of the twenty five Holsteins is 496.83 pounds, an av erage of 19.87 pounds per week, or 2.83 pounds per cow per day. The average amount of butiter produced by the
Jerseys in the ninety days' test was 170.96 pounds, or 1.89 pounds per cow per day, which is exceeded by the Holst
day.
The
The food cost of one pound of butter for the Holsteins was 10.33 cents, and
that of the Jerseys 13.75 cents per
pound, from which it will be seen that the Holsteins produce a pound of but ter by over 3 cents cheaper per pound than did the Jerseys.
The highest net profit per day of any cow in the ninety days' test was that of Brown Bessie, of 81 cents. The average net profit per day of the entire twenty-flive Holsteins was 94 cents per cow, and coming down to a practical and reasonable basis of 25 cents per pound, we find the average net earning be 51 entire number of Holsteins to be 51 cents per day, which is conclusive yield a handsome proft and is not an expensive cow for the dairyman of this country to keep.
The highest week's yleld in butter during the ninety days' test was that of Brown Bessle, of 20.163 pounds, which is exceeded by twelve of the twenty five Holsteln cows, and of these one cow was 3 y
4 years old.
The best day's production of butter in the ninety days' test was that o Brown Bessie of 3.48 pounds. The best tein was that of De Kol 2d, of 4.308 pounds.
During the World's Fair test only wards of three a yield made of up day, and in the Holsteln tests ten of the twenty-five cows average over three pounds per day for the entire week. It has often been hurled at us that our breeders dared not enter the Co lumblan dairy test to compete with other dairy breeds where cost of pro duction was to be taken into consid eration; for my own satisfaction I have made careful analysis of both tests,
taking into consideration every point



that would give each breed justice and that would give each breed justice and
fair play, and have made my calculations from facts.
I think the advantage of the Holperhaps not entirely, is in a measure offset by some points which favor the Jerseys, viz., sclentific feeding, a longer time tested, and a better representation of the highest producing cows of the breed. Anyway, from the conditions under which both breeds were tested, Whether on an equal basis or not, made more butter per cow cost than did any of the breeds in the World's Fair test and this by a very strong lead, so strong that any one examining the above table must concede that the Holsteins produce milk and butter profitably, and the facts here set forth hardly warrant the comments which have been made by
thoughtless people and owners of rival thoughtless people and owners of rival
breeds for not entering our breed in the Wreeds for not entering our Rosendale, Wis. W. J. GILLETTT.

Southdown Premium-Winners at Illinois State Fair.
Editor Kansas Farmer:-The largest and best display of Southdown sheep in his country has been made at the IMiels State fair. One hundred and four spect all other breeds. The ribbons Were distributed by S. H. Todd, of Ohio, of opinilon as to his judgment in all cases, it must be considered that with competition in every class sharp, it could the best animalls ever in a display of judge's decision, there would not be some to take exception to his judgment In making up the rings the exhibitors in making up the rings the exhibitors

## It Pays

to use Vacuum Leather Oil on harness hoe-store. Get a can at a harness- or gallon; book "How to Take Care o Leather," and swob, both free; use enough to find out; ; if you don't like it take the can back and get the whole o
your money sold
Sold only in cans, to make sure of fair dealing
everywhere-handy cans. Best oil for farm ma everywhere-handy cans. Best oil for farm
chinery also. If you can't find it, write to
VACUUM OIL COMPANY, Rochester, N

## Hble, and in this way lightened the

 udge's task.For ram 2 years or over, Geo. McKerrow, Sussex, Wis., got first; and Geo. year and under 2, W. E. Spicer, Har vard, Neb., finst; Geo. Allen, second For ram lamb under 1 year, Geo. Allen, arst; Geo. McKerrow, second. For ewe years old or over, Geo. Allen, first; Geo. MoKerrow, second. For ewe 1 year old and under 2, Geo. McKerrow, first; Geo. Allen, second. For ewe lamb under and Geo. Allen, second. For ram of any age, ewe 2 years old or over, ewe 1 year old and under 2, ewe lamb under 1 year, Geo. McKKerrow, flist; Geo. Allen, secwo ewes, the get of one ram, bred and owned by the exhlbitor, W. E. Spicer, second Thish Privett, Greensburg, Ind., wins the first fremium in this class "American Southdown Record" a spe cial premlum offered by the American Southdown Breeders' Assoclation. For sweepstakes ram the purple ribbon was given to Geo. MoKerrow. For sweepstakes ewe the purple went to Geo. Al-
len. These two sweepstakes premiums also carry with them special premiums, Southdown Flock Book," offered by the American Southdown Breeders' AssociaSouthdown breeders throughout the country may well be proud of the ex-
cellent showing made by this breed at this the leading fair of America. It is the first time that these sheep have any of the other breeds, and the exhibit was such that words of praise and congratulation were heard from the knowing ones that had the pleasure of seeing
this lot of beauties. The demand for these incomparable Tue demand for been so great 'that exhibitors report that Breeders throughout the country who yet have some of them for disposal the live stock journals. $\qquad$
What a Woman Oan Do.
I want my lady friends to know of the new fleld now open for them. In the of $\$ 907.02$ after paying all expenses. Al our sales have been made at home, not having canvassed any. My official duties calling me away most of the time, I left the Dish Washer business in my wife's control with the above results. whe business is rapidly increasing, and wh continue to grow until every famiday passes but we sell one or two, and some days fifteen or twenty dish-washers. It's easy selling what everyand wants to buy. You can wash two minutes. For full particuCo., Drawer a-3, Englewood, III Mf'g sample washer, nd yow ca, Get a make money. They only ant h5 put may just as well be making $\$ 5$ a day as to be doing nothing.

Kansas Oity--Oincinnati (Wabash and B. \& O. S. W.)
vestibule sleeping car leaves Kansas A vestibule sleeping car leaves Kansas
Clty Union depot every day at $6: 20 \mathrm{p}$. m . Clty Union depot every day at $6: 20 \mathrm{p}$. m . via the Wabash
to Cincinnati, O., without change, via B.
\& O. S. W. railroad from St. Louls, arriving in Cincinnat1 at $11: 30$ next morning ten minutes, the fastest time ever made On this same train are through sleepers to Washington, D. C., Baltimore and Phil adelphia, and passengers for points east
of Cincinnati can step from the Kansas City-Cincinnati sleeper into the through sleepers any time after leaving St. Louls. Passengers for Loulsville and points South
leave the sleeper at North Vernon at $9: 34$
For Kentucky and South this sleeper is
a great convenience.
the only road offering this through car service. Sleeping car
berths secured at Wabash ticket office, Ninth and Delaware streets, or
H. N. GARLAND,
Western Passenger Agent,
Kansas City, Mo

## Jerigation.

## REPORT OF KANSAS IRRIGATION

 BOARD.By Hon. W. B. Sutton, Secretary, read sas Irrigation Association, at Garde
City, October 1 , 1 ,ill
All who are famlliar with the growth and progress of the irrigation movemen in Kansas, must ascribe great credit to tion. Its Idea was born of the troubles and distresses which assalled the dry farmer in the seml-arid portions of the State. We look back over the road it has traveled with mingled feellings, in which amusement plays no small part. Those of us who have done ploneer amber the consternation which selzed the real estate agent when an irrigatoin meeting was about to be held in this town. One would have supposed that he belonged to the army of the "great unwashed" and was threatened with a deluge. The
local politician shook his wise and crafty local politician shook his wise and crafty head and wondered what effect thi strange agitation might produce upo sonal advancement, and it is not much to his credit that his first conclusion was

Some of us recollect meetings held in the larger towns, which will yet be saved by water or eternally lost, and remember that, through the influence the alarmed polltician, our audiences were narrowed down to a few earnest farmers who, through careful study of their Bibles and observation of the weather, had settled the proposition which still puzzled the real estate man and the politician, viz.: That streams of limpid water were far more producprecipitation." To-day all this is changed. The real tation, is opening his eyes to the tru'th, and the politician, ever anxious to bestride the winning horse, has come to the solemn conclusion that water will materially assist the solution of the agricultural problem.
In those early days the mention of ir-
rigation provoked a smlle. Now it sugrigation provoked a smlle. Now it sug-
gests only one serious question-"where shall we get the water?" This Western country is full of people who ask no other question, and if satisfactorily answered are ready to devote their ener-
gies and expend their money in its application to the soll
The old method of dry farming has had, upon these Western plains, a trial of twenty years, and while isolated instances of success may be found, 'the
general result is against the hope or general result is against the hope or able to support a large population and grow in material wealth and attain a gigher civilization by following the old
method. This opinion is shared by a method. This opinion is shared by a large majority of the thoughtful, intelHgent settlers in this country. It has come to be a fixed conviction which looks in upon us and observes us. We meet one of two alterna'tives, and are in the crisis of a cholce between them. One is, to turn back these broad plains to the undisputed sway of the cattleman, to lead upon them a wild, nomadic life, shorn of the advantages of soclety, schools, churches, is, to adopt a new method, a different system of agriculture and renew the struggle to overcome the adverse conditions of nature, with every assurance of ultimate success.
It was this conviction that banded together "the representatives of the western counties in the last Legislature, to work without to abandon individual convictions and bellefs, and to take what was possible in their struggle for an irrigation law, appropria'tion, and machinery for its expenditure, to the end that some tests should be made, some data collected wheh should gin and expending thelr money and energy in this of Irrigation is the result. It is the advance guard thrown into the enemy's tain his position, and we reallize fully that upon the report which we are able to make to the people, our employers, much of the immediate future irrigation movement will depend. water supply, what we have done and what more we think we can do and what is to be the final outcome. The water supply of western Kansas consists--First-Of the waters flowing mainly In the Republican, the Solomon, the Sa-
Inne, the Smoky Hin, the Arkansas, the Hne, the Smoky Hin, the Arkansas, the
Medicine and the Cimarron, which all

Second-The the ground. twenty to 200 feet. great m.
rrigated.

## may be grouped under the term

 these streams, it beling now a well settled fact that the valleys of the Kansas rivers and streams, generally speaking width to thelr valleys, most of them sup posed to be capable of ylelding a quantity of water as great or greater than ha't flowing in the stream bed aboveThird-The upland underflow underlying nearly all the uplands of the western portion of the State, bounded eastward by the jagged line crossing and below the surface at a depth from

Fourth-There is another underflow or sheet of water under portions of the State in Rice, McPherson, Ehlsworth, the eastern portion of Russell, Mitchell, Osbonne and Jewell countles, from which

Fifth-A flith source of supply will be the impounding of surface water on the where it falls. Small catchment areas. In a sense, the accurate measurement of a stream at a given point and the rainfall within its basin will give us the percentage of run-off water of its whole drainage area, but the percentage of evaporation must bear a relation to the
size of the drainage area. Evaporation bears a ratio to the surface exposed. While the measurement of a stream may very satisfactorily show how much water runs away from its drainage basin, it is far from determining the quantity of water which may be co
lected within the drainage area an

## President Kansas Irrigation Association. <br> \section*{\section*{1 an}} <br> 

made available for irrigation purposes
For instance, three inches of rainfal in one of our river dralnage areas. Some of it hurries to the stream, passes over the gauge and is measured, and quantities are caugh't in shallow depressions,
and, by exposing a large surface to the air, is quilckly evaporated. If this water was impounded, quickly gathered into deep reservoirs, whereby evaporation would be immediately arrested, incal culable benefit might be derived from it It is very important that experiments be made on small drainage areas to determine the quantity of water which
may be gathered from these sources. Our board was commissioned on the 7th day of March and will exist for two years.
Our first important s'tep was to enter Departmotiations with the Geological ernment and invoke their assistance and co-operation. Our negotiations were looked upon by the governmen with great favor. I read an extract of the United States Geological Survey under date of March 12, 1895, addressed to Hon. D. M. Frost, President of the board:
"A copy of the irrigation act passed by the Kansas Legislature has just been recelved. The act, I note, instructs your board to do an extraordinary number of things, all of which cannot be
satisfactorily accomplished for many satisfactorily accomplished for many
times the sum appropriated; but I suppose you whil try to do those things deemed most essential and which wil yleld the most immediate results. Among other items, I note in section 5, To make observations, measurements and experiments to determine the quan-
tity of water flowing annually in the
streams west of the 98th meridian, and the amoun
surface
In a very short time an arrangement which "Uncle Sam" furnished all the
when necessary instruments and implements, established and pald for the measuring stations, employed a skilhful civil and hydrographic engineer to take charge of the stations, leaving the State board to employ and pay a man at each statlon to take the dally readings of the month for each station.
It is estimated by competent authorities that the part taken in this stream measurement by the United States government for the two years for which 'the board lasts, if undertaken by the State board on its own responsiblity, would cost the entire appropriation, but under State less than $\$ 1,000$ for the two years. Seven measuring stations heve been established-one at the city of Belolt, for the measurement of the Solomon river; one at Beverly, for the measure-
ment of the Sallne river; one at Ellsworth, for the measurement of the Smoky Hill river; one at Hutchinson, for the measurement of the Arkansas river; one near Arkalon, for the meas
urement of 'the Cimarron river; one near Kiowa, for the measurement of the Medicine river. Duplicate reports of the observations at these stations are furnished to the United States govern ment and to this board.
I give a partial table, which approxi mately shows the quantity of water (subject to more careful revision and computation) discharged by the Salline
Smoky Hill and Arkansas for the
months of June, Ju
ng a grand total for th August, makof 707,928 acre feet. Probthree month tion of the other streams-the Solomon, cine-will make a grand total of at least $1,200,000$ acre feet for the months April, May, June, July and August:

Saline river
Smoky Hill


I will not take lime listen to my computation to show what a proper use of this water would have accomplished. Let it suffice to say it would
have irrigated 120,000 acres one foot have
deep.
Hav

Having set in motion the machinery or measuring our streams and thus ascertaining the quantity of water availwe turned our attention to what seemed to the board the most imperative pa
of the act, viz., the establishing of the act, viz., the establishing
twenty pumping stations to test water supply of the upland underflow The water-bearing strata vary much in composition, from very fine sand to be great differences in the quantity of water furnished by the different wells, not because of the lack of supply in the earth but by reason of the unequal speed with which it is able to pass
through the strata into the well. Samples of every stratum penetrated have been collected and are being set up in The board has esta
problem not so easily prophesled abou't,
but full of hope and encouragement. If every settler will select his loca tion with a view to irrigating five acres and upwards, according to his means and facilities, cultivate that as his primary work, to such crops as
will best meet the needs of his family and stock, start his herd of cattle and expand on well-balanced lines, keeping everything in its proper proportion and ratio, and dont get heat crazy or any other form of craziness, very few will fall.
Let me picture a man located on a quarter section of "the high rolling prairie," with one or more ind twenty or thirty acres under intense cultivation. He has a herd of cattle which roam outside; he has trees around his home, flowers bloom in his door-yard, fruit ripens in his orchard, hucts of the soll: stacks of alfalfa, hay ducts of the soll; stacks of alfalfa, hay and fodder for his stock through the
storms of winter; an ice-house filled from his reservoir; fish as convenien to his table as the poultry in his hennery, and of the finest quality, grown in the cool, clear water of his reservoirs. What say you of his condition? Is he
plty?
There is room for thousands of them It now looks to me as though this form improvement and progress to be ex mprovement and progress to be expected on the plains, and if we can ple to adopt it and enter upon and settle the whole territory are waiting

I don't mean to deny the privilege of gambling with nature in dry farming. I only want to caution everybody against growing too fond of
We are accustomed to associate the idea of irrigation with dams in rivers and ditches, leading the water to great distances, and to regard a windmill as a machine only sulted to pump water for the kitchen. But wind can operate mamps of corresponding capacity, and if the water is there, can lift immense quantities of it to the surface. When you own and control your own irrigation works you are exempt from many
accidents and inconveniences which beset those who depend on ditches. You are independent, are nut subservient to a higher power which necessarily holds arbitrary control over the water in the ditches. Irrigation by windmills, where found cheaper and more satis will be found cheaper and more satisyour supply is not affected by drought your supply is not affected by drought structive by floods.
The highest civilization in ages past has clung around the irrigation works. The future will not prove an exception
to the rule, and the day will come in our history when the highest form of rural intelligence, culture and prosperity in this country will tbe found under
the shadow of the windmill or its subthe shadow of the windmill or its sub-
stitute. stitute.
Men become more humane, broadminded, by a closer association with
one another, provided one thing is one another, provided one thing is
added-a sure subsistence for each without preying upon the others. The most peaceful aggregation of animals is a perd of cattle with abundant pasture for all. The reverse is an aggregation of men or wolves with scant subsistence for each.
My view of the future of western Kansas is bright and hopeful. She has a delightful, healthful climate and a marvelously fertile soil, needing only water. She has the water.
That agriculture has not been gen-
erally successful without the use of erally successful without the use of
water is far from convincing me that water is far from convincing me that
is will not succeed with water. None is will not succeed with water. None will demonstrate the success of the new
idea, thousands will flock in and avail will demonstrate the success of thousands will flock in and avail
themselves of the discovery, and the land will be fllled with a fixed, contented, happy and prosperous people. An irrigation department should
forthwith be established in our agricultural college, in charge of a man who belleves in irrigation, and stations es-
tablished in parts of the semi-arid retablished in parts of the semi-arid regions for the purpose of experimenting
in the use of water and varieties of crops to be grown. The stations of this
bcard would answer. Several of our pumping stations should be turned over to the Fish the good work pushed from every point,
for the full development of the State.

MAOHINERY AT GARDEN OITY FAIR. The Weber Gasoline Engine.
The first plant encountered on entering the fair grounds was that of the Kansas Clity, Mo. This was the largest plant, and throwing 2,500 gallons per
minute with two centrifugal pumps, atminute with two centrifugal pumps, atwere operated by a Weber No. 6 twelve horse-power engine. The irrigation deconsiderable time in attending and exhibiting their goods throughout the State and has recelved very high the Garden CIty fair.

The Witte Gasoline EngIne.
This engine was awarded first premium at the Garden Cityf ir, for nteoperation. This engine is thoroughly bullt in every respect, and it is a pleasure to note that the company is Shipping them to all parts of the United construction one twenty-five horsepower engine, thta goes to Ipswich, Mass. The engine exhlbited at Garden being a model ten horse-power. It was running one centrifugal pump and one waiking-beam attached to an eight-inch and the durability of the witte engine, have brought it into great favor selves with its work.

The "Infldel" Pump.
H. B. Van Voorhis, of Ford City,
had on exhibition a cheap, decidedly unique practical irrigation pump. He offered for sale, for $\$ 10$, an eight-inch plunger ten-inch discharge pump, guaranteed to throw 30,000 gallons of water per hour, at 200 strokes per minute. This does not include He tubing lor the expenses of any one doubting his statements, who finds on investigation that his claims are not sustained, providing the investigation is made with a view to purchasing. His confidence and economy of his pump seemed to be justified by the earnest inquirers who
crowded around his exhibit. The exhibitor has christened his pump "The Inflor has christened his pump "The
Ialming that all progress has been made by those who do not accept established theories.

The Lightning Irrigation Pump
This pump was exhibited at the Gar-
den City fair by the Kansas City Hay Press Co., but its use was discontinued from the fact that the volume of water
it threw was so large that with the it threw was so large that with the
appliances at hand it could not be kept from damaging other pleces of machinery. This pump is a novelty, construction, and is not injured or impeded in its operation by a considerable percentage of sand, grit or trash in the water. This company had also on
exhibition two other centrifugal pumps which differed in form somewhat from the centrifugal pumps usually seen in the market, and are constructed with a view of making a better use of the attained. Their performance at the that they are first-class machines and well adapted to irrigation work.

The U. S. at Garden City Fair.
The U. S. Water \& Steam Supply from the factory at Batavia, IIl., and E. P. Galley, of Kansas City, their western Kansas representative. This exhibit was
the largest windmill exhibit at the fair and secured for their Gem mills the highest award. These are the mills it certain first premium last year, and to have them acknowleaged as the best in a locality where they are so well operating an eight-inch Curtis doubleacting pump, was the wonder of the
crowd, as it furnished more water than any windmill plant ever exhibited in these parts. This exhibit was like practical and first-class in every parinstruc, and was at the same time plete with weils and pumps such as are used in this part of the State.

Crane Company's Exhibit.
The Crane Co., of Kansas City, have long had a reputation for promptness
in business and have shipped the best in business and have shipped the best
of everything in their line of goods. Their exhibit at Garden Clty was large and varied and the excellence of the was highly commended by all observers. Their windmills were built very towers which were extra heavy, and
constructed on the best mechanical


IRRIGATION MACHINERY. If you want the most prastical, effcient and oheapest irrigation pumping
machinery, write for catalogue of Centrifugal and Triplex Pumps, Engines, Runivinum


The "WITTE" Always Takes First Premlum! The only engine for successf
for feed grinding, shelling, etc.

WE GUARANTEE RESULTS the premer
at carden
aty
Falr. Witte Iron Works Co., Kansas City, Mo.
principles. This company manufactures and sells the Frizell pump cylinders, Which are made in two patterns. The more expensive of these is con-
structed with a view of making the best possible use of the power applied, by furnishing through all parts of the pump water-ways full as large as the diameter of the cyllnder. The other
is a brass-lined, well-constructed tubis a brass-lined, well-constructed tub-
ular cyllinder, with free working valves ular cyllinder, with free working valves
and fully up to the standard of the best made tubular cyllinders. Their two horse-power gasoline engine appeared to require no attention from anybody, but simply went on pumping from
morning to night. The worthington pump is a standard machine of estabished reputation, and machinery men
were not surprised to find it among were not surprised to find it among
Crane Co,'s exhibits. It turned out a Crane Co.'s exhibits. It qurned out a
small river of water. It recelved its small river of water. It recelved its
steam from the boller of a thresher enlgne, and required but 2 small $\cdot x$ rac tion of the capacity of the boiler. actually worked when the steare-gauge showed but five pounds pressure.
The Perkins Windmulloliless and storm-
The abomination of having to climb to the top of a windmill tower with from destroying itself, is entirely ione away by the graphite bearings of the Perkins windmill. So complete has holes are made. These mills have been first erected are still running. So great the power of the Perkins to withstand storms that the warranty agrees to re-
place all parts damaged by wind, even place all parts damaged by wind, even
should the wind be a tornado. The Perkins has a compensating lever and is equalized, the power developed whill the pump plunger is descending belng stored and made to assist during the up stroke. The Perkins pumps are made with heavy brass tubing and are full measure inside. They are strong, have both readily removable without disturbing other parts of the pump.

The "Secretary" Plow.
The John Deere Plow Co., of Kansas Clty, Mo., had on exhibition at the stirring plow manufacture. This plow, plow with subsoiler. Its construction at once suggests easy draft. In the field trial given it plowed a furrow deep and was drawn by four horses. The subsoiler and revolving plow make an efficient combination, each assisting the work of the other. The entire
machine is adjustable as to both depth and width of furrow. It may turn a shallow furrow while the subsoiler considerable depth, or the subsoiler may stir only a ilttle in the bottom of the turned furrow, or it may all be trial. The trial was witnessed by a large concourse of farmers, and was
heartlly commended. The editor of the Kansas Farmer was present and had no hesitation in saying that a notable
and valuable advance and improvement had been made in plow construction. The exhibition was in charge of
Will H . Fuller, of the Kansas City branch of the John Deere Plow Co.

Our First-Page Illustration.
Referring to the fine illustration the noted Poland-China shown on our
first page, and owned by A. W. The first Dage, and Wathena, Kas., we desire to state that Graceful F. Sanders 1309
S. was sired by J. H. Sanders 27219 . S. was sired by J. H. Sanders 272190 .
the sweepstakes boar at the world'

Fair. His dam, Graceful F. 63408 O. won first in class and was in the aged Graceful $\mathbf{F}$. Sanders won first and sweepstakes at ISt. Joseph, Mo., fair In 1895. He sired pigs that were winners at st. Joseph, Mo., an
ford county (Kansas) fair.
$\$ 90$ A Aento Wanted orersharo to tio



## Dr. Scott's

 GenuineElectric Belt
for men and women, quickly
cures Rheumatism, Gout,
 Liver and Kidney trouble, Nervous Debility, Indigestion and kindred complaints; it acts imme-
diately upon the blood, nerves and tissues, producing diately upon the blood, nerves and tissues, producing
more benefit in a few hours than medicine has given Standard Belt, 36 Power, $\boldsymbol{\$ 3 . 0 0}$. At all druggists', or sent postpaid on receipt of price.
"THR Doctor's SToRy," a valuable book, free. LL ELECTRIC ASSOCYATIOV,
Room 10,844 Broad way. Ntw York.


## Califoria Excinsion.

 NOVEMBER 14.Special Train, Lowest Rates, Extra Comfort and a Good Time.
 FAIR OAKS AND OLIVE PARE, In the heart of Gallfornia, and yet a pleoe or the




We manufacture a full line.
KANSAS CITY HAY PRESS CO.
DRAIN TILE
W. S. DICKEY CLAY MFG. CO.,

IRRIGATION.

## POWER from GASOLINE? YES.



## The あome Circle.



## Who knows to-morrow what will be? The darkest clouds may pass away, And waves that toss upon llfe's sea May gently break before the day.

Whu knows that wealth will always smile,
The tide of fortune ever flow? The tide of fortune ever flow?
It may be but a little while
That joy may come and quickly go. Who knows the alm of every uife,
The weary years of toil and pain,
And all the struggle and the strife, The weary years of toil and pain,
And all the struggle and the strife,
The loss of triumph one may gain? Who knows the grim phantoms of care
That in every corner hide, Or the heavy cross each one may bear
In passing o'er life's troubled tide? Who knows when life's journey is o'er, Its pain and pleasure all are done,
What the future may have in store,
The joy or sorrow for each one? -Good Housekeeping.
THE POETS.
There's never a robin that pipes of spring,
Nor a stream that runs and leaps,
Nor a stream that runs and leaps,
Nor a bee that dreams on drowsy wing
O'er a perfumed petal's deeps, But has its rhymes and runes; Its ryhmes and ru
Its subtle tunes,
Whose rhythm in
Whose rhythm $\ln$ sllence sleeps. There's never a star that spins in space,
Nor a leaf that falls to earth, face
Nor a rain-drop brought to birth,
But has its rhymes and runes But has its rhymes and
Its rrymes and runes, Its mystlic tunes,
Of sweet, unfathom'd worth.
Ther's many a soul that throbs in time That may not volce the silent rhyme;
But some can hear afiar:
But some can
And they, $y$
runes,
And they can sing the mystic tunes,
For they the poets are.
-W. J. Henderson, in Harper's Weekly

## DEALS IN LIVE STOCK.

Kansas Clty Glirl Moets with suce
the Commission Business.
The new woman has forced herself into almost every position of any note, but the idea of a real, live woman going into the live stock commission business is novel, to say the least. This
wonderful woman is Miss Jennie Goodwonderful woman is Miss Jennie Good-
win, of Kansas City. She is twentywin, of Kansas City. She is twenty-
four years old, and for six years served four years old, and for six years served
as stenographer with a firm of live as stenographer with a firm of live sition she came in constant contact with customers, and became acquainted with nearly all of the leading shippers of the southwest. About two months

agg she first thought of starting in
business, and decided that she could succeed as well as many of the men who went into the same work, who were possessed of no more good sense
or judgment than she herself claimed. She looked the field over thoroughly and carefully, weighing every suggestion she could think of pro and con, and finally determined that she could give as good service as anyone else,
and a few weeks ago opened her offce at the Kansas City stock yards. She has been fortunate in securing a good salesman, who has been at the yards since 1872, the year after Miss Goodwin
was born. The was born. The hog man is also an old
stock-yarder. Miss Goodwin is very stock-yarder. Miss Goodwin is very
popular about the exchange, and now that she is making her own way in the
world finds that the number of friends world finds that the number of friends
have increased wonderfully. She has received propositions from several wealthy cattlemen to furnish the cap-
ital and incorporate a company bnt ital and incorporate a company, but
ahe profers to keep on as at preaent

She does not care for partners and vision. Miss Goodwin is slight and not Vision. Miss Goodwin is slight and not
over five feet three inches in height. over five feet three inches in height.
Her forehead is broad and high and suggestive of intellectuality. Her eyes, which are dark and brilliant, are shaded by heavy lashes. Her chir is firm and her mouth that of a womanly woman. She is quick in thought and
speech and a good talker.

## RECEPTACLE FOR SHOES.

How a Clever Girl Made Use of a Dis-
carded Outing Parasol.
A returned summer girl has found a novel use for her discarded outing par asol. She has removed one-half of it board, as shown in the illustration, covering both this and the outside of the remaining half with cretonne to match the furnishings of her room. Each segment is furnished with a lining, which forms the pocket for a pair of dainty slippers or shoes, and as the pocket is
deeper than the length of the shoe

they are kept in place. It may be covered with white duck from an old gown with a fall of coarse lace about edged Use only a small parasol, and if you have not a frame of the right size you may fashion an umbrella shaped bag, so constructed that the effect will be that of
Herald.

HOW TO ECONOMIZE.
Nover Buy Cheap Things Nor Things That There is no falser Needed.
buy inferior goods, and this rule holds good for food as well as for clothes. A good material looks well to the end, and can be washed or
cleaned and made up again in various ways. It is better to have one wellmadedress of good material than two or three badly-made of poor stuff, which will look shabby and untidy after wearing once or twice. When dusting or sweeping an apron should always be worn, and for any very dirty
work it is a good plan to change the dress, and wear an old one kept entiredress, and wear an
ly that purpose.
In household mat
dreds of ways in which there are hun dreds of ways in which economy can be practiced. For instance, in any room
that is much used a rug or strip of carpet laid down near the door, where the most wear comes, will save the carpet and make it last twice as long.
White tablecloths should always have taide napkins spread at the end where the carving goes on, so that in case of any gravy being spilt o lly the napkins need b
cloth.
In buying food always choose the best. Inferior meat and poor groceries small amount saved by purchasing them is often expended twice over in paying doctor's bills and buying medicine to cure ills, many of which are inferior and indigestible food.
Good cooking is a great help to economy, and is an art which should be how to make the best of everything and the most tasty way of using up all kinds of scraps is by no means to be despised.
Never buy anything that is not really Never buy anything that is not really
needed just because you see it in a shop needed just because you see it in a shop and it happens to be cheap. In buying buy fairly large quantities and store them than to buy small quantities
Fhenever needed. Egga can be kought

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

## Roval Baking Powder ABSDLUTEEY PURE

in the summer when they are cheap and stored for winter use, and spices, rice, oatmeal, dried fruits, peas, cesndes, etc., can be kept for a long time if properly stored. Keep currants and aisins and other dried fruits in jars or tins, with covers, where flies will not be able to get to them. Tea and coffee should be stored in tin boxes or jars with tightly fitting lids so that the air is quite excluded.
uently economical plan, more freland, is to owed abroad than in Engall odd bits of meat and bone wich etables, and other odds and ends are put, to be used for making soup. All pleces of bread should be kept, made crisp in the oven, powdered, and kept in a tin ready for frying. Pieces of cheese, too dry for eating, can be pow-
dered and used for flavoring macaroni and other dishes to which cheese is an mprovement
There are numberless ways in which a careful housewife can save money without making any appreciable diference in the comfort and well being rie inmates of the house, and it is a requenty that cooks are requently the most economical.-Home Notes.

## SYSTEM IN HOZUSĖẆWRK.

A Good Thing Provided It Does Not Degenorate Into Xdolatry.
One must confess to a fellow feeling for the little girl who did not like to visit where they always had times for ble to have. system that it is very desirable to have system in the household goes without sayiag. But no wise Moloch to which the comfort and convenience of the whole family must be venience of
sacrificed. An expe
An experienced housekeeper knows hold affairs by a set of fixe housewithout seriously interfering with the freedom and pleasure of reedom and please of home life. pen, and a wise housewife will mapher system so flexible as to be able to conform without serious friction to the unlooked-for emergencies of social life, and be prepared for frequent interruptions; else all the pleasure and sweetness of the little surprises of home and social life are spoiled by our inability to adapt ourselves to the exigencies of daily life. The ability of the house seeper to conform easily and cheerful
y to any little change in her household plans goes far to make or mar the comort of the household.
It is a hard lesson for a systematio ousekeeper to learn, this setting aside of our own plans, and entering heartin and cheerfully into others that rise up and confront one; but it must of necessity be learned if we desire to should be, and our home life pleasan nd comfortable.
The wise housewife will make some provision for the unexpected, and have omething in reserve for the require ments of hospitality. It is always well to be forehanded with our work, and
keep things done in advance as much as possible; for nothing so tends to make a housekeeper nervous and fretful as an accumulation of housework and unexpected interruptions.
While no one need be the slave of sys em, a little wise forethought in pre paring for emergencies will often save Clark Hardy, in Good Housekeeping.

Housekeeping and Homemaking.
Housekeeping is not always homemakng, and the modern woman is behouse and its glory is one mode of existence; another mode is to make the house exist for the sake of the people housekeeping; the latter is homemak ing. You can discern the difference be-
entering a domicile if you are half way observant. You can tell by the books the divans and the arrangement of amps. The real state of things is in the atmosphere, and is as discernible in though written on the wall.
ronch Laws Concorning Bablos.
It is not prenerally known that in France it is forbidden under severe penalties for anyone to give infants under one year any form of solid food unless such be ordered by a written prescripion signed by a legally qualified medical man. Nurses are also forbidaen to use in the rearing of infants confided pretext whatever any or under any provided with a rubber tube bottle provided with a rubber tube.

## To Wash Light silk

When washing summer silks remove all grease or other spots with chloroform, then make a solution of a teaspoonfal of ammonia and a little soap in a pail of water and into this dip the silk again and again until it looks quite clean. Do not wring it out, but press between the hands. Rinse in water from which the chill is gone, then hang in a shady place until partly dry, when lay between two cloths and press with hot iron until it is quite dry.

The Latest in Funeral Flowers. Flowers for funeral offerings are pieces being sent loose in a box, set and plainly suggestive. Wreaths are still used, but they have become so full as to have lost the hollow of the center, and are, instead, a round mat of flowers. Something different in floral designs for these sad occasions is the oval wreath, of which one side is made solidly of ferns and leaves and the other half as solidly a mass of flowers.

Nebraska Girls Häve Qüeer Pets. Two queer pet animals are owned by of Omah Ni. Miss Lillian white horned toad from California which seems to understend what is said to it and obeys like a pet do Miss Agnes has a true wildet dog. Miss nevertheless, tame. The pets matise, strange combination, and his toadship takes many of his naps in the long hair of his big playmate. The animals oc. cupy a massive cage together.

Confusion as to the choice of a blood purifier is unnecessary. There is but one best Sarsaparilla, and that is Ayer's. This important fact was recognized at the only blood purifier admitted to be placed on exhibition.

## 7+7+7+7+7+7+7+7+7+7+7f



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## каNSAS ottx, mo,

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Che Ioung folfs.


## THE PECULIAR TURK.

 What He Does When a Fire BrIn His Nelghborhood. in His Neighborhood.
American boys and girls accustomed to the dash of fire horses through the thg house or shop in five or ten mining house or shop in five or ten mindepartments, will laugh to hear how the slow-going Turk manages the mat-

In Turkey's most important city, Constantinople, there are no electric fire signals to be rung at almost any street corner, but the fires are watched for from several fire towers that are built in various portions of the city. The one shown in the accompanying picture is in the old part of Constantinople, just inside the gate of Soulamanie, and is a historic one, for it is built on the site of the forum of Constantine the Great, from whose name, as many of you probably know, this beautiful city of the Bosporus is
named. Toward the top of this tall, named. Toward the top of this tall, graceful tower a rod or pole projectsals. On the top of the tower stands, day and night, a watchman, who looks all about on every side for the first sign of a fire. If he sees a suspicious smoke anya sort of ball-shaped basket or lantern,

as it is called, one for each district, up to the one where the fire seems to be The city was built on seven hills, and each hill is a district, so if the fire is in the third district three balls will hang on each side, that all may know where to run for the fire.
The street watchman, whose duty it is to keep his eye often on the tower, soon sees the signal, and if it is in his district he starts on a run to warn the firemen. He has a club, and as he runs he beats on the pavement with it, and var! Yanghin var!" "There is fire! There is fire!" The first to hear There is fire!" The first to hear
the noise and din are the dogs the noise and din are the dogs of the city, and the dogs of all by themselves, for they are very prominent. There are ten thousand of prominent. There are ten thousand of as if every dog in the city turned out for every fire. It is certain that almost for every fire. It is certain that almost crowd of dogs yelping and barking at his heels, and this commotion soon arouses the firemen. These are voluntearnonot a cercular company of trained
men as we have, and part of them run to where an old-fashioned hand engine is kept, and get it out and start for the fire with it, and another set of men grab their leather water bags, which they sling over their shoulders as they run, and go to the nearest public fountain to fill them with water. Then they, too, rush to the fire, the engine pipes are attached to the bags, the men begin to pump, and at last, when the fre has had a good half hour's start, some small streams of water are played
on it, without, however; as you may on it, without, howeve
guess, very much ellect. At night a colored light is used on the towers, its color showing the district whe the firemen heve no ides are large and the fremen have no idea in what part of the district the fire may be, they somethmes race over the ing, before they find the blaze; by that ing, before they find the blaze; by that time, perhaps, a good part of the which are kept in use when they are which are worn, and little good can be old and worn, and little good can be
done. It is because their means of fighting fire are so slight and imperfect that the city is often visited by fect that the city is orten visited by
most serious fires, and this is why, too, most serious fires, and this is why, too, particularly at night, is the shrill "Yanghin var!" of the watchman. Many of the wealthier citizens keep on hand large heavy curtains, almost as thick as the Turkish rugs, and of great size, which they hang in front of their houses when a fire is near and seems threatening. This curtain is called kuzkeelim.-N. Y. Times.

THE DRUNKARD'S DOG.

## He Saved His Master from Heing sent to

The New York Times reports that Policeman Logan, of that city, sava man lying intoxicated on the pave ment, and went toward him, meaning to wake him. As he drew near, how ever, he saw a brindle bulldog standing
beside the sleeper, and as the policebeside the sleeper, and as the police man leaned forward to shake the man the dog growled and showed his teeth Logan stepped back for fear of being bitten.
Collins.

Hey, there!" said Logan. Collins woke up.
"Tell your dog to let me arrest you." Collins struggled to his feet, and said to the dog:
The dog "heeled" obediently, and the policeman took them to the Thirtieth street station-house. There was no reason why the pup should be locked up, but it was plain that he intended to stick to his drunken master as long as he could, and he was allowed to occupy the cell in which Collins spent the night.
The dog accompanied Collins when Logan took him down to Jefferson Market police court, and was close to him when Justice Hogan asked:
"Well, sir, what have you to say for yourself?"
"Talk to him, Bully," whispered Collins to the pup; and the pup jumped up on the bridge, where the justice could see him, sat up, held up his forepaws and whined.

## him.

"Are we sorry?" Collins asked him.
The pup whined loudly and more forlornly than before. He looked as if he would cry in another minute.
"I'll let young man," said the justice, your you go this think account of your dog. I don't think you deserve I were a dog and had a drunken. If I were a dog and had a But I mase dogs are more faithful than men,
"Thank the judge, Bully," said Callins.
The dog stood up on his hind legs, gave one short, joyous yelp, and bounded out of the courtroom beside his master.

The Grumblers Retired In Haste An excursion party from Boston went to a rural part of the state, and in dethe members were obliged to seek quarters in a farmhouse. Everything was neat and clean, and the meals were excellent, but there was a natural absence of some of the luxuries of city life. Two of the ladies of the party presently made the alarming discovery that there were no keys in the locks of their rooms. They waited on the farmer's wife to complain. She listened
quietly, and then said, with a smile: "We don't usually lock our doors, and there's no one here but you. But I suppose you know your own party best." The visitors did not insist upon the keys.

THE FUNNY PLATYPUS.
An Egg-Laying Mammal from the wild
One of the oddest of the many queer and unique creatures that inhabit the antipodean wilds is an animal about the shape and size of the American

raccoon. He is not a curiosity on ace count of his shape or size, or because he resembles the coon and lives in Aus tralia, where all nature is topsy-turvy, but because of a remarkable habit the female of his species has of laying egga nd hatching them after the manne of birds. This queer egg-laying ani mal, the only crealure or the tid on earth, so far as the zoologists know s called a plalypus. It bito th deep forests of a oth Australa and Now Zealand, and, is said, has many of the character tribe The platypus is not $s$ common nimal even in its native haunts, and it is yearly becoming rare, because of the war which has been waged against it on account of the continuous dread of the harmless little creature, because its habits deviate so widely from those generally noted in fur-covered, four footed creatures.
To remove the constipated hablt, the nly safe treatment is a course of Ayer' Pills, followed by a laxative diet. Mos other cathartics do more harm tha ommend Ayer's Pills, especially as family physic.


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# KANSAS FARMER. <br> ESTABLISHED IN 1863 <br> Published every Wednesday by the KANSAS FARMER COMPANY. 

SUBSCRIPTION PRICE: ONE DOLLAR A YEAR. of


The Kansas. State Horticultural Soclety will hold its next annual meeting nesday and Thursday, the 10th, 11th and 12th of December, 1895.
It is not the purpose of the Kansas Farmer to give a formal report of the detailed proceedings of the Irrigation rapidly as possible the papers of chlef

## Readers who are not especially in- terested in irrigation may find this

 terested in irrigation may find this number of the Kansas Farmer ratherfull of that subject. Well, this is the number just succeeding the important is a fruitful subject, while irrigation that the near future will present so much for wh

Any one desiring to subscribe for Kansas Farmer can also obtain an elegant magazine at small cost. Kanzine, both one year, for 32 . KansaFine, both one year, for $\$ 2$. Kansas $\$ 1.85$. Any one not acquainted wilh these magazines can see what they are by calling at a news stand in any city
in the United States. Kansas Farmer and Cincinnati Weekly Enquirer bot one year, $\$ 1.25$. Send all orders to
this office.

The comparative showing of receipts and shipments of live stock for the September 30, 1895, at the Union stock yards, Chicago, shows cattle 282,886 for
1894 and 270,795 for 1895 ; calves, 19129 1894 and 270,795 for 1895 ; calves, 19,129
for 1894 and 10,882 for 1895; hogs, 411,915 for 1894 and 448,284 for 1895; sheep, 267 409 for 1894 and 339,342 for 1895; horses, 7,677 for 1894 and 8,598 for
the there was a decrease of 12,091 and in
calves 8,247 . The increases were in
hogs, 36,369 ; sheep, 71,833 ; in horses, 921 ,
and in car-loads 226 .

## KANSAS OORN OROP.

Replying to inquiries, Secretary Co-
burn, of the State Board of Agriculburn, of the State Board of Agricul-
ture, says:
"During the past two months or more there have appeared in the various newspapers, East and West, statements of Kansas as anywhere from $300,000,000$
to $400,000,000$ bushels, and in numerous instances these statements have been made as emanating from the office of fact, however, this board has mare As a estimates and does not yet know, nor does anybody else know what the yield arrived at until a considerable portion of the crop is husked.
ture, we shall be at much pains to learn from every nelghborhood and make public the actual output; until then any figures given will be simply ran-
dom guessing, which is no part of our work.
"Kansas has a tremendous cropenough and millions for the cornless elsewhere, but personally, in view of
the weather conditions of the past six
weeks, I regard the talk of $400,000,000$ weeks, I regard the talk of $400,000,000$, for and harmful buncombe."

THE GARDEN OITY FAIR. The Garden City fair is in some re spects unique, and it is the great even
of the season in western Kansas. It exhibitions are not more varied, no are they larger in volume or numbers,
than at many fairs which command far less attention. But the Garden City exhibition marks the progress of th least a development new to most o the people who are interested in it Western Kansas makes but little pro-
gress without irrigation. Indeed, the impartial observer readily conclude that the contrast between the certainty
of success under frrigation and the al most certainty of fallure under dry farming in the regions here repre-
sented, makes the latter unworthy of sented, makes the latter unworthy of
consideration except to condemn, and the former worthy of the closest study of its methods and analysis of its re
sults. The Garden City fair is, therefore, in some sense an exposition of ir
rigation. And while the horse race at tracts the amusement-loving crow
and is provided for that purpose, well as to swell the gate recelpts, th chief interest in this exposition is gation and the fruits,
The exhibition of irrigation appliances this year was excellent. On en tering the gate, the visitor first en
counterd the exhibit of the Kansas City Hay Press Co., and tha
Weber Gasoline Engine Weber Gasoline Engine Co. Press Co. had, to the surprise of every had three centrifugal pumps which was estimated to be throwing ing gallons of water per minute, lift smaller one, an estimated amount 300 gallons per minute, from a p forated point sunk into the sand. One Weber gasoline engine of twelve horse-
power was driving both of these pumps power was driving both of these pumps
and was evidently working consider and was evidently
The next exhibit was that of the Per This windmill Co., of Mishawaka, Ind mill on steel tower, working an eight by six inch pump, and a twelve-foot
windmill, also on steel tower, working a ten by eleven inch pump. These mills are provided with graphite bearings
and are never oiled, wo that there is no possibility of grease or machine oil ing evidence upon the mill and towe and fastidious observer
The third exhibit reached by the visof Kansas City, consisting of on twelve-foot Crane Irrigator windmill, forty-foot steel tower, with fifty-inch
Frizell tubular pump with twenty-inch stroke, and said to lift seventy-two gallons of water per minute
eighteen-mile wind. This exhibit showed a two horse-power gasoline of itself, and was operating an eight inch Frizell irrigation pump, and said to be lifting 120 gallons of water per
minute. This company had also on ex hibition a twenty-inch Worthington wrecking pump, with steam cylinder
attached, and said to be lifting 1,200 gallons of water per minute, also full line of irrigation and tubular pump
cylinders. Another exhibit of the Crane Company was placed in the center race track, and consisted or
twelve-foot Irrigator windmill, workin a ten-inch Frizell Irrigation pump, and
said to be lifting 160 gallons of water said to be lifting 160 gallons of water
per minute in an elghteen-mile wind It drew its water from a driven well
and delivered it into a model reservoir from which it was drawn and applied t grounds, showing a practical method of irrigation.
that of R. G. Stone, of Garden City manufacturer of the Stone pump. This exhibit consisted of a number of pumps
and pump cylinders, including a deep and pump cylinders, including a deep twelve-foot Airmotor windmill on a
thirty-foot wood tower, and a twelvefoot 'Airmotor on stub tower. The first
of these was operating his 12x12 Stone pump. C. Mitchell, of Garden City, ha on exhibition a twelve-foot Tdeal Irri-
gator windmill, operating a $10 \times 12$ Stone pumn. Next was the exhibit of the Witt Gasoline Engine Co., of Kansas City
driving a No. 6 Gould centrifugal pump driving a No. 6 Gould centrifugal pump
said to be discharging 2,000 gallons per of a pumping jack and walking beam a ten-inch home-made pump made b Near by was the display of the U. S
Water \& Steam Supply Co., of Kansa

City. This consisted of a sixten-foo Halladay pumping windmill on a thirtyfoot steel tower, operating an elight-ina
double-acting iCurtis pump with ten inch stroke. In a strong wind this mil is said to give 110 strokes per minute This company had gallons per minute twelve-foot Gem steel wind engine on orty-foot steel tower, operating a 10x1 rigating pump, and said to be deliv ight-foot Gem' steel wind engine on fory-foot steel tower, operating a $6 \times 8$ . S. irrigating pump, and sald to be delivering thirty-one gailons per min
te. This company also had on exhbl tion a Gould centrifugal pump, befor mentioned as operated by the witte
gasoline engine. Also a full line of U . gasoline engine. Also a full
S. |rrigating pump cylinders.
Near by stood the exhlbit of the olivet Manufacturing Co., of Wichita and pump and a model of a centrifuga pump of entirely new design and con struction, which for simplicity surpassed anything heretofore atte
in the line of centrifugal pumps.

A small windmill, using a pinion and yoke instead of crank, was exhibited b Mr. Hoag, of Newton.
The exhibit which attracted more at-
tention than any of the others and ner haps received the warmest commendation, especlally from the farmers who had been unable to devise ways an means or to fing any of the high-grade machines of the other exhibits, was that of $S$. $s$ Taggert, of Garden Clity. It consisted made water elevator. The entire plan was constructed by Mr. Taggert with
the asslstance of his wife and her sewthe assistance of his wife and her sew-
ing machine, and the total cash outlay ing machine, and the total cash outlay
for materlal for the whole appllance for material for the whole appis co
complete was $\$ 12$. This windmill is concomplete was stilize the north and the
structed to utile south wind, but does not turn to catch the east and west winds. Mr. Tagger has promised a full description of the day, and we hope also to be able to preIt presents a picture strongly reminding one of the lllustrations of anclent
Egypt. But when the wind was blowing strong from the south it lifted as
much water as any mill on the grounds. The last display in this line was tha synical old frontiersman, who ha said to have a windmill of his own construction on his premises, which he
calls the "Devil." Mr. Van Voorhis' pump was driven by a steam engine,
and was making ninety-flve strokes per minute, and could probably make mor ity in its way. It consists of an oil barrel with a valve in the bottom low cylinder, with a valve on top. The bottom of the barrel is, of course, conhollow cylinder is connected with th plunger-rod, and has sultable packing
around it where it enters the top of the around it where it enters the top of the
barrel. A sheet-iron pipe fixed to tho top of the barrel, and surrounding the
plunger-rod, serves for a delivery plpe and completes the machine. The machinery exhibit, outside meager and consisted almost entirely of Perine subsoll plows, a plow almost identical with the Perine, made by the City, and the "'Secretary," manufac tured and exhibited by the John Deere Plow Co. The Secretary marks an ad-
vance in plow construction and combines in admirable form

## The display of the result

gation farming was entirely of irri but was less complete and extensive visited the marvelous fruit and vege table farms in the vicinity. It was
learned that many who had exhibits eady were prevented from bringin them by the rain, which set in early in close of the fair. Notlce can here be given to only a f
plays of products.

Near the entrance to the pavilion was a fine display, presided over by A
Bartlett and his wife. In this exhibit were thirty-five entries of fruits, on
which the judges placed twenty-elght blue ribbons; six entries of vegetable melons. The ribbons, and two monste which characterizes irrigated bloom German prunes were there in great dried stan, both in the fresh and in the grapes in great variety and of superio
emperate zone were largely in lev which consisted chlefly of vegetable were thirteen onions whose weight was twenty-one and one-half pounds. Lee Doty had a fine exhibit, in which canned ruits were predominant. It is sus pected that the industry of Mrs. Doty is to be credited with this. The sugestion was made that fruits and vege ainty and in such abundance under irrigations that a canning factory ought to pay well at Garden City, was well made. Cucumbers grow to such perfection that some one out of emof the money which this county an nually sends to England for pickles.
A. Hopper \& Son, who showed honey and bees. This season gave only about half crop of honey, yet these exhib 300 stands. Most of the honey is sold In Chicago and Kansas City, and nets about $121 / 2$ cents per pound at Garden City.
Mor
Morton, the southwest corner county of the State, had an Interesting dis-
play in charge of Sam Worthington, play in charge of Sam worthington, display outside of Finney county.
The Airmotor offered for the best half-bushel of potatoes and the blue ibbon for the best display of potatoes were both taken by John Baker, of Garand the potatoes were so much allke hat they might have deen cast in the hat they m:
same mold.
Oil painting is evidently a fad at Garen City, but space forbids that menhibit, which occupled the entire alfalfa Stook is not a direct product or ir rigation, and yet it will doubtless be a more prominent part of future ex-
hibltions than of this one. Some good nimals were shown, but it is hoped hat a fuller display will be made nex have one its live stock men on the grounds to properly present it.
This fair is in energetic and capable hands. It pays all premiums promptly at 100 cents for every dollar awarded, and while the weather this season was not favorable for a large attendance,

## ZANSAS IRRIGATION ASSOOIATION.

 The fourth annual conventran City October 1 and 2. When, a little more han three years ago, a conference was called at Great Bend to consider the ubject of irrigation, it was not realized hat a great and powerful movement, destined to have immense influence on the development and prosperity of the $f$ the had been initiated. meeting were perhaps not defined in detail, but it is safe to say that coniderable departure has been made from the original conception, That the goveventually do a very large part of whatver was proposed was unquestionably the central thought at that time. Great enterprises, immense systems involving. possibly, the turning of the course of he Missouri river; the appropriation and expenditure of many millions, seemed to the enthuslasts who starte the movement torigation. How much of hope of having a part in the handling of these millions entered into the iniial enthusiasm will never be known. But if the hope for place and profit entered into the calculations of the original promoters of the irrigation development, they were not different from he usual promoters of beneficent movenents, for is doubliest true that great me services which alversally receive the services which give themvitality chiefly on account of the hope of selfish gain on the part of their But, while the interest created by the Irrigation Association undoubtedly made possible the Kansas Irrigation Commissioner law, the chief results of will be to a will be to a far greater extent in the ndividual irrigation. The meetings of the assoclation have each shown more cearly than its predecessor that the ndividual has here his opportunity, and the experiences of practical irrigators have demonstrated thal pront is to be realized by each indival who, with fair intelligence, makes use of this
opportunity. This fourth meeting was held at the home of the originators of individual pumping plants on the American plains, and the fact that the Arkansas river, near by, was little but
a winding band of moist sand had no

Anfluence to diminish confidence in the water supply or to lessen the estimates of the area for which the supply of water is at hand.
Instead of asking either the United State3 or the State of Kansas to enter upon the work of developing a system of irrigation, instead of petitioning any canals, the desire of the association was only that the irrigators might be furnished such information as will enable them to proceed intelligently with the development of individual systems from
the widely distributed resources availthe widely distributed resources avail-
able. This demand is briefly stated in the following resolution, which was unanimously adopted:
Resolved, That we ask the Congress of
the United IStates to make such appropriathe United States to make such appropria-
thons of money as Will provrde speedill for such survey as shall determine the amount,
distribution and limitations of the waters
of the great plains which may bo made of the great plains which may be made
available for irrigation especial reference
beng had to the investigation of sub-sur-
face supplies and to means of retaining for the sue of agriculture the wasteful run-oft
and evaporation which occurs immediately
after heavy rainfalls. after heavy rainfalls,
The reasonablene
The reasonableness of this demand
will not be questioned. In the will not be questioned. In the nature
of the case, the individual cannot of the case, the individual cannot
make this investigation for himself. make this investigation for himself. ceed the financial ability of the man of ordinary means, the advantages of
such survey, however made, cannot but ibe common property. The State is indeed contributing lo such work, and may well be asked to do more in the future than it has done in the past.
The United States has a well-begun The United States has a well-begun
survey only partially completed and survey only partially completed and This survey should be pushed to early completion and should be extended by
such work upon details as shall, tosuch work upon details as shall, to-
gether with the work of the State, furnish a complete key to a knowledge

OOMBINATIONS OF PUMPS AND
WINDMILLS.

The oueston of the matat appropratat slze of pump to use with a given slze
of windmill, is one which has to be met of windmill, is one which has to be met
by every user who desires to get the by every user who desires to get the
maximum of work from his plant. Manufacturers are far from an agreement on this point. Something may be
learned, however, from the various combinations used by the exhlbitors at the Garden City fair. The lift here was seven to ten feet, and it is to be
presumed that each manufacturer used what, in his judgment, was the best combination for this lift. Where the point of delivery is greater, it is to be presumed that smaller pumps would Garden City were all, except one, backgeared, but how much they were backgeared is, for most of them, unknown
to the writer. The difference in backgearing may account for many of the differences in the combinations used.
The following table shows the sizes of The following table shows the sizes of
the mills, the diameters of the cylinders, the mills, the diameters of the cylinders,
the lengths of stroke, the displacements of the pistons and the approximate
amount of water delivered per stroke: amount of water delivered per stroke:

Name of windmill.

## Airmotor Crane Irrigator Crane Irrigator






"Shoppell's Modern Houses," is a
nely illustrated quarterly, which wil finely illustrated quarterly, which will to all who contemplate building or remodeling houses or desire to add mod-
ern conveniences. It is published by the Co-operative Building Plan Association, New York
The officers of the Kansas Irrigation change at the fourth annual meeting. The new officers are: President, Capt.
J. H. Churchill, of Dodge City; Vice President, Judge W. E. Hutchinson, of Ulysses; Secretary, Judge H. N. Lester, of Lakin; Treasurer, Geo. W. Watson
of Larned.

## THE WIOHITA STATE FAIR,

## Last week closed the second annua

 Kansas State fair, held by the Wichita association, Rainy weather prevented asuccessful attendance of visitors on the principal days of the fair, however Friday was the only big day of the discouraged but nervily propose to pay out and go ahead and continue to hold the principal or State fair of Kansas The last three years have been very discouraging timesi for fair associations in Kansas, and therefore the serves conslderable credit for attempting the principal fair of the State. been a real representative, State fair while Kansas has the men and the material-the exhibits and the exhib-itors-with which to hold a state fair unsurpassed by any agricultural State remains that our alleged Kansas State fair for several years past has simply and not in fact. Whate fair in name alleged State fair with theompare our Nebraska, Iowa, Missourl, Minnesota or Illinois, it is simply odious and humiliating to have the grand old State of Kansas occupy the rear rank, we very tail end of the procession of West-
ernilstate fairs. These observations are not made with a view of finding fault not made with a view of finding faul
with either the Topeka or Wichita associations, but merely to call th the state to what has been passing current during recent years as a Stat institution. The Topeka assoclation drifted into a regular district fair and the Wichita attempt is in fact only a first-class district fair. It is true that the fair just closed was highly creditable to the Wichita association, and was pect. The equipment and conveniences with Topeka, but if the same manage ment is able to continue it will speedily make decided improvements in this re spect. Exhibitors present understood the situation and expressed much good will for the efforts of the managemen The wichita gratulations for having gotten up the biggest and best fair held in Kansa for the year 1895, though it did no measure up to the limit of a representative State fair.
The big features of the fair were exhibits and the displays of poultry, of exhibits and the displays
A unique and highly in
instructive feature of the fair r and irrigating ditch, filled with clear run ning water from underflow water of the great Arkansas valley basin. The firm of Fairbanks, Morse \& Co., of Kansas
City, Mo., put in an irrigation outf of ten horse-power gasoline engine and pumps, with which they pumped about 00 gallons per minute into the ditch grounds. This exhibit was an ofject lesson in irrigation that attracted the interested attention of every visitor
to the fair. Mr. T. E. Bower, the to the fair. Mr. T. E. Bower, the erect-
ing engineer, was kept busy explaining machinery and the practical demon stration of th
the underflow
Shawnee county was well represented in the live stock department by the exten Short-horns; headed by Royalty Bates. Also Mr. McMillan, fine show
of German Coach, Percheron and Clydesdale horses, which carried off
all the best premiums in the classes which he showed.
The live stock show was highly creditable, both as to numbers and the
quality of the stock; especially was this The wichita Dilly wine and cattle. lowing to say of the cattle display: " no time in the history of Kansas ha there been an exhibit equal to that displayed at the State fair. Not only is
this class represented by the fine col ored Jerseys, but the great beef cat-Short-horns, are there in great numbers, while the great milk-producing Holsteins. The exhibition must be seen, as no description can do the showing justice. There is the calf of two which tips the beam at 2,980 pounds at the age of six years, while the two-
year-old comes to the front with a representative welghing 2,200 pounds."

EXIHIBITS AND AWARDS Short-horns were shown by J. C.
Hyde, Sunny Dale, Kas.; J. F, Stodder,

Burden, Kas.; Irwin \& Duncan, wiohIta; Peter Sim, Wakarusa, Kas., and prize on aged stock and herd were won
by Harned the others were divided among the exhibitors.
The Hereford cattle show was th hot" rings of the live stock exhibit Sunny Slope farm, Emporia, Kas., had West. This herd carred shown in the premium for bull 2 years, yearling bull, bull calf two-yeariold cow, yearlin heifer and/ helfer call; also the $\$ 25$ stak prize; also four grand sweep ing, for best bull any age, best cow any age, best young herd and bull and fou of his get. Makin Bros., Florence Kas., had fourteen head of grandly they and representative Herefords, but tion as is usual for this herd, probably owing is the fact that the probably making a regular circuit of the fairs this season, therefore second premiums \& Duncan, of Windsor, Ill., had a fin string of show Herefords and suc ceeded in taking first prize on aged cat the, second premium on herd, and divid ng second premlums with Makin Bros The show of dairy cattle was small owned by $\mathbf{R}$ olver Dearborn Jersey six Jerseys, by W. H. Miller, Bayne ville, Kas., and two Holsteln-Frleslan bull calves from sunny Slope farm Mr . Oliver captured the dairy sweep stakes prizes, and divided about equally Jersey classes
The sheep department was represented by thirteen Cotswolds shown by James Waiton, Newton, Kas., and a xhibit of eleven Cotswolds, ten Shrop hires, thirteen Merinos and one Cash shown by H. H. Hayne \& Son, Walton Kas., who made a clean sweep of al premiums, except in the Cotswold
classes, which were divided with Mr plasses,
walton.
The swine department constitute the leading display of live stock and better class of good quality stock ha eldom been shown in the west. Th xhibits were up to date and a pre thing, so warm was the competition In view of the attendance, the pig sale were remarkable, nearly every exhib itor reporting good sales. Dawson Bros., of Nebraska, claimed to have sold fifty head by Saturday. The Kansas breeders held up prices much
than their Nebraska competitor
Swine exhibits were made as follows: P. A. Pearson, Kinsley, twenty-flve Po Leibfried, manager, Emporia, thirty one Poland-Chinas and thirteen Berkshires; R. S. Cook, Wichita, forty-three Poland-Chinas; W. H. Wren, Marion, Kas., sixteen Poland-Chinas (not enSon, Wichita, eight Chester Whites; R. Blodgett \& Sons, Beatrice, Neb., Ches-
ter Whites; W. A. Balley, Kingman, ter Whites; W. A. Bailey, Kingman, a
few Poland-Chinas; L. C. Matson, Kechi, five Poland-Chinas; Dawson Bros., Endicott, Neb., sixty Polandnine Poland-Chinas: Wm Maguire Haven, Kas., eleven Poland-Chinas. The foregoing clearly shows that
this swine display was evidently a Poland-China crowd. The principal Berkshire premiums taken by Sunny Slope farm. The same was true with R. Blodgett \& Sons, in in the Poland-China classes there was first competition. R. S. Cook won first on sow under 1 year and first on all breeders' ring classes, consisting of herd and ter, boar and his get, best also the sweepstakes sow any age; Ir win \& Duncan won first on best sow first on aged boar, first on 6 months P. A. Pearson won first on yearling boar; and Sunny slope farm won first on boar under 6 months, first on sow under 6 months, and second premiums
were divided between R. S. Cook and Sunny Slope farm.
The races were, of course, a leading feature of the fair, and all classes were well filled with speedy horses, and had track permitted, it would have been the of the best race meetings ever held in the State.
What man in his right senses, that has
wherewithal to live free, would make himwherewithal to live free, would make him-
self a slave for superflultes? What does that man want who has enough? Or what
is he the better for ebundance that can is he the ibetter for ebundance t
never be matisfled?-L'Fstrange.

## OLD-FASHIONED AGUE

## Oompared With Ohronio Malaris

The regular, old-time, back-woods ever and ague, also called chills and far, was bad enough in its day, but ke worse disease to bear, somewaia The regular fown as ague would pro uce a distinct chll, followed by fever nd sweating. Then the victim would a a rest of one, two or three day But not so with chronic malaria. Ev ery day, morning, noon and night chronic malaria will tease and plague its victim with miserable, indescribable reeping rigors; nasty, exasperating cold sweats, bitter taste, coated tongue allow, diy skin, hoss or appette, usion ond a myria of simllar symptom as infernal as they are persistent. Not day's intermission nor an hour's ces sation. Work becomes a wearisome worry, study slckening and senseless, and play a prosy impossibility
The quinine treatmen't for chronic maaria is not of the least possible use cute cure the but not the chronle In fact, quinine seems to aggravate rather than relleve. Unless a thorough course of Pe-ru-na is 'taken the patient will seek in vain for rellef. The effect of $\mathrm{Pe}-\mathrm{ru}$-na
manent.
Send for a free book on malaria, pubished by The Pe-ru-na Drug Manufac
turing Company, of Columbus, Ohio.

## Kansas Swine Breeders.

The annual session of the Kansas Swine Breeders Association was held in Wicheouncl chamber of the City hall, 1895. , Tharsday evening, ocr.ober 3 , chair and Wilis $\mathbf{E}$, at the desk. Over thirty members were n attendance.
The "Object of This Association," was the title of the President's paper, and it was of interest to every breeder. Next D. Trott, of Abllene. This was followed by a good talk from H. L. Llebiried, manager of Sunny Slope farm, on "Preserving Health of Herd." R. S. Cook, of Wichita, proprietor ith the Champion herd, "Ame Show Animals succesgelul Breeders?" His excellent remarks were followed by a spicy talk from Brother Hubbard, of Rome, on "Selling Stock on Order." The Secretary then presented a paper on "Line Breeding," which was well recelved. Next came a paper by Prof. C. C. Georgeson, of the State Agricultural college, at Manhattan, and entitled, "Balanced Rations for Breeding Swine. All of the foregoing papers and addresses were exceedingly well prevalue to every one interested in swine value to e
The following officers were elected for the ensuing year: President, R. S. Liebfried, of Emporia; D. Trott, of Abl lene; J. S. Magers, of Arcadia; Ell Zim merman, of Hlawatha; P. A. Pearson, of
Kinsley. Secretary, O. P. Updegraff, of Kinsley.
Topeka.
A vote of thanks was extended to the retiring officers, for efficient services rendered. Same to the Mayor, for use adjourned to meet in Topeka, in semi annual session at call of the Secretary.

## Poultry Business.

Every farmer should be a poultryman,
and every poultryman should know how to breed successfully. The expent in the poultry business is a very valuable per-
son. Jno. Bauscher, Jr., poultryman and son. Jno. Bauscher, Jr., poultryman and seedsman, Freeport, Ill., sends out a book
for the nominal cost of 10 cents, which describes the various breeds, and gives cerning poultry-raising. Mr. Bauscher's stock this year is in very excellent shape

## Publishers' Paragraphs,

Any one troubled with rheumatism will Dearborn street, Chicago, Ill., for treatise and testimonials. Notice his adWmement elsewhere in this issue. WEDDING BELLS.-Not long ago there seems to have been a wedding in dolldom.
The J. C. Ayer Co., Lowell Mass., for the small sum of twelve cents, in stamps,
send a beautiful doll-bride, with a most complete and fashionable trousseau. Every little girl wishes to know of this latest her doll family this latest and prettlest of paper dolls.
Politeness has been defined to be artlficlal good nature; but we may affirm, with
much greater propriety, that good nature
is natural politeness.-Stanislaus.

## §orticulture.

## POROH ADORNMENTS.

By B. B. SMYTH.
Passing along one of the principal restaence streets in ine southwest part great number and variety of vines climbing the porches and sldes of
houses. There seemed to be scarcely two alike. Passing on down into the city the same dissimilarity was noticeable, but the vines were different. Eet something different from everybody else, and with a good show of success.
And they were all very beautiful. There were no ugly vines. The plainest of all in appearanoe was the common hop;
but even that has handsomely-formed but even that has handsomely-formed
leaves, and in the fall very interesting pale green scale-fruits hanging down in ing and instructive I retraced my steps another day and looked around a little grows. And the following list is what I srow:

## N WALLS

1. Lonicera sempervirens (trumpet many other places. Not self-supporting; needs training
2. Ampelopsis quinquefolia (Virginia creeper).-Capt. Wintrode's, Tentr and Harrison; H. P. Dillon's, 919 Harrison;
Bethany college; Methodist church, etc. Bethany college; Methodist church, etc. when young; by sucking rootlets when ond sucking rootlets is this:
and on the ampelopsis are disks which form on the tips of the tendrils, which grow opposite every two leaves out of three,
invariably; and they form only when invariably; and they form only when
the vine grows against a flat surface the vine grows aganns a fat surface
and the tendrils find nothing to wind
themel come from any part of the dark side of an old vine, and are long enough to reach the tree or wall against which The vine rests; as the rootliets become
affixed to the object against which the vine rests, they shorten, drawing the vine up closer. These rootlets are quite of an inch apart, and altogether they hold the vine very firmly. The tendrils are sufficient for the light young branches.
3. Ampelopsis veltchif (Japan Jvy)--
Joab Mulvane's, Twelfth and Topeka Joab Mulvane's, Twelfth and Topeka
avenue; Presbyterian church; Rock avenue; Presbyterian church; Rock Island depot, etc. Climbing by beauti-
fully modified sucking tendrills, more regular than A. quinguefolia. 4. Rhus radicans
Geo. M. Noble's, 915
(ellmbing Harrison. ivy).tree in front yard). Not poisonous and a vigorous grower.
4. Rhus radicans (climbing ivy, poison ivy).-Wild. Climbs by sucking rootiets, plant is poisonous to about one person in five thundred; dangerously poisonous to perhaps one person in te thousand.
To be polsoned by it it is not necessary to touch it. It is satd a susceptible person may be poisoned when the plant
is in bloom though he approach no nearer than twenty feet, and may not see the plant at all. It is not poison-
ous when not in bloom, though the white berries are never edible. Neither are the dark blue berries of the Virginia poisonous. The climbing ivy or poison ivy is quite frequent about our city,
around the State house yard and elsewhere; and many persons pass and re pass these plants every day, yet cases of poisoning are extremely rare. The
writer handles it with perfect impunity in all seasons and in all kinds of early boyhood; has made whistles of the young vines, bitten and blew on them, yet has never suffered in the slightest degree from poisoning by it,
but has known those who were quite severely porsoned by it. 5 . Hedera helix (English ivy).-W. D. Gossett's, 1015 Van Buren street; 1001 rcotlets, but, not self-supporting; must on TreL

Trellises - Climbing by LEANING.
6. Clematis flammula (sweet clematis) - Geo. D. Hale's, Tenth and Van Buren, 7. Clematis viorna (leather bell).-Mrs, W. D. Gilmore's (C. J. Brown's), 1257 though the wild form is frequently seen about the city
8. Clematis virginiana (virgin's bower)--Joab Mulvane's, 1133 Topeka
avenue; G. W. Crane's, Ninth and Harrison, and elsewhere. Ninth and Har-clematis).-T. E. Bowman's, Tenth and

Van Buren, and numerous other places. 10. Clematis Jackmannil alba large 1000 Topeka avenue.
11. Adlumia cirrihosa (Allegheny vine).

- Mrs. E. Christmian's, 720 Harrison 11. Ad
-Mrs.
street. 12. Akebla quinata.-Kansas Medicas college, Twelifth street, near Poik. 13. Pelargonium pera umis geranium).-Mrs. J. P. Davis, 1034 Toa pot set on the porch.

14. Rosa setigera, Prairie Queen, and other climbing roses. - Mrs. A. A. A.
Hurd's, 1134 Tyler; Mrs. G. W. Grane's; 1133 Harrison, and many, other places. 15. Tecoma radicans (trumpet creeper).-W. T. Croshy's, ${ }^{\text {a }}$, 905 Topeka
avenue; A. H. Bates', 1251 Western avenue; A. H. Bates', 1251
15. Solanum Jasminoldes (matrimony vine).-A. F. Horner's, Ninith and Tyler. A very fine one, covering a large trellis. Also other places.
16. Lygodium scandens
dilmbing fern).-Mrs. J. w. Magill's dilmbing' fern).-Mrs. J. W. Magill's,
1253 Clay. Not old enough to climb, but 1253 Clay. Not old
worthy of notice.

Climbing by tendrils.
2. Ampelopsis quinquefolia (Virginja creeper).-H. H. Mills, ${ }^{1115 \text { Polk, and }}$
many places on trellises. Does not de velop suckers, but ourls its tendrils, when growing on a trellis.
18. Vitis cordifolia (wild grape)-A vine at Homer Boughton's, 1106 Topeka avenue, ttwo years old from the ground,
covers 240 square feet of trellis and had covers 240 square feet of treliss and had
nearly 6,000 clusters of blossoms on it last spring. It is a male plant (a some what rare thing among grapes) and was cut to the ground in April, 1893, together wilth an old cherry tree upon which it
had been growing. It is now a thing of beauty.
19. Vitis vinifera (grape, several va-rietiess.-E. M. Sherde.
and numerous places.
20. Cardiospermum halleacabum (balstreet.
21. Lathyrus odoratus (sweet peas, many varietles).-Numerous places.
22. Passiflora 22. Passiflora, Incarnata (passion venue, etc.
23. Passiffora cerulea (passion flower). F. E. Wear's, 1269 Tlopeka avenue, and F. E. Wear
24. Cobaea scandens (climbing foxpeka avenue.
25. Momordica balsamina (balsam apple, balsam pear).-Mrs. Kingsley's, opeka avenue, and other places. 26. Cucumis acutangulatus (aishra ka avenue. This is unique
27. Sicyos angulatus (bur cucumber) This is declared to be poisonous ito 28. Smen to look at when in bloom. -Geo. W. Reed's, 1133 Harrison. A very handsome plant.
29. Smilax rotundifolial (greenbrier).-
W. H. Edwards', 1033 Van Buren CLIMBING BY TWINING.
30. Tropaeolum majus (olimbing nas-turtium).-Mrs. A. H. Horton's, 909 Harison; 809 West Tenth;
enue, and other places.
31. Tropaeolum peregrinum (canary lower).-Looation forgotten.
33. Celastrus scandens (climbing bit-tersweet).-Dr. Wm. Smith's, 510 West Tenth street. Beautiful, with its scarhanging on in the fall.
hanging on in the fall.
34. Phaseolus multiflorus (scarlet run35. Doltohos lablaib (Egyptian bean, hyacinith bean).-Mrs. Magill's, 1253 Clay, and other places.
36. Wistaria sinensis (wistaria).-Col A. B. Jetmore's, 931 Harrison, and many ther places.
37. Lonicera sullivantil (coral honey-
uckle).-Mrs. Healy's, 1000 Topeka enue, and other places. 38. Lonicera grata (sweet honey-suckle).-Mrs. H. Armstrong's, 1009 Topera avenue, and many other places.
39. Lonicera caprifolium
(common honeysuckle),-T. E. Bowman's, T
and Van Buren, and many places. 40. Lonicera flava (yellow honeyand Harrison, and ather places. 1. Lonicera, sempervirens (trumpet honeysuckle).- 1107 Polk street, and many other places.
41. Lonicera variegata (golden-leafed
honeysuckle).-Mrs. E. A. Calleway's, 1276 Tyler street
42. Lonicera Japonica (Japan honey-
uckle).-Ed. A. Austin's uckle).-Ed. A. Austin's, King and Fill more, and other places.
43. Lonicera halliana
honeysuckle).-At the writer's, Ninth and Harrison, and other places. 44. Tonicera - ("custard" 'honey-
suckle).-Mrs. GH1more's, 1257 Topeka 45. Ip
45. Ipomoea bona-nox; I. Mexicana; I. Whder's, 1021 Harrison, and numerous ther places.
46. Ipomoea batatas (sweet potato).Occasionally seen cultivalted as a porch limber. Interesting as such.
47. Ipomoea purpurea (purple morn-
ng-glory, in many colors).-Numerous places, largely self-sown
48. Ipomoea hederacea (blue morningglory, in various shades of blue ani white).-Different places, mostly selfsown.
49. Ipomoea coccinea (scarlet cypress
vine).-W. W. Manspeaker's, 1001 Harrison; also self-sown at corner Van Buren and Huntoon, adition.
places in M. \& D.'s addition

## 50. Ipomoea quamoclit (cypr

white and crimson)-Rev. I Blakes ley's, Eighth and Polk; 513 West Ninth and many other places.
51. Convolvulus sepium (white creeper or evening beauty).-At the writer's, Ninth and Harrison. Perennial, climbToo vigorous to be desirable.
52 vigorous to be desirable.
nial.
ni.
53. Convolvulus arvensis.-Washburn
college. Perennial; wild; slightly in54 Poline to climb.
54. Polygonum dumetorum (ellimbling buckw
Buren.
55.
55. Maurandya antirrhiniflora (mau56. Hoys.-Mrs, Magill's, 1253 Clay.
56. Hoya carnosa (wax plant)-A. W Tlinkham's, 827 Topeka avenue; Mrs. Gilmore's, 1257 Topeka avenue. House
plants, set out of doors for the summer.
57.
57. Periploca graeca (sllk vine).-
Judge A. B. Quinton's Judge A. B. Quinton's, 1247 Topeka avenue; Mrs Gilmore's, 1257 Topel
avenue. Both magnificent planits. 58. Jasminum odoratissimum (swe 58. Jasminum odoratissimum (sweet
yellow jassamine).-Mrs. Gilmore's, 1257 Topeka avenue.
59. Aristoloohia sipho (Dutohman's pipe).-Same place
60. Madeira vine.-Judge Horton's, 909

Harrison; Mrs. Crane's, Ninth and Har61. and other places.
61. Dloscorea Japonica (cinnamon
vine).-N. P. Garretson's, 1101 Harrison 1011 Topeka avenue, and other places.
62. Humulus lupulus (wild hop) -A

Johnston's, 516 West Eighth, and two or three other places; growing on fences. 63. Humulus japonicus (Japan hop).1261 Topeka avenue.
A visit to another quariter of the city would no doubt disclose several other vines, such as Calampelis scabra, Loosa, Abobra viridifiora, Pilogyne suavis, Thunbergia alata, Mina lobata, Ipomoea setosa, etc., as these have all, except the last two, been seen in past years The following vines grow wild in the country, and some of them would make
desirable porch vines, dn addition to desirable poroh vine
those already in use:
those already in use
seed).-Five-cornered leaves large (moonlitz island.
65. Vitis indivisa.-A strong grower ries grape; leaves heart-s
66. Aplos tuberosa (wild bean).-Well worthy of cultivation; almost as handsome as wistaria, w
67. Echinocystis lobata (wild cucumshade in a shade in a short time. Frequently grown
in the city for shade. The main objection to it is that it is troubled by hemipitera (squash bugs).
68. Ipomoea pandurata (wild morn-Ing-glory).-Halberd-shaped Shunganunga creek.
69. Enslenia alblda (wlld sllk vine).-Heart-s
creek.
70. Sinilax pseudo-china (china brier). -Roundish heart-shaped leaves, deep green, with parallel ribs; few or no bottoms.
And there are others not so desirable, as Phaseolus helvolus (wild bean vine),

A General Insecticide.
For some years I have been using and rommendding tobacco dust as an allground for the cucumber bettle, plar.t Hee and for worms of all kinds, and It is surely rase of the swiftest of all insecticides we can apply, almost or fully very satisfactory resul'ts for years. If sifted or scattered over currant bushes
the currant worms curl up and die, and
the bushes will be free lerom the pest them for some time. If blown into the heart of cabbage plants, te means the end of the green worm. Appiled in the same way to the mests of caterpinlars (and the trees all around us at this time are full of them), especially in the mornng or evening, when the worms are al in less than an hour. In short for good know what worm or other , 1 hardly insect the contact with tobacco dust would not speedily kill. I believe it whl even put an end to the potato slug. It is distasteful to many hard-shell beetles also, as may be seen by the fact that with heavy appllcations we can drive the squash bug) The fle (andtle unfor tunately is not so feastly conquere even if it does mot like tobacco smell. Surely, tobacco dust must be considered a most excellent insecticide, and as is not expensive (in some cases, per haps, the sweepings of cigar factorles, ng), I thill and can be had for the haulng, I think every soll-thlier should I have hanal
with the usually applied tobacco dust freely over bushes and plants, and around cucumber, melon and squash vines even inch deep on the ground The stuff is.worth nearly the full price asked for it (\$3 per barrel or so) as a fer thizer, and I have not felt the necessity of using it in a particularly economica nests, however, hand bellows of some kind are almost a necessity, as we wran to blow the dust well among the leave or the webs. The ondinary cheap hand bellows, as offered for sale by seedsmen and hardware stores, will do very wel for cabbages; but for the caterpllilar that dwell in the tents on trees we nee remder the application more conver and There are larger bellows, like the Leg gett "powder-gun" and others, which will do the work to perfection. Wdth means so sure and cheap and easily ap or bush, escape to bring on more trouble or bush, escape to bring on
for the future.-T. Greiner

## ATTENTION.

## Should be given at once to any symptom or signs of disease as soon as they manifest themselves. By

 so doing you may save muoh suffering and expense.DR. HATH DR. HATHAWAY \& CO., the experienced and
established speclaltsts, have devoted years to established specialsts, have devoted years to the
exclusive treatment of those delleate and private diseases of men and women
Blood and skin dise


PINEOLA - COUGH • BALSAM


## In the Dairy.

## ,imuminu numin

"Does it Pay to Shelter Miloh Oows in Winter?"
The above significant question is the
subject matter of one-half of Bulletin subject matter of one-half of Bulletin
47, from the Experiment Station of the purdue Undversity, of Indiana. One to be asked of the men who lived In the dark ages. Can it be that real bona fide American farmers, men who pretend to know that they are living in this year
of our Lord 1894, need to have such a of our Lord 1894, need to have such a
question thrust upon their attention? question thrust upon their attention? Can it be that there are farmers-dairy-
men-who believe that cows do not need men-who belleve that cows do not need are lots of them. Even in the old dalry
districts of New York there are thousands of farmers who turn ther cows
out of the stable in cold weather, at nine o'clock in the morning and leave them out till four o'clock in the afternoon. During the last month we have scen scores of such herds of cows wandering
ankle deep in' the snow over "the fields, ankle deep dn' the snow over 'the fields, Plumb dn the aforesaid bulletin says: "In one of the coldest days of Dewith flying snow flakes, the writer rode 150 miles on the railways within the borders of Indiana, and for over two"thirds of the whole of thls distance
within view of the cars stood dherds of within view of the cars stood therds of flelds. Instances have been known of herds of twenty or thirty dairy, cows turned into the corn fields where the temperature was conslderably below
zero, and cows have been seen with zero, and cows have been seen with
blankets of dee or sleet on their backs that would not melt, owing to the excessive cold.'
way of conolusion on this point, Director Way or conolusion on this point, Director into two dots, so as 'to make each about even in milk yleld. Lot I. was kept in the barn, din stalls, except for about an hour each day when the weather was
sunny or mild, when they were turned into the barnyand. In disagreeable weather the cows of this lot were turned to the stable. Lot II. was turned into the yard each morning at 8 o'clock, in all p. m. As all the cows were kept over night in a warm stable, the conditions
were better than many herds recelved. were better than many herds received.
A trial of these two lots under these A trial of these two lots under these conditions was made for forty-eight the same in each case, it beling clover
hay, conn meal and bran. It is very dnhay, conn meal and bran. It is very dnperiment all the way through, but we have not the room to publish more than the fina
Iows: food consumed, lot I. consumed 1,996.2 pounds clover hay, 1,239 pounds corn meal, $1,168.5$ pounds of bran. Total, 4,403.7 pounds. Lot II. consumed $1,483.8$
pounds clover hay, 1,627 pounde corn
meal, $1,536.7$ pounds bran. Total, $4,647.5$ meal, 1,536.7 pounds irran. Total, 4,647.5
pounds. The cost of the food is based on $\$ 8$ a ton for hay, $\$ 20$ a ton for corn meal,
$\$ 13$ a ton for bran. At these rates, lot' $\$ 13$ a ton for bran. At these rates, lot
I. made a saving in food of $\$ 4.23$. The 1. made a saving in food of \$4.23. The corded at each milking. Lot I. gave pounds; gain of lot I. over lot II. 161.1 pounds. At the market price of milk, 15 cents a gallon, the gain of lot I. over lot
II. was $\$ 2.79$. The figures show that lot II. ate more food and made less milk than lot I. In the gain in live weight the
difference was very marked. Lot I. difference was very marked. Liot I.
gained during the experiment 231 gained during the experiment 231
pounds, while lot II. dost 33 pounds. We by the bulletin:
Saving in cost of feed eaten....
Saved by shentertern 3 cows.
Every item save that on......... 4.26 Every item, save that of the gain in
live weight, was at once avallable in cash. The usual length of time for foddering cows in northern climates is for a whole winter? Then, if this be
true of three cows, where will the true of three cows, where will the
wicked and ungodly appear that have fifteen to forty or fifty cows? Any man who has ciphered as far as long division ought to be able to see for himself the fearful waste that is going on because
of this out-door business. - Hoard's Dalryman.
Improper and deficient care of the scalp will cause grayness of the hair and baldness. Escape both by the use of
that rellable specific, Hall's Hair Rethat reliable specific, Hall's Hair Re -
newer.

## To Paok Butter for ${ }^{0}$ Winter.

Good butter may be safely packed to keep six months or more is the righ ago, when it was the custom to keep the surplus product for sale then, there being no winter dadrying to supply the de-
mand. The butter must be naturally mand. The butter must be naturally good and sweet and worked quite free ing. There need be no fear that this will hurt the butter for it car that this anything from it, the fat belng wholly insoluble in water, and only the buttermilk will be washed out of it, which it must be, or it whll be a detriment to the butter, as producing changes of the fat into volatile aclde, by which the butter is made strong and inally rancid. The earthen jars or sweet, clean white oal or spruce tubs, painted or varnished on the outside. The tubs are soaked in brine, then scalded, then washed in two or three waters, then rubbed with fine
salt inslde, and while wet the butter is salt inslde, and whille wet the butter is
packed in them, being firmly pressed down so as to leave no vacancles in the within half an inch of the top filed to cloth, or, better, some parchment paper ds fitted olosely over the butter and half an inch up the edge of the package, flne dry salt is then put in smoothly to the
top, then a dry cloth, well washed, is tied top, then a dry oloth, well washed, is tied
down flrmily, then panchment paper and then one more cloth. The air is thus excluded, and the butter whll be as good packed, as it undergoes a ripening pro oess by which the fine flavor of the bes butter is developed.-Montreal Herald.

## When to Make Butter.

Of all the thankless tasks attempted butter for market is the most discouraging. Possibly they feel compelled to do and must the cows are on the farm so small. But is it not mistaken econ omy, this making of eight and ten-cen butter? Hundreds of thousands o pounds are dumped on the market each summer, and bring but a mere pittance It entans a lot of hard work, and the
returns are meagre. Most farmers at tempt too much, consequently the cows are not well kept, and the wife has to
do the milking and "A hittle farm well tilled" wil probably never be the rule in
this great "far West," at least not until the land is more densely populated. In the general rush and hurry,
butter-making is a side issue. Making butter-making is a side issue. Making does pay, and many farmers' wives But to the producer of farm butter for But to the producer of farm butter for
market, I say, keep fewer cows and ralse more chickens during the hot Wearther. Make butter during the winter, a's it then almost invariably brings a good price. If you do not live suffciently near to a creamery to which you can send your milk in summer,
feed it to growing pigs, chickens and laying hens. By this use it will pay a larger dividend than if converted into ble butter.
Many farms are supporting unprofit their feed and care them out and give Breed for better milk and butter-pro ducing animals. Learn how to make the best butter. Plan to have the cows
fresh during the late fall, winter or early spring, when prices are good, the labor of butter-making less wearisome, and when the men can help at the churn.
Make all the butter possible at that Make all the butter qpossible at that
season. Put it on the market in an attractive form, and by keeping each soon have a reputation for good butter which will enable you to get more than the regular market price. If knowledge
is lacking, go somewhere and take lessons.

## Dairy Notes.

At the instance of Dairy Commis-
sioner Adams, the Wisconsin hibiting the sale of oleomargarine, pro and sustained in to reser, has been tested Madison, Wis in a test case tried a Madison, Wis.
An Eastern dalryman says: "The man
who is too aristooratic to who is too aristooratic to mingle freely
with hils calves, and his cows, also, will never succeed as a breeder of dairy nature as well as to a man's.
her social nature that comes not only the milk but the fa't as well, given from a spirit of pure motherly beneficence
The farmers of Dickinson county re
celved $\$ 24,000$ for milk during the month of July. The Belle Springe Creamery Company, alone, with its four or flv
braniches, paid $\$ 14,000$ of the above
Such an exhibit as this from a county Such an exhibit as thits from a county than any other part of the State during the summer, shows that the dairy business is taking the lead, and can be
made to pay where the amount of raln is too small for wheat and corn.
The Association of Agricultural
leges and Experiment Stations, at Col late meeting, in Denver, adopted two very important resolutions in regard to the testing of miloh cows. The first wa to the effect that all official tests should be made with the Babcock test. The
second' was tha't in all estimates of but second was tha't dn all estimates of but
ter capacity the yileld should be figured the adding one-sixth (16 2-3 per cent.) pounds of milk which tests 5 per cent fat, her butter yleld will be estimated a 150 pounds (total fat) plus one-si
pound (surplus), or 1.75 pounds. Nothin
he turns
talne.

Heart Disease Kills Suddenly; but never without warning symptoms, such as Faint, Weak or Hungry Spells, or Palpitation of the Heart, Ohoking Sensations, Shortness of Breath, Swelling of Feet

Dr. Miles' Heart Cure,
Cures Heart Disease.


Mr. Geo. L. Smith, of the Geo. L. Smith Mantel Co., Louisville, Ky., writes Feb. 26, erer from about a year I was a terrible sufI was obliged to trouble, which got so bad breath. 1 had to abandon business and could hardly crawl around. My friend, Mr ulitus O. Voght, one of our leading pharma
cists, asked me to try Dr. Miles' Heart Cure I had used little more than a bottle when the pain ceased and palpitations entirely disappeared. I have not had the slightest trouble since, and today I am attending to business as regularly as ever.
Sold by druggists everywhere. Book on Meart and Nerves sent free. Address Dr
Ir. Miles' Remedies Restore Heallh.
DEAFNESS
 Mas Midy


A. H. GRLIESA, Propr Fansses. Home Nur

 WILIIS NURSERIES.
Orfers for fall of 1895 large etook, beat, ascortment.
prices tive We Bhonla be glad to employ a fow rellable
salesmen. Address [ When writing mention KANBAB FARMMRE]
 SHED.
 SAVE YOU MONEY and give you the right in the center of the best seed-producng country in Minnesota, that have the or best quality. Always buy veur prices FARMER SEED CO., Faribault, Minn. o. KOzLOWSKI, Manager

## TheWestern Trail

 JOHN SEBASTIAN, G. P. A.
Kansas Tannery.

 M. C. BYRD, Lawrence, Kas.

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## HEXXHET Hay is Plenty and Corn is Husked

## where the corn crop is

 Keystone Corn Huske and Fodder Shredder.
## ESTABLISHED IN 1865.

Hart Pioneer Nurseries

FORT SCOTT, KANSAS.

A. B. COMBS, Assistant Secretary.

Five hundred and sixty acres in nursery and 240 acres in bearing orchard. Extensive growers for the wholesale and retail trade. All kinds of nursery tock for sale. Write and obtain our prices before placing your order elsewhere. and ship from the same grounds. SPEOIAL PRIOES on large orders and carload ots. We solicit correspondence and invite inspection of our stock.
UTHETHABLE AGENTS WANTED.


Che Feterinatian.


LAME MULE.-I have a mule that fell on a scraper and cut and bruised the knee joint of the hind leg on the knee was swollen twice the natural
 nothing but blood came from it We kept a poultice on at times, then bathed Nowata
Answer.-Apply a cantharidine bliste o the enlargement and turn the mule any more or you may have an open joint.

## About Marketing Produce.

Most farmers who have live stock have learned to market them direct, but mainly on the local dealer, and he in turn usually ships to some commission mechant, which the farmer could do himself, and therebyi save a large marprincipal markets there are trustworthy merchant, which the farmer could do commission merchants who do a legitimate business, and with this thing for sale, should communicate and advise with before marketing the pro-
The principal drawback has been the swindling operations of dishonest concausing the shipper to lose. However, it is a very easy matter to ascertain who is responsible and reliable previous to shipment. The Kansas Farmer Com-
pany always investigates every such house before they admit their advertisement ito their columns, and we shall clal standing of any house soliciting Kansas business for our readers. Another difficulty encountered farmers shipping grain, is the great trouble in getting cars, because the local grain buyer usually so manipulates matters as to discourage individua shippers. However, if in such cases our readers will report the matter to this Railload Commissioners have to prevent discriminations
Another important point in shipping in less than car lots is to know just to confer with them previous to shipment It pays to ship your own products, pro vided, you do it properly. As showing some of the difficulties to be encoun
tered, we quote the following from the New York Tribune:
The Rochester TYmes says an abun his crop of apples will be gathered in Monroe, Orleans of the orchards of counties have developed heavily i places where a good yield was once de
"Some of the Tribune's subscribers oc office about commission men in this city and even the goods that have been forwarded here, mall, after arrival, fails to bring then could be more consistently sen't to erer Stil, is not impossible that consignments may a't times fall into the hands of irre
sponsible, unprincipled persons, bu property can be forwarded to known
reputable dealers, men who have been produce trade. Ev, established in the roundings, owners should comprehend that all goods are expected to take their it often happens that scattering parcels or lots of produce have an impediment
o their sale by being composed of odds and ends-things that may have been perhaps perishable and held back too
ompete with "the promptness of sale strictly true of old dairy products, which can obtain no promotion in quality when Any well-established dealer will say that Any well-established dealer will say th
strictly first-class food commodities, particularly those of the dairy. The best suggestion that can be
given in reference to marketing translent lots of perlshable produce, when they have not been picked up by col-
lectors, is for the sender to know that his goods have unquestionable merit
and aim to ship them to parties who deal in speclalties. Of course, such firms prefer to handle good-sized commercia) IInes; still, as we have remarked, ther is always room for choice small lines. There are dim New York and other
large cities a large number of dealers who run a miscellaneous store business. In this they are forced to cater to the would do no good to dellcate butter to be cheese and iightly-guarded egg weather with piles of cabbages, barrels of onions or fruits of varying condition. The nature of this mixed business, as a rule, prevents the dealers from having the requisite facilties for properly hous-
ing stuff. Besides, they have not the time to give needed attention to certain strictly fine produce
"Always correspond with the party you propose to entrust goods with befor you ship. The leading finms of any
trade will possibly advise you where to place your offering if they decline to handle it.

In answer to several recent corre merclal standing of F. I. Sage \& Son mercial standing of F. I. Sage \& Son firm and they readily gave him an ex hibtt of their current buelness, and also gave him a note of introduction to thei
New York bankers, directing them to respond to any questions that might h asked as to their standing. The bank
ers stated that they regarded the flrm ers stated that they regarded the firm
among their most straightforward cus tomers. Mr. Sage explained, in refer ence to the non-sale of several old par cels of butter, that they 'struck the mar devold of proper table merit, and that a menchant could hardly be expected to that was dying on his hands.'

## Of Interest to Beef Breeders.

## Thls sald that Kansas is a land of sur rises, and our field man reports one

 his surprises of the year in the late visit at the Rock Creek herd of Hereford cattleownea by the Sheldon \& Wheeler Hererero Cattle Company, located near Burlingame Sage county. Wenty-six miles south
Topeka, on the Atchison, Toneke Fe railron. The herd was founded in the early elghties by Thos. J. Higgris. formerly rrom time to time by the best Ennllsh an American animals. Its history in the show tings of the West and the strong character
of the general make-up of the herd 1 s familla reneme with the beer cattle breed-
ars of an the West. The herd now consists of over two hundired head, of which one
hundred ana seven are mature breedint cows, and among them a strong





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That the reader may the more defnitely










 More will be given later on concoerning
the reeint
he regiter ot the females that comprise


## ye

## Gossip Abont Stook.

 The most extensive sale of Doddies eve Inered in Kansas wion me made at Connors,y Kirkpatrick \& Son's sale of Aberdeen
 tire herd, and therefore presents a rare
chane o to get a oood start with this fa-
mous
K. N. Friesen proprietor of the Garden

## 

specton of hes stok and rif inetrss tha
when you write you aiways menton wher youn sou hris a tinouncememnt.

## The attentlon of our readers Is called t



要y the largest hog

## That extensive breeder, Mr. T. A. Hub


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## ples sice gran

## der



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Helps for the Housewife.
$\qquad$ and more lessened by the many helpful, genuity has made possible. One of the mos practical and effective machines of this miass is the Enterprise Meat Chopper, which meat, Hamburg steak, beef for tea, corn for the smailest being large enough for an orbe afforded by any family. prise Manufacturing Company, Third and Dauphin Sts., Philadelphia, manufacture among which are the Enterprise Raisin in five minutes). These devices are sold by hardware and general dealers everywhere. An attractive descriptive catalogue wny one on application. It will
housekeeper to send for it.
PATENTS.
T. S. BROWN,

Patent Attorney and Solicitor. Fifteen
Years' Experience.
335 Sheidley Bldg. KANSAS CITY, MO. A FARM! in KANSAS.
A big prolific farm cheap. Cheap because
the owner is too busy and too far away to run it. The Mt. Pleasant, Stock Farm, at
Colony, Anderson county, East Kansas t, 439 acres of land; fine buildings. Write
for booklet with surprising offer. Write J. B. LEWIS, 301 OongressSt., Boston,Mass.

TEN ACRES IS ENOUGH

## 




 The very best judgment used for those entrusting
seleoction to us, and their interests protected.
We have



TWO-CENT COLUMN.














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 THE FIEREST How





 Salesmen Wanted!

 DIRECT-UM BIT! $4=$ RAGINE MALLEABLE IRON CO.,Racine, WIs.


Want Agents an salary or ormmission. Send
forcatalogueof pricos and terms. No wicks used. NATIONAL OIL BURNER OO.
OLEVELAND, $O$.
$\underline{\underline{18}}$

MARKET REPORT8.
Tansas OIty Live stook.
 Saturday, 1,44 cattle; es oalves. The market was generally steady, on both sides of the river-
 Shee-Reeipts since Saturday, 5,845 : 8 hipped
Saturday. 787 The market was generally 100
lower. The following are representative sales
 Horses-Receipts since Saturday, 3ie:shipped
Saturday, 47. The market was quiet to day ers are coming to the city and receipts are fair This week's market promises to be as strong
as last week. There is some inquiry for mules Chicago Live stock.
Crioaco, Oct. 7 .-Cattle-Recelpts, 22,500:
market steady; best 100 higher: market steady; best 100 higher: fair to bes
beeves, $88.50 @ 5.60 ;$ stockers and feeders,
 82.75@3.35: western, 83.00@4.15. Hogs-Receipts, 35,000 ; market steady early
and 50 lower later: light, 83.70 @4.30; rough and 50 lower later: 11 ght, $83.70 @ 4.30$; rough
packing, $83.55 @ 3.70$; mixed and butchers, $83.70 @$ p.30: heavy packing and shipning, $83.75 @ 4.35$; plgs, 81.75 © 4.05 .
Sheep-Receipts, 20,000; market strong; na-
tive, 81.50 © 3.85 western, ${ }_{82} 2503.60$; Tisas tive,
$81.60 @ 2.90$; lambs, 83.0094 .80.
 tive steers, $83.50 @ 5.25$.
 heavy, 84.10 @4.20; mixed, 83.70 (64.10; 1ight, 84.00
©4.20.
Sheep-Receipts, 2,000 ; market shade lower.

Chleago Graln and Provisions.


Kansas City Grain.
Kansas Crry, Oct 8.-Wheat by sample were the largest of the orop year. There was Were the largest of time but buyers got all
a fair demand for a time, but
they wanted before all samples were sold, and at the close the market was very weak, with
some samples unsold Soft wheat went down as much as other varieties.
Receipts of wheat to-day, 216 oars: a year
ago, 57 cars. ago, 57 cars.
Sale of car
Sale of car lots by sample on track, Kansas
City: No. 2 hard, 6 cars choice early, 58 ,

 cars 510,8 cars 500 ; No. 4 hard, 1 car 47 o . 3
cars 450,1 car 440,1 car 430,6 oars 420,2 cars

 red, 4 cars 550,1 aar 530,1 car 520 : rejected, 8 cars
$45 \mathrm{c}, 1$ car 4202 ears 400 , no 8 rade, nominally



## (®)ABE BLCNJE  5/A BAKER BLAMKET.

 Many Have Worn 16 (2) When you write mention Kansas Farmer.Corn sold rather slowly. There were plenty Man
than that. Most sales were about $1 / 0$ mo lower than Saturday's prices. No. 3 corn sold a cent
lower. lower.
Recoip
Ren

## 10 cars Sales

mixed by sample on track, Kansas City: No.
 oars 250 . No. 3 mixed, 4 oars 240,1 ear $241 / 50$;
No. 4 mixed, nominally, 220; no grade, nomi-
 250, 1 car $201 / 30$; Na. 3 white, 1 oar $25 \mathrm{c}, 1$ car
$24 / 10$. slowly, with a good many on sale. Prices varied
a good deal beeause of billing. a good deal beoause of billing.
Recelpts of oats to-day, 45 oars; a year
ago, 22 cars.
Sales by sample on track, Kansas City: No,
 14\%0, 1 car 141/3, 2 ears 140: No. 4. nominally
12@130; no grade, nominally 10a110; No 2 white oats, 2 oars choice early, $191 / \mathrm{co}$,1 car
190,3 cars $181 / 2,1$ ear 180; No. 3 white, 1 car early, 181/0, 1 oar 180, 2 cars $17 \% / 50,1$ car $161 / 0$,
1 oar 160.
Hay-Recelpts, 84 cars; market steady:


Kansas City Produce.
Kansas Crix, Oct. 7.-Butter-The market is steady at quotations: extra fancy separator
$20 @ 201 / 20$ fair, 17 a 180 ; dairy fancy, firm, $14 \cong 150$ store packed, fresh, $9 i 111$; off grades, 7
Eggs-Strictly fresh oandled stook,
doz Poutry-Hens, 60: springs, $6 y$ 2070
150. Turkeys,7s@80: spring turkeys,over 8 lbs. $81 / \mathrm{c}:$ under 8 lbs, not wanted in this market
Ducks, 7980 Geese, not wanted, $8 \times(240$ springs, 7o. Pigeons, 81.00 per doz.
Fruits-Apples-Cooking apples sell from 15 @250 per bu; cholee eating apples sell from
30 ف100: fancy, 81.00 d1.50 per bbl. $30 @ 100$ fancy, 81.00 al. 30 per bbl. common
to good, $50 @ 750$ per bbl: home grown stock sells a little higher in a small way. GrapesPennsylvanla, New York and Ohlo Concords,
$9-1 \mathrm{~b}$ baskets, new stock, fancy, $20 \overline{2} 29$ : poor 9-1b baskets, new stock, fancy, 20 $2231 / \mathrm{c}$ : poor
stock nearly all cleaned up and sells at from stock nearly all cleaned up and sells at from
10a180 wild grapes, 1021 oper peck. Peaches
-Home arown,35@450 per peck: Michigan stock 82.00 a.:25 per bu: 40 c per $1-5$ bu. basket: MIs-
sourl stock, trays
 kranberries, $87.00 @ 7.50$ per bbl
Coter
DROVERS ${ }^{\text {connirsos }}$ Kansas City, Mo., Stock Yards. G. W. Clawson, Lonns. MONEY LOANED A. P. MOMURA', OR-
SALEEMEN. Feeders Furnished
SAM. WESTHO HALESMAN. When you write mention Kansas Farmer
1 Y Us. W0 sell your Poultry, Veals,

J. F. GRINDELL \& CO. Recelvers and shippers of
Personal attention given
to contignments.
Reference, Mlssourl Nat. Bank. Rerenson's Clpher Code.
AGENTS, COTTONSEED MEAL. 1228 West Twelfth Street, Kansas City, Mo Rheumatism Cured BY ABBOTT BROS.

## RHEUMATIC CURE.

RHEUMMATISM is caused by urlic acld in the

 and do noo throw 1 tor or from the sytem. Restore
the kideneys and you will resore the power that
will force the aric
 CURE does. It drives the deadly urlo acid from
the bliod. It
It
 Irse and the forces that make pure blood. For the
nervous troule of youth and the deblity the
ne
 extraot from on
we have on fle:
Rev, Whillam B. Leach, D. D., the wldely.known
pastor of St. Pauts M. E. church, Center Ave. and Fay S. Chicago, III, write8: it have used Abrot
Bros.' Rheumatic Cure and has
 markable cures. It is just the thing for rheumatism
and neuralyla and is the poor man's benefactor, as it saves ocotors sblus. I meot with cases every, daa
in my immense charge where it has oompletely In my immense charge where it has completely
cured. it ariords me pleasure to recommend it to
the affloted."

 Meat Chopper chops, easily, meat for sausage, hash, and mince meat, chops, easily, meat fripe, cod fish, scraps for poultry, corn for fritters, etc. small family choper to the largest power machine. Ask for it at the hardware dealers. Catalogue free. THE ENTERPRISE MFG. CO., 3d \& Dauphin Sts., PHILADELPHIA, PA.

Are you looking for a place where you can improve your present condition and insure the future of your children? If so, write The Texas folonization Co., 315 S . Sixteenth St., Omaha, Nebraska.

## BROOM CORN <br> F. JELLK \& SON, 53 Walnut Street Cincinnati, 0 .

 ALL CONSIGNMENTS.Commission Merchants and REFER TO ANY CINCINNATI BANK, dealers in Broom Corn and all kinds

## Ship Your Produce Direct <br> TO MARKET. It is the only way to get the true value of what you have to

 it every day. We receive and sell: Butter, Eggs, Poultry, Veal, Game, Hay, Grain, Beans, Seeds, Potatoes, Broom Corn, Hides. Wool, Green and Dried Fruit, Vegetables, orany thing you may have Write. us for Prices, shippingTags, or any information you may want. $\&$ CO., Commission Merchants,
SUMMERS, MORRISON 174 South Water Street, CHICAGO,

## THE STRAY LIST.

FOR WEEK ENDING SEPT. 25, 1895. Ho
 ld, fourteen hands
head; valued at $\$ 15$.

Russell county-Ira D. Fleck, clerk. FIVE CALVES-Taken up by J. A. Householder, Ave calves, about 5 or 6 months old, as follows:
Three back helfers, one red hefer and one red
boer steer; no marks or brands; valued at 82. Cherokee county-P. M. Humphrey, clerk
 and
bone nn both hind feeti, valued at 815 .
MARE-Taken up by Riley Wright, in Lowell tp, one bay mare. 4 years oll, branded Fon left
hip, white on right hind foot; valued at 815 . FOR WEEK ENDING OOTOBER 2, 1895. Labette county-J. F. Thompson, clerk. MARE-Taken up by John Byram, in Howard tp.,
Auguet 15, 1899 , one black mare, fourteen hands
hat hlgh. star in forehead; valued at 110 .
ho $88 \mathrm{E}-\mathrm{By}$ Bame, one tron-gray horse, blaze face;
Bourbon county-G. H. Requa, clerk. MARE-Taken up by C. F. Shaffer, In Freedom
tp.. one black mare. 4 years old. abounffteen and one-half hands high, star lu forehead, and what
seem to be a wire cut on right fore leg below knee;
velined FOR WEEK ENDING OOTOBER 9, 1895 Coffey county-T. N. Bell, clerk. HWIFER-Taken up by U. S. Grant, In Pleasant
tp., September 23, 1895 , one ilight red yearling helfer, small white spots on belly, crop off left ear, de
horned; no other marks or hrands.

## Hantur WEL MACHIMERY Mors



ST. LOUIS

## WEL":"CO.

GREAT WESTERN MFG. CO., AGENTS, Leavenworth, Kas., and Kansas City, Mo.

TEOB. B. BHILLINGLAW, Real Estate and Rentai


## German Hair Restorer

N.H.F.-NEVER HAS FAILEDBaldness, Dandruff and Falling Out of Hair.

W, F, RIGHTUIRE, GERMAN MEDICAL CO., Topeka, Kas.

## CENTROPOLIS HOTEL.

Aifth and Grand Ave., Kansas City, Mo. A strictly first-class house at moderate rates. Cen-
trai location. Half hock from newamillon. doilar
court house and half million dollar ilty hall. On court house and halp million dollar olty hall. On
direct Fifth street cable line from Unon depot and
 Lighted by electricity. Rates, 82 p.
with bath, and pariors, 82.50 per day.
E. K. CRILEY \& CO., Proprietors.

## Morgan Sanitarium,


is a permanently well established INVALID's
HOME for the treatment of MALIGNANT OHRONIC and SURGICAL DISEASES. ed and ventilated, with ample room for the
comfortablecare of all patifents Ourspecialties DISEASES. CANGERS and TUMMORS SUCcessfully removed with the MORGAN CAN-
OER ANTIDOTE. We are treating daily with universal success, Chronic Catarrh, Dyspepsia,
DISEAAES of WOMEN, Rheumatism, PR1les,
Fistula, DISEASES of the LIVER and KiD. NEXS, Hydrocele, Varicocele, Rupture (Her-
Nia, CURED in 30 days without detention from
niasiness. Also Deafnes, Hair-lip, Cross Eyes,
bust business. Also Deafness, Hair-1ip, Cross Eyes,
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## The Poultry Hard

## WAR ON LICE.

Editor Kansas Farmer:-It may seem strange to some, for a man like myself to keep down lice in the poultry business chrough the press-to now cumstances sometimes make changes. Things may be just so that we canno put into practice what we preach. Tha was the case with me. It came about in this way: Through May and June, my took all my time to care for him, unti: his death, July 5. Then my farm work was so far behind that I had to look after it so all this time, the very worst time themselves. After I had got things Httle caught up, I was passing through my hennery one day, and happened to thing crawling on my hand. I looked and behold, my hand was just covere with lice. I looked on the roosting-poles and 'they were just covered with re mites. Now my roosts are fixed so tha they do not touch the bullding, so there was no chance for the lice to get to the
bullding. I commienced to prepare for building.
war at once. I took my oil can and prepared my kerosene emulsion, by put ting a half gallon of water on the stove In this I put a bar of soap. When the water was bolling and the soap dissolved, I took it off the stove and put in
a quart of coal oll. I stirred this for half an hour, so as to get the oil and wate well mixed. I caught my birds all up
that night, and the next morning warmed five gallons of water just a 11 t tle warm, and in this I put the emulsion and stirred this well. I then took each bird and dippedit, and kept stirring the water, so that dif there was any oll tha was not well mixed it could not come to hennery, cleaned' things up and shut the quarters for a roosting-place. I got rla of the mites very successfully
Stark, Kas.
POULTRY-HOUSE PLAN.
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Given Satisfaction.
I send you herewith a drawing of the handiest and best all-purpose poulsized house, 28 feet long and 20 feet wide, with hall 4 feet wide running lengthways through the center. It is large enough to house eight differen
breeds of poultry in the breeding season with from ten to twelve fowls in each pen. The house is divided up in leaving 7x8 feet for each ride of aisle, $6 \times 6$-inch sills can each room. The stone or blocks set in the ground. Use $4 \times 4 \mathrm{~s}$ for up-and-down studdıng spiked for floor joist, 20 feet apart. Use $2 \times 6 \mathrm{~s}$ up-and-down posts. Floor with to mon inch flooring. The center posts, $4 \times 4 \mathrm{~s}$, are spiked on top of sills 4 fee apart each way, leaving a 4 -foot aisle on top of posts are $2 \times 4 \mathrm{~s}$ and the rafter 2x4s. For siding, drop siding is best. inside of shouse should be plastered with cement plaster. When plastered it is easy to rid of lice or mites that so much infest cracks in hen houses, and the plastering can be easily whitewashed and swept off clean.

view of poultry house.
The partitions and inside doors should all be wire poultry-netting fastened on strong frames so that all season is over and the whole house be used in one or two parts, one on each side.
There should be no roosts to perch on where the large breeds are kept. The floor covered with straw three or four inches thick makes the best roost for large bresds; they will do better and never have bumble foot. The straw should be swept out
Almost any sized windows can be
used. The upper windows are halt the lower size. No more windows should be used than the diagram
shows, as too much glass light is injurious to poultry.
The yards outside should be 10 feet wide and at least 100 feet long. To get four yards 10 feet wide on each side of house the corner pens must be brought out 6 feet on each corner of house. This leaves 4 feet of house for each of outside pens. These pens
should also be bedded with straw or litter of some kind from 3 to 5 inches deep, and all grain fed should be most of their time. The samens work most of their time. The same plan is also the very best for a hog house, exlow, I have a house of this kind my farm and it gives perfect satisfac-tion.-T. E. Orth, in Breeders' Gazette.

> Selling Eggs by Weight.

Until the time arrives when eggs are sold by weight, both the poultryman and the consumer will be cheated. The consumer who buys his eggs by the dozen never pays the same price. He has the advautage to-day and loses re based on weight, the sales can be as easily on weight, the sales can be are now sold by weight when sales are made wholesale, though retail purchasers often pay dearly for allowing deliveries based upon bushel measures that have slippery bottoms, all in which the articles are "artistically arranged," with a view of filling the measure with the lewest potatoes. Farm and Fireside.

Poultry in the Barnyard
It is best to give the hens free range, but they should never be allowed in mportant to have a place it is as hens as for the horses and cattle. It is not creditable to farmers that their hens lay in the horse troughs or haymows. If the poultryhouse is clean,
and suitable nests are provided, there is no necessity for the hens laying elsewhere. In favor of the hens, it may be mentioned that they often re ort to the barn because the poultry yard, howeeter is not the place for poultry, but for larger stock.-Farm and Fireside.

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